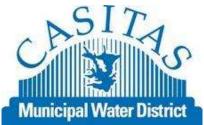
Safety Data Sheets

All Locations



District Maintenance Yard

10/16/2020



Safety Data Sheet Index

Binder: District Maintenance Yard - All Locations

Product Name	CAS Number	Manufacturer	Version Date	Page
Acetone - ACETONE		SUNNYSIDE CORPORATION	03/11/2015	6
Acid Encapsulating Absorbents - PIG Acid Encapsulating / Neutralizing Absorbents (MSD- 151)		NEW PIG CORPORATION	05/27/2019	18
AF79 Concentrate - AF79 Concentrate		BETCO CORPORATION	02/18/2019	27
Ansulex (fire extinguisher) - ANSULEX LPH R- 102 LIQUID AGENT Stored Pressure Extinguisher		Tyco Fire Protection Products	07/05/2017	40
Anti-Freeze/Coolant - TEXACO ANTI- FREEZE/COOLANT		Chevron Products Company - A Division of Chevron U.S. A. Inc.	09/21/2007	41
Antibacterial Hand Soap - 1 GL: Clear-Tone Antibacterial Hand Soap		WAXIE SANITARY SUPPLY	04/27/2015	42
Automatic Transmission Fluid - Marathon Petroleum Dexron VI Automatic Transmission Fluid		Marathon Petroleum Company LP	05/27/2015	43
BLUE DEF DIESEL EXHAUST FLUID - BlueDEF Diesel Exhaust Fluid	57-13-6	Old World Industries, LLC	06/01/2018	53
Bond Plex Paint - BOND-PLEX Water Based Coating Extra White		THE SHERWIN-WILLIAMS COMPANY	11/28/2019	54
Carboguard 691 Part A - CARBOGUARD 691 PART A		Carboline Company	05/30/2015	66
Chevron Delo 400 - Delo 400 LE SAE 15W-40	68649-42-3	Chevron Products Company a division of Chevron U.S.A. Inc.	01/20/2020	67
CLEANTRAXX Herbicide - CLEANTRAXX Herbicide		Dow AgroSciences LLC	05/14/2015	74
Contact Cement - Original Contact Cement Bottle		DAP Products Inc.	03/06/2019	87
Decon's Ethanol, 190 Proof - Decon's Ethanol, 190 Proof	64-17-5	Decon Laboratories Inc.	05/01/2018	88
Diesel - DIESEL FUEL No. 2		Chevron Products Company	06/04/2019	100
Diesel fuel NO 2 - DIESEL FUEL No. 2		Chevron Products Company	06/04/2019	111
Direx 4L - DuPont Direx 4L Herbicide		DuPont	11/01/2012	122
Dow Electrical Insulating Compound - DOW CORNING 4 ELECTRICAL INSULATING COMPOUND		Dow Corning Corporation	09/14/2017	123

Product Name	CAS Number	Manufacturer	Version Date	Page
Drive Train Fluid - Chevron Drive Train Fluid - MP		Chevron Products Company a division of Chevron U.S.A. Inc.	08/27/2014	124
Epoxy Mastic Alum II Part A Epoxy Mastic Aluminum II - 100 (Part A)		THE SHERWIN-WILLIAMS COMPANY	09/08/2017	125
Epoxy Mastic Alum II Part B Epoxy Mastic Aluminum II (Part B) Hardener		THE SHERWIN-WILLIAMS COMPANY	06/10/2019	126
Fuel Additive-2 Cycle - FUEL ADDITIVE – 2 CYCLE AIR COOLED ENGINE OIL		Champion Brands LLC	04/10/2008	127
G-Force Cleaner - G-FORCE WASHROOM CLEANER		The Butcher Company	01/23/2004	132
Gasoline - CHEVRON and TEXACO MID- GRADE UNLEADED GASOLINES	86290-81-5	Chevron Products Company	12/10/2018	133
Glazing - 33 Window Glazing		DAP Products Inc.	09/06/2018	138
Gojo Hand Cleaner - GOJO ORIGINAL FORMULA. Hand Cleaner		GOJO Industries, Inc.	02/28/2018	144
Gorilla Glue - Gorilla Glue		Gorilla Glue Europe Limited	05/21/2019	163
Green Earth Glass Cleaner - Green Earth Glass Cleaner		BETCO CORPORATION	10/11/2018	171
Green Earth Peroxide Cleaner - Green Earth Peroxide Cleaner		BETCO CORPORATION	01/30/2017	181
Guardtop Crackfiller - Guard Top Crack Filler		Guardtop L.L.C	12/24/2014	182
Hi-Solids Polyurethane 250 Part S Extra White - Hi-Solids Polyurethane 250 (Part S) Extra White		THE SHERWIN-WILLIAMS COMPANY	11/28/2019	183
Hi-Solids Polyurethane Activator (Part T) - Hi- Solids Polyurethane Activator (Part T)		THE SHERWIN-WILLIAMS COMPANY	11/30/2019	184
Hydraulic Oil AW - Chevron Hydraulic Oil AW ISO 32		Steris Corporation	12/07/2018	199
Karmex DF Herbicide - DuPont KARMEX DF HERBICIDE		DuPont	02/14/2011	200
Latex Base Waterproofer - Latex Base DRYLOK Masonry Waterproofer		UNITED GILSONITE LABORATORIES	06/07/2018	210
Latex Caulk - Alex Plus Acrylic Latex Caulk Plus Silicone - All Colors		DAP Products Inc.	10/23/2018	211
Lemon Fields II Disinfectant - LEMON FIELDS II DISINFECTANT CLEANER		JohnsonDiversey	07/10/2003	212
Liquid Adhesive - POLYKEN 1027 LIQUID ADHESIVE		Covalence Corrosion Protection Group	06/02/2006	213
Liquid Nails - AHE60912TN0 LN-609 LIQUID NAILS PANEL & FOAM ADHESIVE		Macco Adhesives	08/21/2007	214
LITHOPLEX RT Grease No. 2 - CITGO Lithoplex RT Grease No. 2		CITGO Petroleum Corporation	08/08/2019	215

Product Name	CAS Number	Manufacturer	Version Date	Page
Look Glass Cleaner - Look NA Glass & Multi- Surface Cleaner		Diversey, Inc.	08/06/2015	227
Loxon 7% Siloxane Water Repellent - LOXON 7% Siloxane Water Repellent		THE SHERWIN-WILLIAMS COMPANY	09/09/2017	228
Macropoxy Part A - MACROPOXY 267 Mio Epoxy PART A Grey		THE SHERWIN-WILLIAMS COMPANY	11/28/2019	229
Macropoxy Part B - MACROPOXY 267 Mio Epoxy PART B Hardener		THE SHERWIN-WILLIAMS COMPANY	12/01/2019	230
Misty Slip Shot - Misty Slip Shot II		AMREP, Inc.	12/05/2014	231
NO-OX-ID A - NO-OX-ID A		Sanchem, Inc.	12/05/2018	232
Oxygen - Oxygen	7782-44-7	Air Liquide America Specialty Gases LLC	08/07/2014	239
P.C.Q. Pelleted Rodent Bait - P.C.Q. PELLETED RODENT BAIT		Bell Laboratories, Inc.	01/01/2016	240
P.C.Q. Rodenticide - CA 24c - P.C.Q. Rodenticide-CA 24c		Bell Laboratories, Inc.	12/01/2010	241
pH 7Q Detergent - pH7Q		BETCO CORPORATION	11/19/2019	243
Phosphoric Acid 7-75% - PHOSPHORIC ACID 7 - 75% (v/v) Aqueous Solutions	7664-38-2	Ricca Chemical Company LLC	03/12/2013	255
Polyseamseal Paintable Acrylic - POLYSEAMSEAL PAINTABLE ACRYLIC w/ silicone CAULK-CLEAR		OSI SEALANTS, INC.	01/24/2001	256
Pourstone Anchoring Cement - POURSTONE ANCHORING CEMENT		Custom Building Products, Inc.	02/27/2004	260
Poxy Putty - Ultra-Strength Poxy Putty 1124 Base		Permalite Plastics Corp	01/01/1985	266
Prestone Starting Fluid - Prestone Starting Fluid		Prestone Products Corporation	11/22/2019	270
Primer for PVC - WELD-ON P-70 Low VOC Primer for PVC and CPVC Plastic Pipe		IPS Corporation	01/01/2019	271
PVC Cement - WELD-ON 711 Low VOC PVC Plastic Pipe Cements		IPS Corporation	07/01/2015	273
Rodenticide - FASTRAC WATER RESISTANT BLOX RODENTICIDE		Bell Laboratories, Inc.	05/01/2017	275
Roundup Pro Herbicide - ROUNDUP PRO Herbicide		Monsanto Company	10/19/2015	276
Sevin Insecticide - GardenTech Sevin Insect Killer Ready To Spray		TechPac, LLC.	02/15/2018	285
Shellzone All-Season Antifreeze/Coolant Concentrate - Shellzone All-Season Antifreeze/Coolant Concentrate		Shell Oil Products US	02/05/2014	286
Sikaflex 2C,NS&SL-Part B - Sikaflex 2C NS EZ		SIKA CANADA INC.	02/01/2015	294

Product Name	CAS Number	Manufacturer	Version Date	Page
MIX PART B				
Sikaflex 2CSL-Part A - Sikaflex-2c SL Part A limestone		SIKA CORPORATION	02/09/2017	299
Sodium Bisulfite - Sodium Bisulfite	7631-90-5	Science Stuff Inc	06/19/2013	310
Sodium Hypochlorite - SODIUM HYPOCHLORITE (EPA)		Occidental Chemical Corporation	04/01/2016	311
Starting Fluid - Johnsen's Starting Fluid		Technical Chemical Company	05/17/2013	327
Tecnu Outdoor Skin Cleanser - Tecnu Original Outdoor Skin Cleanser		Tec Laboratories, Inc.	10/19/2018	328
Thoro Thorite - Thorite		Thoro Consumer Products	07/01/2007	333
Tireseal - Tireseal		Texas Refinery Corporation	04/09/2018	334
Titebond Wood Glue - Titebond Original Wood Glue		Franklin International	04/24/2018	340
Tree-age - TREE-äge G4 Insecticide		Arborjet, Inc.	04/08/2016	349
Water - Sterile Water	7732-18-5	Bio-Rad Laboratories, Life Science Group	01/04/2017	361
Water Thinned Paint 170 - SUPER SPEC LATEX HOUSE AND TRIM PAINT ULTRA BASE		Benjamin Moore & Co.	07/16/2018	362
Water Thinned Paint 281 - SUPER SPEC INTERIOR 100% ACRYLIC SEMI-GLOSS ENAMEL DEEP BASE		Benjamin Moore & Co	04/09/2018	363
Water-Jel Blankets/Burn dressings - Water-Jel Blankets and Burn Dressings		WATER-JEL TECHNOLOGIES	02/02/2015	364

Product Number 840

Issuing Date No data available

Revision Date 03-11-2015

Revision Number 2

SAFETY DATA SHEET



The supplier identified below generated this SDS using the UL SDS template. UL did not test, certify, or approve the substance described in this SDS, and all information in this SDS was provided by the supplier or was reproduced from publically available regulatory data sources. UL makes no representations or warranties regarding the completeness or accuracy of the information in this SDS and disclaims all liability in connection with the use of this information or the substance described in this SDS. The layout, appearance and format of this SDS is © 2014 UL LLC. All rights reserved.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier	
Product Name	Acetone
Other means of identification	
Synonyms	None
Recommended use of the chemical	and restrictions on use
Recommended Use	Multi-purpose solvent
Uses advised against	No information available
Details of the supplier of the safety	data sheet
Supplier Name Supplier Address Supplier Phone Number	Sunnyside Corporation 225 Carpenter Avenue Wheeling IL 60090 US Phone:8003238611
	Fax:8475419043
Supplier Email Emergency telephone number	sscontact@sunnysidecorp.com Chem Trec 8004249300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements



Signal word	Danger	Emergency Overview	
Hazard Statements Causes serious eye irritation May cause drowsiness or dizziness Highly flammable liquid and vapor			
Appearance Clear		Physical State Liquid	Odor Pungen

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Keep cool

Precautionary Statements - Response

Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity



Other information

May be harmful if inhaled PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Acetone	67-64-1	60 - 100	*

The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES		
First aid measures		
General Advice	Show this safety data sheet to the doctor in attendance.	
Eye Contact	If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.	
Skin Contact	In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen.	
Ingestion	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.	
Most important symptoms and e	effects, both acute and delayed	
Most Important Symptoms and Effects	Burning sensation. Drowsiness. Dizziness.	
Indication of any immediate medical attention and special treatment needed		
Notes to Physician	Treat symptomatically.	



Page 3/12

5. FIRE-FIGHTING MEASURES Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. **Unsuitable Extinguishing Media** CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient. Specific Hazards Arising from the Chemical Vapors can form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Flammable Liquid: I-B **Uniform Fire Code** Irritant: Liquid **Hazardous Combustion Products** Carbon oxides. Explosion Data Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes. Protective equipment and precautions for firefighters Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.
Environmental Precautions	
Environmental Precautions Methods and material for containm	Prevent entry into waterways, sewers, basements or confined areas.
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for cleaning up	Use clean non-sparking tools to collect absorbed material. Soak up with inert absorbent material. Dike far ahead of liquid spill for later disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Conditions for safe storage, includi	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers.
Incompatible Products	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone	STEL = 750 ppm	TWA: 1000 ppm	IDLH: 2500 ppm 10% LEL
67-64-1	TWA: 500 ppm	TWA: 2400 mg/m ³ (vacated) TWA: 1800 mg/m ³	TWA: 250 ppm TWA: 590 mg/m ³
		(vacated) TWA: 1000 mg/m ² (vacated) TWA: 750 ppm	TWA. 390 mg/m²
		(vacated) STEL: 1000 ppm	
		(vacated) STEL: 2400 mg/m ³	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tight sealing safety goggles.
Skin and Body Protection	Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.



Page 5/12

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Appearance Color
Property pH Melting / freezing point Boiling point / boiling range Flash Point Evaporation Rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit Lower flammability limit Vapor pressure Vapor density Specific Gravity Water Solubility Solubility in other solvents Partition coefficient: n-octanol/wa Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties
Oxidizing Properties

Other Information

Softening Point VOC Content (%) Particle Size Particle Size Distribution

Values N/A No data available 56 °C / 133 °F -18 C / 0 F No data available N/A No data available 2.5% @ 77 °F 213 mmHg @ 75 °F No data available No data available Soluble in water No data available terNo data available 869 °F No data available No data available No data available No data available No data available

Liquid Clear

Colorless

No data available Exempt No data available Odor Odor Threshold Pungent No information available

Remarks/ Method

None known None known None known None known None known

None known None known None known None known None known None known None known None known

Page 6/12

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Caustics, amines, alkanolamines, ammonia, strong oxidizing agents and chlorinated compounds.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available. May cause drownsiness and dizziness based on components. May cause irritation of respiratory tract.
Eye Contact	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. May cause redness, itching, and pain. May cause temporary eye irritation.
Skin Contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	-	-	= 50100 mg/m ³ (Rat) 8 h
67-64-1			

Information on toxicological effects

Symptoms

May cause redness and tearing of the eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure



Sensitization	No information available.	
Mutagenic Effects	No information available.	
Carcinogenicity	Contains no ingredient listed as a carcinogen.	
Reproductive Toxicity	No information available.	
STOT - single exposure	No information available.	
STOT - repeated exposure	No information available.	
Chronic Toxicity	No known effect based on information supplied.	
Target Organ Effects	Eyes. Central Nervous System (CNS). Respiratory system. Skin.	
Aspiration Hazard	No information available.	

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist)

100.20 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Chemical Name	Log Pow
Acetone	-0.24
67-64-1	

Other adverse effects

No information available.



13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
Contaminated Packaging	Dispose of contents/containers in accordance with local regulations.

Contaminated Packaging

US EPA Waste Number D001 U002

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetone				U002
67-64-1				

California Hazardous Waste Codes 212

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Acetone 67-64-1	Ignitable

14. TRANSPORT INFORMATION

DOT

UN-No. Proper Shipping Name Hazard Class Packing Group Description	UN1090 ACETONE 3 II UN1090, ACETONE, 3, II
<u>TDG</u> UN-No. Proper Shipping Name Hazard Class Packing Group Description	UN1090 ACETONE 3 II UN1090, ACETONE, 3, II
MEX_ UN-No. Proper Shipping Name Hazard Class Packing Group Description	UN1090 ACETONE 3 II UN1090 ACETONE, 3, II
ICAO UN-No. Proper Shipping Name Hazard Class Packing Group Description	UN1090 ACETONE 3 II UN1090, ACETONE, 3, II
IATA UN-No. Proper Shipping Name Hazard Class	UN1090 ACETONE 3

Page 9/12

Packing Group Description	II UN1090, ACETONE, 3, II
IMDG/IMO UN-No. Proper Shipping Name Hazard Class Packing Group EmS No. Description	UN1090 ACETONE 3 II F-E, S-D UN1090, ACETONE, 3, II, FP -18C
<u>RID</u> UN-No. Proper Shipping Name Hazard Class Packing Group Classification code Description	UN1090 ACETONE 3 II F1 UN1090 ACETONE, 3, II
ADR UN-No. Proper Shipping Name Hazard Class Packing Group Classification code Description	UN1090 ACETONE 3 II F1 UN1090 ACETONE, 3, II
ADN UN-No. Proper Shipping Name Hazard Class Packing Group Classification code Description Hazard Labels Limited Quantity Ventilation	UN1090 ACETONE 3 II F1 UN1090 ACETONE, 3, II 3 1 L VE01

15. REGULATORY INFORMATION

International Inventories

TSCA DSL

Complies All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No



Page 10/12

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<u>CERCLA</u>

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

	Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
	Acetone	5000 lb		RQ= 2270 kg final RQ
	67-64-1			RQ= 5000 lb final RQ
1	IC Otata Damulatiana			

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Acetone	Х	X	Х	Х	
67-64-1					

International Regulations

Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Acetone		Mexico: TWA= 1000 ppm
67-64-1(60 - 100)		Mexico: TWA= 2400 mg/m ³
		Mexico: STEL= 1260 ppm
		Mexico: STEL= 3000 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class B2 - Flammable liquid D2B - Toxic materials



16. OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 3	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazards 2	Flammability 3	Physical Hazard 0	Personal Protection



Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
Revision Date	15-Sep-2014
Revision Note	No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet



GRACE

Material Safety Data Sheet

Printing date 02/06/2013

Version Number 1.2

Reviewed on 02/06/2013

1 Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name: *Bituthene Mastic*

MSDS ID Number: M-85912

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

W.R. Grace & Co. -Conn.62 Whittemore AvenueCambridge, MA 02140 USA

Grace Canada, Inc. 294 Clements Road W. Ajax, Ontario L1S 3C6 Canada

Other Country Contact Information:

For products distributed beyond the country Manufacturer/Supplier identified above Consult Section 16 for additional emergency contact information.

Information department:

Environmental Health & Safety USA: +1-617-876-1400 (24 hours) +1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts CAN: 1-905-683-8561 (24 hours)

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Hazardous	components:	
8052-42-4	Asphalt	25-30%
64742-95-6	Solvent naphtha (petroleum), light aromatic	10-20%
95-63-6	1,2,4-trimethylbenzene	10-20%
98-82-8	Isopropylbenzene	0.1-1.0%
1330-20-7	Xylene	0.1-1.0%

3 Hazards identification

Classification of the substance or mixture

Has a narcotizing effect.

The product has to be labeled in accordance with applicable regulations.

Information concerning hazards for human and environment:

May produce local skin tumors

Irritating to respiratory system.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

(Cont. on page 2)

Version Number 1.2

Reviewed on 02/06/2013

Page 2/9

Trade name: Bituthene Mastic

(Cont. from page 1) Vapors may cause drowsiness and dizziness Safety phrases: Do not breathe gas/fumes/vapor/spray. In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. Use appropriate container to avoid environmental contamination. See Section 13 for disposal information. Keep away from sources of ignition - No smoking. Hazard description: Combusible Caution! Inhalation: Vapors concentrations in poorly ventilated areas can cause a burning sensation, shortness of breath, headache, nausea, coughing and wheezing. Prolonged or repeated overexposure may result in fluid in the lungs, chemical pneumonia and serious damage to lung tissue and respiratory tract. Absorption through the lungs may cause symptoms similar to those identified under ingestion. Causes respiratory tract irritation. Eve Contact: Causes eye irritation. **Skin Contact:** May produce local skin tumors. May be irritating to the skin on prolonged contact Skin Absorption: Harmful if absorbed through the skin. **Ingestion:** Chemicals contained in this product can affect the skin, heart, brain, liver, kidneys, lungs and spleen. This material may be harmful or fatal if swallowed. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis. NFPA ratings (scale 0 - 4) Health = 2Fire = 2Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH*2Health = *2FIRE2Flammability = 2REACTIVITY 0Reactivity = 0

4 First aid measures

After inhalation:

If symptoms develop, supply fresh air. If required, provide artificial respiration and seek immediate medical treatment.

After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

(Cont. on page 3)

Version Number 1.2

Reviewed on 02/06/2013

Trade name: Bituthene Mastic

(Cont. from page 2)

After eye contact:

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

After swallowing: Do not induce vomiting; immediately call for medical help.

5 Firefighting measures

Special hazards arising from the substance or mixture No further relevant information available.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Dispose contaminated material as waste according to section 13 of the MSDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling

Open and handle receptacle with care.

Avoid contact with eyes, skin and clothing.

Do not take internally. Practice good personal hygiene to avoid ingestion.Use only with adequate ventilation.Wash clothing before reuse. Do not apply where odors may penetrate living areas. To avoid skin contact, use gloves or barrier creams. Wear work clothes with long sleeves if skin contact is possible. Promptly cleanse hands with waterless hand cleaner, clean fingernails and wash withsoap and water after handling. Do not use solvents to clean skin.FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

Flammable mixtures with air can be formed in emptied containers. Do not puncture, cut, drill, heat or weld uncleaned drums.

(Cont. on page 4)

Version Number 1.2

Reviewed on 02/06/2013

Trade name: Bituthene Mastic

(Cont. from page 3)

Information about protection against explosions and fires:



Keep ignition sources away - Do not smoke.

Empty containers may retain hazardous residue, both liquid and vapor.

Storage:

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Additional information about design of teeninear systems. No further data, see fem 7.
Components with limit values that require monitoring at the workplace:
8052-42-4 Asphalt
REL Short-term value: C 5* mg/m ³
*15-min; See Pocket Guide App. A
TLV 0.5* mg/m ³
*inh. fraction; as benzene-soluble aerosol; BEIp
95-63-6 1,2,4-trimethylbenzene
REL 125 mg/m ³ , 25 ppm
TLV 123 mg/m ³ , 25 ppm
Ingredients with biological limit values:
8052-42-4 Asphalt
BEI Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
Additional information: The lists that were valid during the creation were used as basis.
Personal protective equipment:
General protective and hygienic measures: Avoid contact with the eyes and skin.
Breathing equipment: Respiratory protection is not normally required. If exposures exceed PELs use a NIOSH approved organic vapor respirator.
In case of brief exposure or low pollution use respiratory filter device.
Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.
Material of gloves Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Page 4/9

Version Number 1.2

Reviewed on 02/06/2013

(Cont. from page 4)

Trade name: Bituthene Mastic

Eye protection:



Safety glasses with side shield protection.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.



A face shield should also be worn if there is potential exposure to splash or spray.

Body protection: Protective work clothing

General Information	
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odour threshold:	Not determined.
pH-value (~):	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Flash point:	41 °C (106 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	In use, may form flammable/explosive vapor-air mixture.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.
Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	1.3 g/cm^3 (10.849 lbs/gal)
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

Material Safety Data Sheet

Printing date 02/06/2013

Version Number 1.2

Reviewed on 02/06/2013

Trade name: Bituthene Mastic

		(Cont. from page 5)
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No further relevant information available.	

10 Stability and reactivity

Thermal decomposition: No decomposition if used according to specifications.

Incompatible materials: No further relevant information available.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide Other potentially hazardous products may also be formed.

Additional information: See section 7 for information on handling, storage and conditions to be avoided.

11 Toxicological information

Acute toxicity:

Acutei	UNICITY.		
LD/LC5	0 values rel	evant for classification:	
95-63-61	,2,4-trimet	hylbenzene]
Dermal	LD50	3160 mg/kg (rabbit)	1
		>3500 mg/kg (rat)	
Inhalativ	e LC50/4 h	18 mg/l (rat)	
Primary	irritant eff	ect:	
on the sk	in: May be	irritating to the skin on prolonged contact	
inhalatio	n: Irritating	to respiratory system.	
Ingestior	: Harmful i	f swallowed.	
Addition Has a nan Chemica by inhala swallowe small qua	al Toxicolog recotizing effective ls contained tion may be d. Ingestion antities may	in this product can affect the skin, heart, brain, liver, kidneys, lungs and spleen. Over exposure fatal due to pulmonary edema (fluid in lungs). This material may be harmful or fatal if a may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even result in aspiration pneumonitis. Some harmful effects are also possible through skin absorption.	
		l Agency for Research on Cancer) Human Carcinogenicity: Froup 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable	
8052-42-	4 Asphalt	3	1
9003-55-	8 Styrene-b	utadiene rubber 3	1
	•	(Cont. on page	7)

(Cont. from page 6)

3

Reviewed on 02/06/2013

Material Safety Data Sheet

Printing date 02/06/2013

Version Number 1.2

Trade name: Bituthene Mastic

1330-20-7 Xylene

NTP (National Toxicology Program)

K-Known to be carcinogenic, R-May reasonably be anticipated to be carcinogenic

None of the ingredients is listed.

12 Ecological information

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Ecotoxical effects:

Remark: Toxic for fish

Additional ecological information:

General notes:

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13 Disposal considerations

Waste treatment methods Comply with Federal, State and local regulations.

Recommendation:



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN proper shipping name DOT

Material not regulated (ground or rail)

Special precautions for user

Not applicable.

(Cont. on page 8)

Material Safety Data Sheet

Printing date 02/06/2013

Version Number 1.2

Reviewed on 02/06/2013

Trade name: Bituthene Mastic

15 Regulatory information

(Cont. from page 7)

12,9%

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SARA (Superfund Amendments and Reauthorization Act)

Not applicable.

Transport/Additional information:

DOT

Remarks:

Note: this transportation classification is for over the road shipments. Shipments by other modes need to be evaluated.

Section 302/304 (extremely hazardous substances): None of the ingredients is listed. Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt): 95-63-6 1,2,4-trimethylbenzene SARA Section 312/Tier I & II Hazard Categories: Health Delayed (chronic) Yes Health Immediate (acute) Yes Flammable No Reactive No Pressure No North America Chemical Inventory Status **TSCA (Toxic Substances Control Act - United States):** All ingredients are listed or exempt from listing unless otherwise noted below. **CEPA** (Canadian DSL): All ingredients are listed or exempt from listing unless otherwise noted below. **California Proposition 65** Chemicals known to cause cancer: 98-82-8 Isopropylbenzene Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. **Carcinogenicity Categories**

EPA (Environmental Protection Agency)

98-82-8 Isopropylbenzene

1330-20-7 Xylene

(Cont. on page 9)

CBD

I

Version Number 1.2

Reviewed on 02/06/2013

Trade name: Bituthene Mastic

	(Cont. from pa
TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)	
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 No	
Natural aluminosilicate (Kaolin)	A
Asphalt	A
NIOSH-Cancer (National Institute for Occupational Safety and Health)	
8052-42-4 Asphalt	
OSHA-Cancer (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
Volatile Organic Compounds (VOC) reported per the Emission Standards for Arch	itectural Coatings: 244 g/I
European EINECS	
All ingredients are listed.	
Philippines Inventory of Chemicals and Chemical Substances PICCS	
All ingredients are listed.	
Inventory of Existing Chemical Substances manufactured or imported in China IEC	CSC
All ingredients are listed.	
Australian Inventory of Chemical Substances AICS	
All ingredients are listed.	
Japan Existing and New Chemical Substance List ENCS	
Inventory listing could not be confirmed for one or more substances.	
Korean Existing Chemical Inventory	
All ingredients are listed.	
Non-hazardous Ingredients	
1332-58-7 Natural aluminosilicate (Kaolin)	
9003-55-8 Styrene-butadiene rubber	
64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic	
112945-52-5 Amorphous Silica Dioxide	

16 Other information

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."

The first date of preparation 02/06/2013

Number of revision times and the latest revision date 1.2 / 02/06/2013

SAFETY DATA SHEET



AF79 Concentrate

Section 1. Identification			
GHS product identifier	: AF79 Concentrate		
Product code	: 331		
Other means of identification	: Not available.		
Product type	: Liquid.		
Relevant identified uses of th	ne substance or mixture and uses advised against		
Not applicable.			
Supplier's details	: Betco Corporation 400 Van Camp Road Bowling Green, Ohio 43402 www.betco.com 888-462-3826		
Emergency telephone number (with hours of operation)	: Chemtrec (800) 424-9300 24 hour		
EPA Details	EPA Statement: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criterial and hazard information required for safety data sheets, and for workplace labels of non- pesticide chemicals. Below is the signal word as required on the pesticide label:		
EPA Establishment Number	:		
EPA Registration Number	:		
EPA Signal Word	:		
Section 2. Hazards	s identification		
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and		

federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of nonpesticide chemicals. Please read complete product label.
SERIOUS EYE DAMAGE - Category 1

Classification of the substance or mixture

GHS label elements

Hazard pictograms



Signal word	: Danger
Hazard statements	 Causes severe skin burns and eye damage. Causes serious eye damage. (Previous statements per OSHA.) Corrosive. Causes irreversible eye damage and skin burns.Harmful if swallowed. (Previous statements per EPA)

Precautionary statements Prevention

: Wear eye or face protection: Recommended: safety glasses.

	,	I I	, 0		
Date of issue/Date of revision	: 2/18/2019	Date of previous issue	: No previous validation	Version : 1	1/13
				— P	age 27 of 374

Section 2. Hazards identification

Hazards not otherwise classified	: None known.
Disposal	: Not applicable.
Storage	: Not applicable.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Section 3. Composition/information on ingredients

Substance/mixture
Other means of
identification

: Mixture

Other means	of
identification	

 Not available.
 not available.

Ingredient name	%	CAS number
Alcohols, C9-11, ethoxylated	≥3 - <5	68439-46-3
tetrasodium ethylene diamine tetraacetate	≥1 - <3	64-02-8
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	≥1 - <3	68424-85-1
decyldimethyloctylammonium chloride	>1 - <3	32426-11-2
dimethyldioctylammonium chloride	< 0.5	5538-94-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first	aid measures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 4. First aid measures

Most important symptoms	effects, acute and delayed
Potential acute health effe	ects
Eye contact	: Causes severe eye damage.Causes serious eye damage. (Previous statements per OSHA) Causes irreversible eye damage. (Per EPA)
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. Causes serious eye damage. (Previous statements per OSHA) Causes skin burns. (Per EPA)
Ingestion	: No known significant effects or critical hazards. (Per OSHA) Harmful if swallowed (Per EPA)
Over-exposure signs/sym	ptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate me	edical attention and special treatment needed, if necessary
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media			
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.		
Unsuitable extinguishing media	: None known.		
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.		
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides		
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.		

Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Alcohols, C9-11, ethoxylated	None.
tetrasodium ethylene diamine tetraacetate	None.
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	None.
decyldimethyloctylammonium chloride	None.
dimethyldioctylammonium chloride	None.
(R)-p-mentha-1,8-diene	None.

Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some

Environmental exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: safety glasses
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): disposable vinyl
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Personal protective equipment (Pictograms)	

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Green.
Odor	: Pleasant.
Odor threshold	: Not available.
рН	: 12.5 to 13.5
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: Not applicable. [Product does not sustain combustion.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive	: Not available.
(flammable) limits	
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.019
Solubility	: Easily soluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n-	: Not available.
octanol/water	
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

Section 10. Stability and reactivity

Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: Reactive or incompatible with the following materials: acids
Conditions to avoid	: No specific data.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Alcohols, C9-11, ethoxylated	LD50 Oral	Rat	1378 mg/kg	-
tetrasodium ethylene diamine tetraacetate	LD50 Oral	Rat	10 g/kg	-
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	LD50 Oral	Rat	426 mg/kg	-
(R)-p-mentha-1,8-diene	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg 4400 mg/kg	- -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
tetrasodium ethylene diamine tetraacetate	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	Skin - Severe irritant	Rabbit	-	25 milligrams	-
(R)-p-mentha-1,8-diene	Skin - Mild irritant	Rabbit	-	24 hours 10 Percent	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
(R)-p-mentha-1,8-diene	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Routes of entry anticipated: Oral, Dermal. Routes of entry not anticipated: Inhalation.
Potential acute health effects		
Eye contact	:	Causes severe eye damage.Causes serious eye damage. (Previous statements per OSHA) Causes irreversible eye damage. (Per EPA)
Inhalation	1	No known significant effects or critical hazards.

Date of issue/Date of revision	: 2/18/2019	Date of previous issue	: No previous validation	Version	:1	7/13
					_	

Section 11. Toxicological information

Skin contact	: Causes severe burns. Causes serious eye damage. (Previous statements per OSHA Causes skin burns. (Per EPA)
Ingestion	: No known significant effects or critical hazards. (Per OSHA) Harmful if swallowed (Pe EPA)
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential delayed effects Long term exposure	: Not available.
	Not available.Not available.
Long term exposure Potential immediate	
Long term exposure Potential immediate effects	Not available.Not available.
Long term exposure Potential immediate effects Potential delayed effects	Not available.Not available.
Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff	Not available.Not available.
Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available.	: Not available. : Not available. ects
Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available. General	 Not available. Not available. ects No known significant effects or critical hazards.
Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available. General Carcinogenicity	 Not available. Not available. ects No known significant effects or critical hazards. No known significant effects or critical hazards.
Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available. General Carcinogenicity Mutagenicity	 Not available. Not available. ects No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure	
Alcohols, C9-11, ethoxylated	Acute EC50 5.36 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours	
	Acute EC50 2686 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
	Acute LC50 8500 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
tetrasodium ethylene diamine tetraacetate	Acute LC50 486000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours	
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	Acute EC50 37 ppb Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 64 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours	
	Chronic NOEC 4.15 ppb Fresh water	Daphnia - Daphnia magna	21 days	
	Chronic NOEC 32.2 ppb	Fish - Pimephales promelas	34 days	
dimethyldioctylammonium chloride	Acute EC50 0.1 ppm Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 0.7 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours	
(R)-p-mentha-1,8-diene	Acute EC50 421 µg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute EC50 688 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
tetrasodium ethylene diamine tetraacetate	5.01	1.8	low
(R)-p-mentha-1,8-diene	4.38	-	high

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Section 14. Transport mormation								
	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ		
UN number	UN3082	UN3082	UN3082	UN3082	UN3082	UN3082		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C9-11, ethoxylated, Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C9-11, ethoxylated, Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C9-11, ethoxylated, Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C9-11, ethoxylated, Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C9-11, ethoxylated, Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C9-11, ethoxylated, Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides)		
Transport hazard class(es)	9	9	9	9	9	9		
Packing group	ш	ш	ш	ш	Ш	ш		
Environmental hazards	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.		
Additional information DOT Classification : Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).								
Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.								
	Iexico Classification : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.							
ADR/RID	≤!	 This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1. 4 to 4.1.1.8. 						
		5 kg, provided the	t regulated as a dangerous good when transported in sizes of \leq 5 L or ne packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.					
		5 kg, provided the	duct is not regulated as a dangerous good when transported in sizes of \leq 5 L or rovided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and					
Special precautions for user : Transport within user's prer upright and secure. Ensure the event of an accident or spillag			. Ensure that pers					

10/13

Section 14. Transport information

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

Ŭ	,
U.S. Federal regulations	: TSCA 4(a) proposed test rules: Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides
	TSCA 8(a) PAIR : 2-benzylideneheptanal; benzaldehyde; (2-methoxymethylethoxy) propanol; decanal; 2-methylundecanal; undec-10-enal
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	Clean Water Act (CWA) 311: sodium hydroxide
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification

: SERIOUS EYE DAMAGE - Category 1

Composition/information on ingredients

Name	%	Classification
Alcohols, C9-11, ethoxylated	≤5	EYE IRRITATION - Category 2A
tetrasodium ethylene diamine	≤3	ACUTE TOXICITY (oral) - Category 4
tetraacetate		SERIOUS EYE DAMAGE - Category 1
Quaternary ammonium	≤3	ACUTE TOXICITY (oral) - Category 4
compounds, benzyl-		SKIN CORROSION - Category 1B
C12-16-alkyldimethyl, chlorides		SERIOUS EYE DAMAGE - Category 1
decyldimethyloctylammonium	≤3	ACUTE TOXICITY (oral) - Category 4
chloride		ACUTE TOXICITY (dermal) - Category 3
		SKIN CORROSION - Category 1B
		SERIOUS EYE DAMAGE - Category 1
		CARCINOGENICITY - Category 1B
dimethyldioctylammonium	≤1	ACUTE TOXICITY (oral) - Category 4
chloride		ACUTE TOXICITY (dermal) - Category 3
		SKIN CORROSION - Category 1B
		SERIOUS EYE DAMAGE - Category 1
(\mathbf{D}) = months 1.0 dians	-0.2	CARCINOGENICITY - Category 1B
(R)-p-mentha-1,8-diene	≤0.3	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		SKIN SENSITIZATION - Category 1

State regulations

Massachusetts New York

- : None of the components are listed.
 - : None of the components are listed.

Date of issue/Date of revision	: 2/18/2019	Date of previous issue	: No previous validation	Version	:1	11/13
					F	Page 37 of 374

Section 15. Regulatory information

New Jersey

Pennsylvania

- : The following components are listed: ETHYL ALCOHOL; ALCOHOL
- : The following components are listed: DENATURED ALCOHOL; ETHANOL

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Date of issue/Date of revision	: 2/18/2019	Date of previous issue	: No previous validation	Version	::

1

Section 16. Other information



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

	Classification	Justification	
SERIOUS EYE DAMAGE -	Category 1	Expert judgment	
<u>History</u>			
Date of printing	: 2/18/2019		
Date of issue/Date of revision	: 2/18/2019		
Date of previous issue	: No previous validation		
Version	: 1		
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition of MARPOL = International Convention for the Prever as modified by the Protocol of 1978. ("Marpol" = ma UN = United Nations	oefficient ntion of Pollution From Ships, 1973	
References	: Not available.		

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Product Name: ANSULEX LPH R-102 LIQUID AGENT Stored Pressure Extinguisher CAS Number: Manufacturer: Tyco Fire Protection Products SDS Date: 7/5/2017

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: TEXACO ANTI-FREEZE/COOLANT CAS Number: Manufacturer: Chevron Products Company - A Division of Chevron U.S. A. Inc. SDS Date: 9/21/2007

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: 1 GL: Clear-Tone Antibacterial Hand Soap CAS Number: Manufacturer: WAXIE SANITARY SUPPLY SDS Date: 4/27/2015

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.



SAFETY DATA SHEET

SDS ID NO.: Revision Date 0302MAR019 05/27/2015

1. IDENTIFICATION

Product Name:	Marathon Petroleum Dexron VI Automatic Transmission Fluid	
Synonym:	Marathon Dexron VI ATF; Marathon Dexron-VI ATF	
Product Code:	0302MAR019	
Chemical Family:	Hydrocarbon Mixture	
Recommended Use:	Automatic transmission fluid.	
Restrictions on Use:	All others.	
Manufacturer, Importer, or Responsible Party Name and Address: MARATHON PETROLEUM COMPANY LP 539 South Main Street Findlay, OH 45840		

SDS information: 1-419-421-3070

Emergency Telephone: 1-877-627-5463

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Aspiration toxicity Category 1		
	Aspiration toxicity	Category 1

Hazards Not Otherwise Classified (HNOC) Not applicable.

Label elements

EMERGENCY OVERVIEW

Danger

May be fatal if swallowed and enters airways



Appearance Red Liquid

Physical State Liquid

Odor Petroleum

Precautionary Statements - Prevention

Not applicable.

Precautionary Statements - Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container at an approved waste disposal plant

Additional Information

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Automatic Transmission Fluid (ATF) is a complex mixture of highly refined lubricating oil base stocks and additives. **Composition Information:**

Name	CAS Number	% Concentration
Distillates (petroleum), hydrotreated light	64742-47-8	10-30
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated	134758-95-5	1-5
3-(Decyloxy)tetrahydrothiophene 1,1-dioxide	18760-44-6	1-5

All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

First Aid Measures		
General Advice:	In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).	
Inhalation:	Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear, give oxygen and continue to monitor. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If symptoms occur get medical attention.	
Skin Contact:	Wash skin with plenty of soap and water. If irritation or other symptoms occur get medical attention. Wash contaminated clothing and clean shoes before reuse. Any injection injury from high pressure equipment should be evaluated immediately by a physician as potentially serious (See NOTES TO PHYSICIAN).	
Eye Contact:	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts while flushing. Get medical attention if irritation persists.	
Ingestion:	Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.	
Most important signs and symptoms, both short-term and delayed with overexposure		

Adverse Effects:

May cause nausea and vomiting. Preexisting skin conditions and respiratory disorders may be appravated by exposure to components of this product.

Indication of any immediate medical attention and special treatment needed

SKIN: Leaks or accidents involving high-pressure equipment may inject a stream of material Notes To Physician: through the skin and initially produce an injury that may not appear serious. Only a small puncture wound may appear on the skin surface but, without proper treatment and depending on the nature, original pressure, volume, and location of the injected material, can compromise blood supply to an affected body part. Prompt surgical debridement of the wound may be necessary to prevent irreversible loss of function and/or the affected body part. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES.

> INGESTION: This material represents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

The product is not combustible per the OSHA Hazard Communication Standard, but will ignite and burn at temperatures exceeding the flash point.

Hazardous combustion products

Smoke, carbon monoxide, and other products of incomplete combustion.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge No.

Special protective equipment and precautions for firefighters

Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.

Additional firefighting tactics

Not applicable.

<u>NFPA</u>	Health 1	Flammability 1	Instability 0	Special Hazard -
	6.		SE MEASURES	6
Personal precautions:		Keep public away. Isolate and eva	cuate area. Shut off sou	rce if safe to do so.
Protective equipment:		Use personal protection measures	as recommended in Se	ection 8.
Emergency procedures	::	Advise authorities and National Re entered a water course or sewer. appropriate.		/ 1
Environmental precaut	ions:	Avoid release to the environment.	Avoid subsoil penetratic	n.

Methods and materials for containment:	Prevent further leakage or spillage if safe to do so.
Methods and materials for cleaning up:	Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers.
	7. HANDLING AND STORAGE
Safe Handling Precautions:	Avoid contact with skin, eyes and clothing. Do not swallow. Avoid breathing vapors or mists. Use good personal hygiene practices. Wash thoroughly after handling. Use personal protection measures as recommended in Section 8. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA and consistent state and local requirements.
	High-pressure injection of any material through the skin is a serious medical emergency even though the small entrance wound at the injection site may not initially appear serious. These injection injuries can occur from high-pressure equipment such as paint spray or grease or guns, fuel injectors, or pinhole leaks in hoses or hydraulic lines and should all be considered serious. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES (See First Aid Section 4).
Storage Conditions:	Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials.
Incompatible Materials	Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Distillates (petroleum), hydrotreated light 64742-47-8	200 mg/m ³ TWA (total hydrocarbon vapor) Skin - potential significant contribution to overall exposure by the cutaneous route	-	-	-
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated 134758-95-5	-	-	-	-
3-(Decyloxy)tetrahydrothiophen e 1,1-dioxide 18760-44-6	-	-	-	-
Notes:	The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of those exposure limits were vacated in 1992.			
Engineering measures:	Local or general exhaust required when using at elevated temperatures that generate vapors or mists.			
Personal protective equipment	<u>t</u>			
Eye protection:	Use goggles or face-shield if the potential for splashing exists.			
Skin and body protection:	Wear neoprene, nitrile or PVA gloves to prevent skin contact. Glove suitability is based on workplace conditions and usage. Contact the glove manufacturer for specific advice on glove selection and breakthrough times. Wear appropriate protective clothing.			

Page 4 of 10

Respiratory protection:	Use a NIOSH approved organic vapor chemical cartridge or supplied air respirators when there is the potential for airborne exposures to exceed permissible exposure limits or if excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire fighting.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and c Physical State Appearance Color Odor Odor Threshold	<u>hemical properties</u> Liquid Red Liquid Red Petroleum No data available.
Property	Values (Method)
Melting Point / Freezing Point	No data available.
Initial Boiling Point / Boiling Range	No data available.
Flash Point	> 180 °C / > 356 °F (Cleveland Open-Cup)
Evaporation Rate	No data available.
Flammability (solid, gas)	Not applicable.
Flammability Limit in Air (%):	
Upper Flammability Limit:	No data available.
Lower Flammability Limit:	No data available.
Explosion limits:	No data available.
Vapor Pressure	No data available.
Vapor Density	No data available.
Specific Gravity / Relative Density	0.845-0.855
Water Solubility	No data available.
Solubility in other solvents	No data available.
Partition Coefficient	No data available.
Decomposition temperature	No data available.
pH:	No available data.
Autoignition Temperature	No data available.
Kinematic Viscosity	5.7-6.3 mm2/s @ 100°C / 212°F
Dynamic Viscosity	No data available.
Explosive Properties	No data available.
VOC Content (%)	No data available.
Density Built Density	No data available.
Bulk Density	Not applicable.
Pour Point:	

10. STABILITY AND REACTIVITY

Reactivity	The product is non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Will not occur.
Conditions to avoid	Sources of heat or ignition.
Incompatible Materials	Strong oxidizing agents.

Hazardous decomposition products

None known under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Potential short-term adverse effects from overexposures

Inhalation	Overheating may produce vapors which may cause respiratory irritation, dizziness and nausea.
Eye contact	Exposure to vapor or contact with liquid may cause mild eye irritation, including tearing, stinging, and redness.
Skin contact	Prolonged or repeated exposure may cause dermatitis, folliculitis or oil acne.
Ingestion	May be fatal if swallowed or vomited and enters airways. May cause irritation of the mouth, throat and gastrointestinal tract.

Acute toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Distillates (petroleum), hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated 134758-95-5	-	-	-
3-(Decyloxy)tetrahydrothiophene 1,1-dioxide 18760-44-6	> 10 mL/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

This product is considered to have a low order of acute and chronic oral and dermal toxicity.

Adverse effects related to the physical, chemical and toxicological characteristics

Signs and Symptoms	Nausea Vomiting Repeated or prolonged skin contact may cause drying, reddening, itching
	and cracking.

Sensitization Not expected to be a skin or respiratory sensitizer.

Mutagenic effects None known.

Name	ACGIH (Class)	IARC (Class)	NTP	OSHA
Distillates (petroleum), hydrotreated light 64742-47-8	Not Listed	Not Listed	Not Listed	Not Listed
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated 134758-95-5	Not Listed	Not Listed	Not Listed	Not Listed
-(Decyloxy)tetrahydrothioph ene 1,1-dioxide 18760-44-6	Not Listed	Not Listed	Not Listed	Not Listed

Reproductive toxicity

None known.

Specific Target Organ Toxicity Not classified.

(STOT) - single exposure

Specific Target Organ Toxicity (STOT) - repeated exposure Not classified.

Aspiration hazard

May be fatal if swallowed or vomited and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Distillates (petroleum), hydrotreated light 64742-47-8	-	96-hr LC50 = 2.2 mg/l Bluegill	-	-
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated 134758-95-5	-	-	-	-
3-(Decyloxy)tetrahydrothioph ene 1,1-dioxide 18760-44-6	-	-	-	-

Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility in soil	No information available.
Other adverse effects	No information available.

13. DISPOSAL CONSIDERATIONS

Description of Waste Residues

No information available.

Safe Handling of Wastes

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required.

Disposal of Wastes / Methods of Disposal

The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

Methods of Contaminated Packaging Disposal

Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (49 CFR 172.101): UN Proper Shipping Name: UN/Identification No: Class: Packing Group:

TDG (Canada): UN Proper Shipping Name: Not Regulated Not applicable Not applicable. Not applicable.

Not Regulated

UN/Identification No: Transport Hazard Class(es): Packing Group:

Not applicable. Not applicable. Not applicable.

15. REGULATORY INFORMATION

US Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA	Section	302:
------	---------	------

This product may contain component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
	Substances and TPQS
Distillates (petroleum), hydrotreated light	NA
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated	NA
3-(Decyloxy)tetrahydrothiophene 1,1-dioxide	NA

SARA Section 304:

This product may contain component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	Hazardous Substances RQs
Distillates (petroleum), hydrotreated light	NA
Amines, polyethylenepoly-, reaction products with succinic anhydride	NA
polyisobutenyl derivs., borated	
3-(Decyloxy)tetrahydrothiophene 1,1-dioxide	NA

SARA Section 311/312:

The following EPA hazard categories apply to this product:

Acute Health Hazard

SARA Section 313:

This product may contain component(s), which if in exceedance of the de minimus threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:
Distillates (petroleum), hydrotreated light	None
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated	None
3-(Decyloxy)tetrahydrothiophene 1,1-dioxide	None

State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

Distillates (petroleum), hydrotreated light

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed
Pennsylvania Right-To-Know:	Not Listed
Massachusetts Right-To Know:	Not Listed
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed

Note:		ccording to WHMIS classification criteria.
Canadian Regulatory Information:		classified in accordance with the hazard criteria of the Controlled and the SDS contains all of the information required by those
Canada DSL/NDSL Inventory:	This product and/or its or are exempt.	components are listed either on the Domestic Substances List (DSL)
List of Hazardous Substances:		
New York - Reporting of Releases	s Part 597 -	Not Listed
Illinois - Toxic Air Contaminants:		Not Listed
Substances List:		
New Jersey - Environmental Haza		Not Listed
New Jersey - Special Hazardous	Substances:	Not Listed
Substances:		
Pennsylvania RTK - Special Haza		Not Listed
California - Regulated Carcinoger		Not Listed
Michigan Critical Materials Regist Massachusetts Extraordinarily Ha		Not Listed
Rhode Island Right-To-Know: Michigan Critical Materials Regist	or List:	Not Listed Not Listed
Florida Substance List:		Not Listed
Massachusetts Right-To Know:		Not Listed
Pennsylvania Right-To-Know:		Not Listed
New Jersey Right-To-Know:		Not Listed
California Proposition 65:		Not Listed
Louisiana Right-To-Know:		Not Listed
3-(Decyloxy)tetrahydrothiophene 1,1-	dioxide	
List of Hazardous Substances:		
New York - Reporting of Releases	s Part 597 -	Not Listed
Substances List: Illinois - Toxic Air Contaminants:		Not Listed
New Jersey - Environmental Haza	ardous	Not Listed
New Jersey - Special Hazardous		Not Listed
Substances:		
Pennsylvania RTK - Special Haza	rdous	Not Listed
California - Regulated Carcinoger	IS:	Not Listed
Massachusetts Extraordinarily Ha	zardous Substances:	Not Listed
Michigan Critical Materials Regist	er List:	Not Listed
Rhode Island Right-To-Know:		Not Listed
Florida Substance List:		Not Listed
Massachusetts Right-To-Know:		Not Listed
New Jersey Right-To-Know: Pennsylvania Right-To-Know:		Not Listed Not Listed
California Proposition 65:		Not Listed
Louisiana Right-To-Know:		Not Listed
	roducts with succinic and	hydride polyisobutenyl derivs., borated
List of Hazardous Substances:		
New York - Reporting of Releases	s Part 597 -	Not Listed
Illinois - Toxic Air Contaminants:		Not Listed
Substances List:		
	aluous	
New Jersey - Special Hazardous New Jersey - Environmental Haza		Not Listed Not Listed

16. OTHER INFORMATION

Prepared By

Toxicology and Product Safety

Page 9 of 10

Revision Notes

Revision Date

05/27/2015

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Product Name: BlueDEF Diesel Exhaust Fluid **CAS Number:** 57-13-6 **Manufacturer:** Old World Industries, LLC **SDS Date:** 6/1/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

SAFETY DATA SHEET

B71W211

Section 1. Identification

Product name	: BOND-PLEX Water Based Coating Extra White
Product code	: B71W211
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of t	he substance or mixture and uses advised against
Paint or paint related material.	
Manufacturer	: THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	 US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year
Product Information Telephone Number	: US / Canada: (800) 524-5979 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	: SKIN CORROSION/IRRITATION - Category 2
substance or mixture	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Causes serious eye irritation.
	Causes skin irritation.
	Suspected of causing cancer.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

Date of issue/Date	of revision	: 11/28/2019	Date of previous issue	: 5/24/2019	Version : 12	1/12
B71W211	BOND-PLEX Water Ba Extra White	ased Coating			SHW-85-NA-GHS-US	

Section 2. Hazards identification

Response	: IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.
	Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - <20 ≤10 ≤0.3	1317-65-3 13463-67-7 64742-65-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Extra White

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.	
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person provid aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, plac in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	ling ce
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothi before reuse. Clean shoes thoroughly before reuse.	ng
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed a the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery posit and get medical attention immediately. Maintain an open airway. Loosen tight clothing	ind e ion
Date of issue/Date of revision	: 11/28/2019 Date of previous issue : 5/24/2019 Version : 12	2/12
B71W211 BOND-PLEX V	/ater Based Coating SHW-85-NA-GHS-US	

Section 4. First aid measures

such as a collar, tie, belt or waistband.

Most important symptoms/	effects, acute and delayed
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire-fighting measures

See toxicological information (Section 11)

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	g : None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Date of issue/Date	e of revision	: 11/28/2019	Date of previous issue	: 5/24/2019	Version : 12	3/12
B71W211	BOND-PLEX Water Ba Extra White	ased Coating			SHW-85-NA-GHS-US	

Page 56 of 374

Section 6. Accidental release measures

Personal precautions, protect	ctiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	<u>ont</u>	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Date of issue/Date	of revision	: 11/28/2019	Date of previous issue	: 5/24/2019	Version	:12	4/12
B71W211	BOND-PLEX Water Ba Extra White	sed Coating			SHW-85-	NA-GHS-US	

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Calcium Carbonate	1317-65-3	OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust NIOSH REL (United States, 10/2016). TWA: 5 mg/m ³ 10 hours. Form: Respirable fraction TWA: 10 mg/m ³ 10 hours. Form: Total
Titanium Dioxide	13463-67-7	ACGIH TLV (United States, 3/2019). TWA: 10 mg/m ³ 8 hours. OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust
Heavy Paraffinic Oil	64742-65-0	 OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. ACGIH TLV (United States, 3/2019). TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Titanium dioxide	13463-67-7	CA British Columbia Provincial (Canada, 5/2019). TWA: 3 mg/m ³ 8 hours. Form: Respirable dust TWA: 10 mg/m ³ 8 hours. Form: Total dust CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m ³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m ³ 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. TWA: 10 mg/m ³ 8 hours.

Occupational exposure limits (Mexico)

Extra White

BOND-PLEX Water Based Coating

B71W211

	CAS #	Exposure limits
None.		

Appropriate engineering controls	local exhau	ations generate dust, fui st ventilation or other en ntaminants below any re	gineering controls to	keep worker e		
Environmental exposure controls	they comply cases, fume	from ventilation or work p with the requirements of e scrubbers, filters or en essary to reduce emissio	of environmental prot gineering modification	tection legislations to the proce	on. In sor	me
Date of issue/Date of revision	: 11/28/2019	Date of previous issue	: 5/24/2019	Version	:12	5/12

Section 8. Exposure controls/personal protection

	• •
Individual protection measur	res
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Ap	pea	rance	

Extra White

Decomposition temperature	: Not available. : 11/28/2019 Date of previous issue : 5/24/2019	Version : 12 6/1
Decembra eltien temperature		
Auto-ignition temperature	: Not available.	
octanol/water		
Partition coefficient: n-	: Not available.	
Solubility	: Not available.	
Relative density	: 1.31	
Vapor density	: 1 [Air = 1]	
Vapor pressure	: 2.3 kPa (17.5 mm Hg) [at 20°C]	
Lower and upper explosive (flammable) limits	: Not available.	
Flammability (solid, gas)	: Not available.	
Evaporation rate	: 0.09 (butyl acetate = 1)	
Flash point	: Closed cup: >94°C (>201.2°F)	
Boiling point/boiling range	: 100°C (212°F)	-
Melting point/freezing point	: Not available.	
рН	: 9	
Odor threshold	: Not available.	
Odor	: Not available.	
Color	: Not available.	
Physical state	: Liquid.	

Section 9. Physical and chemical properties

Viscosity	: Kinematic (40°C (104°F)): >0.205 cm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 1.32 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Heavy Paraffinic Oil	LD50 Dermal LD50 Oral		>5000 mg/kg >5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

on : 11/28/2019	Date of previous issue	: 5/24/2019	Version	:12	7/12
B71W211 BOND-PLEX Water Based Coating Extra White			SHW-85-		
	8	8	0	·	8

Section 11. Toxicological information

Specific	target	organ	toxicity	(single	exposure)

Name		Route of exposure	Target organs
Calcium Carbonate	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
Heavy Paraffinic Oil	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effe	ects	
Eye contact	:	Causes serious eye irritation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the p	ohy	sical, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	1	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate ef Short term exposure Potential immediate effects		ets and also chronic effects from short and long term exposure. Not available.
Potential delayed effects		Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health e	ffeo	<u>ets</u>
Not available.		
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	1	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Date of issue/Date of revision		: 11/28/2019 Date of previous issue : 5/24/2019 Version : 12

Date of issue/Date	e of revision	: 11/28/2019	Date of previous issue	: 5/24/2019	Version : 12	8/12	
B71W211	BOND-PLEX Water Ba Extra White	ased Coating			SHW-85-NA-GHS-US		

Section 11. Toxicological information

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Persistence and degradabilit Not available.	ty		
Bioaccumulative potential Not available.			
Mobility in soil Soil/water partition coefficient (Koc)	: Not available.		

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.
	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Date of issue/Da	te of revision	: 11/28/2019	Date of previous issue	: 5/24/2019	Version : 12	9/12
B71W211	BOND-PLEX Wate Extra White	er Based Coating			SHW-85-NA-GHS-U	s

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	UN3082 🥄	UN3082
UN proper shipping name	-	-	-	ENVIRONMENTALL HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Phosphate, Zinc Oxide)	ENVIRONMENTALL HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Phosphate, Zinc Oxide). Marine pollutant (Zinc Phosphate, Zinc Oxide)
Transport hazard class(es)	-	-	-	9 ••••••••••••••••••••••••••••••••••••	9
Packing group	-	-	-		111
Environmental hazards	No.	No.	No.	Yes. 🥄	Yes.
Additional information	-	_	-	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.	This product is no regulated as a dangerous good when transported in sizes of ≤5 L o ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Emergency</u> <u>schedules</u> F-A, S
Special precautior	consid mode suitab to ship of the dange and of	der container sizes. T of transport (sea, air ly for that mode of tr oment, and complian person offering the prous goods must be n all actions in case	The presence of a sh r, etc.), does not indi ansport. All packagin ce with the applicab product for transport trained on all of the	I for informational pur hipping description fo cate that the product ng must be reviewed le regulations is the s . People loading and risks deriving from th ons.	r a particular is packaged for suitability prior sole responsibility unloading
ransport in bulk a o Annex II of MAR ne IBC Code		ailable.			
	Proper Ship ty	shipping name	Not available.Not available.		

Page 63 of 374

Section 14. Transport information

Pollution category

: Not available.

Section 15. Regulatory information

TSCA 5(a)2 proposed significant new use rules: 5-Chloro-2-methylisothiazolinone

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

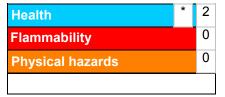
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

: Australia inventory (AICS): Not determined.
China inventory (IECSC): Not determined.
Japan inventory (ENCS): Not determined.
Japan inventory (ISHL): Not determined.
Korea inventory (KECI): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Thailand inventory: Not determined.
Turkey inventory: Not determined.
Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method Calculation method Calculation method

<u>History</u>	
Date of printing	: 11/28/2019
Date of issue/Date of revision	: 11/28/2019
Date of previous issue	: 5/24/2019
Version	: 12

1	Date of issue/Date	of revision	: 11/28/2019	Date of previous issue	: 5/24/2019	Version :	12 11/12
	B71W211	BOND-PLEX Water Ba Extra White	ased Coating			SHW-85-NA	A-GHS-US

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
	as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Product Name: CARBOGUARD 691 PART A CAS Number: Manufacturer: Carboline Company SDS Date: 5/30/2015

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Safety Data Sheet



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Delo 400 LE SAE 15W-40

Product Use:Heavy Duty Motor OilProduct Number(s):219719, 222220, 278058Synonyms:Delo 400 LE SAE 15W-40 ISOCLEAN CertifiedCompany IdentificationChevron Products Companya division of Chevron U.S.A. Inc.6001 Bollinger Canyon Rd.San Ramon, CA 94583United States of Americawww.chevronlubricants.comValue Company

Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887 Health Emergency Chevron Emergency & Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623 Product Information email : lubemsds@chevron.com Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION: Acute aquatic toxicant: Category 3. Chronic aquatic toxicant: Category 3.

Environmental Hazards: Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

Prevention: Avoid release to the environment. **Disposal:** Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 %weight
Zinc alkyl dithiophosphate	68649-42-3	1 - < 2.5 %weight

SECTION 4 FIRST AID MEASURES

1 of 8

Description of first aid measures

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs. If exposure to hydrogen sulfide (H2S) gas is possible during an emergency, wear an approved, positive pressure air-supplying respirator. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing. Hydrogen sulfide has a strong rotten-egg odor. However, with continued exposure and at high levels, H2S may deaden a person's sense of smell. If the rotten egg odor is no longer noticeable, it may not necessarily mean that exposure has stopped. At low levels, hydrogen sulfide causes irritation of the eyes, nose, and throat. Moderate levels can cause headache, dizziness, nausea, and vomiting, as well as coughing and difficulty breathing. Higher levels can cause shock, convulsions, coma, and death. After a serious exposure, symptoms usually begin immediately.

The U.S. National Institute for Occupational Safety and Health (NIOSH) considers air concentrations of hydrogen sulfide gas greater than 100 ppm to be Immediately Dangerous to Life and Health (IDLH).

DELAYED OR OTHER HEALTH EFFECTS: Not classified

Indication of any immediate medical attention and special treatment needed

Note to Physicians: Administration of 100% oxygen and supportive care is the preferred treatment for poisoning by hydrogen sulfide gas. For additional information on H2S, see Chevron MSDS No. 301.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Phosphorus, Zinc, Sulfur.

SECTION 6 ACCIDENTAL RELEASE MEASURES

2 of 8

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. **Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures: Do not breathe gas. Wash thoroughly after handling. Keep out of the reach of children.

Unusual Handling Hazards: Toxic quantities of hydrogen sulfide (H2S) may be present in storage tanks and bulk transport vessels which contain or have contained this material. Persons opening or entering these compartments should first determine if H2S is present. See Exposure Controls/Personal Protection -Section 8. Do not attempt rescue of a person over exposed to H2S without wearing approved supplied-air or self-contained breathing equipment. If there is a potential for exceeding one-half the occupational exposure standard, monitoring of hydrogen sulfide levels is required. Since the sense of smell cannot be relied upon to detect the presence of H2S, the concentration should be measured by the use of fixed or portable devices.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

Respiratory Protection: No respiratory protection is normally required.

If material is heated and emits hydrogen sulfide, determine if airborne concentrations are below the occupational exposure limit for hydrogen sulfide. If not, wear an approved positive pressure air-supplying respirator. For more information on hydrogen sulfide, see Chevron MSDS No. 301. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For airpurifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH		5 mg/m3	10 mg/m3		
Highly refined mineral oil (C15 - C50)	OSHA Z-1		5 mg/m3			

Consult local authorities for appropriate values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Light to Brown **Physical State:** Liquid Odor: Petroleum odor **Odor Threshold:** No data available pH: Not Applicable Vapor Pressure: No data available Vapor Density (Air = 1): No data available **Initial Boiling Point:** No data available Solubility: Soluble in hydrocarbons; insoluble in water Freezing Point: Not Applicable No data available **Melting Point:** 0.877 kg/l @ 15°C (59°F) (Typical) **Density:** Viscosity: 14.60 mm2/s @ 100°C (212°F) (Minimum) **Evaporation Rate:** No data available **Decomposition temperature:** No data available Octanol/Water Partition Coefficient: No data available **FLAMMABLE PROPERTIES:**

Flammability (solid, gas): Not Applicable

Flashpoint: (Cleveland Open Cup) 204 °C (399 °F) (Minimum) Autoignition: No data available Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Not Upper: Applicable

SECTION 10 STABILITY AND REACTIVITY

May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. **Reactivity:** This material is considered stable under normal ambient and anticipated storage and Chemical Stability: handling conditions of temperature and pressure.

Incompatibility With Other Materials: Not applicable

Hazardous Decomposition Products: Alkyl Mercaptans (Elevated temperatures), Hydrogen Sulfide (Elevated temperatures)

Hazardous Polymerization: Hazardous polymerization will not occur.

of 7

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Serious Eye Damage/Irritation: The eye irritation hazard is based on evaluation of data for product components.

Skin Corrosion/Irritation: The skin irritation hazard is based on evaluation of data for product components.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for product components.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for product components.

Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The hazard evaluation is based on data for components or a similar material.

Carcinogenicity: The hazard evaluation is based on data for components or a similar material.

Reproductive Toxicity: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Single Exposure: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Repeated Exposure: The hazard evaluation is based on data for components or a similar material.

ADDITIONAL TOXICOLOGY INFORMATION:

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

The product has not been tested. The statement has been derived from the properties of the individual components.

MOBILITY

No data available.

PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The biodegradability of this material is based on an

5 of 7

evaluation of data for the components or a similar material. The product has not been tested. The statement has been derived from the properties of the individual components.

POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available. Octanol/Water Partition Coefficient: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES: Not applicable

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
	07=PA RTK

The following components of this material are found on the regulatory lists indicated. Zinc alkyl dithiophosphate 06, 07

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (United States).

One or more components does not comply with the following chemical inventory requirements: EINECS (European Union), ENCS (Japan), IECSC (China), TCSI (Taiwan).

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Motor oil)

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

HMIS RATINGS: Health: 0 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: SECTION 02 - Environmental Classification information was added.

SECTION 02 - Hazard Statements information was added.

SECTION 02 - Hazards Otherwise Not Classified information was modified.

SECTION 02 - Precautionary Statements information was added.

SECTION 03 - Composition information was modified.

SECTION 08 - General Considerations information was modified.

SECTION 09 - Physical/Chemical Properties information was deleted.

SECTION 09 - Physical/Chemical Properties information was modified.

SECTION 12 - Ecological Information information was modified.

SECTION 15 - Chemical Inventories information was modified.

SECTION 15 - New Jersey Right To Know information was modified.

SECTION 15 - Regulatory Information information was added.

Revision Date: January 20, 2020

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG - International Maritime Dangerous
Industrial Hygienists	Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health
Cancer	Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



SAFETY DATA SHEET

DOW AGROSCIENCES LLC

Product name: CLEANTRAXX™ Herbicide

Issue Date: 05/14/2015 Print Date: 03/08/2016

DOW AGROSCIENCES LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: CLEANTRAXX™ Herbicide

Recommended use of the chemical and restrictions on use Identified uses: End use herbicide product

COMPANY IDENTIFICATION

DOW AGROSCIENCES LLC 9330 ZIONSVILLE RD INDIANAPOLIS IN 46268-1053 UNITED STATES

Customer Information Number:

800-992-5994 info@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 800-992-5994 Local Emergency Contact: 352-323-3500

2. HAZARDS IDENTIFICATION

Hazard classification

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards

no data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CASRN	Concentration	
Oxyfluorfen	42874-03-3	40.31%	

Penoxsulam	219714-96-2	0.85%
Propylene glycol	57-55-6	>= 0.05 - <= 9.7 %
Balance	Not available	>= 49.14 - <= 58.79 %

4. FIRST AID MEASURES

Description of first aid measures

General advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Ingestion: No emergency medical treatment necessary.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

Unsuitable extinguishing media: no data available

Special hazards arising from the substance or mixture

Hazardous combustion products: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen fluoride. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards: This material does not burn. In a fire situation, residue can burn.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Small spills: Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Dow AgroSciences for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep out of reach of children. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Wash thoroughly after handling. Use with adequate ventilation. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage: Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation Type of listing Value/Notation				
Oxyfluorfen	Dow IHG	TWA	0.2 mg/m3		
Propylene glycol	US WEEL	TWA	10 mg/m3		

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Use safety glasses (with side shields). Skin protection

Hand protection: Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.

Other protection: No precautions other than clean body-covering clothing should be needed.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Appoulation		
Physical state	Liquid.	
Color	Yellow	
Odor	Mild	
Odor Threshold	no data available	
рН	6.1 1% <i>pH Electrode</i> (1% aqueous suspension)	
Melting point/range	Not applicable	
Freezing point	No test data available	
Boiling point (760 mmHg)	No test data available	
Flash point	closed cup > 100 °C (> 212 °F) Closed Cup	
Evaporation Rate (Butyl Acetate = 1)	no data available	
Flammability (solid, gas)	Not Applicable	
Lower explosion limit	No test data available	
Upper explosion limit	No test data available	
Vapor Pressure	No test data available	
Relative Vapor Density (air = 1)	No test data available	
Relative Density (water = 1)	No test data available	
Water solubility	No test data available	
Partition coefficient: n- octanol/water	no data available	
Auto-ignition temperature	No test data available	
Decomposition temperature	No test data available	

Kinematic Viscosity	no data available	
Explosive properties	no data available	
Oxidizing properties	no data available	
Liquid Density	1.177 g/cm3 at 20 °C (68 °F) Digital density meter	
Molecular weight	no data available	

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: no data available

Chemical stability: Thermally stable at recommended temperatures and pressures.

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to avoid: Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid.

Incompatible materials: Avoid contact with: Oxidizers.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide. Hydrogen chloride. Hydrogen fluoride. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Acute toxicity

Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

As product: LD50, Rat, female, > 5,000 mg/kg No deaths occurred at this concentration.

Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: LD50, Rat, male and female, > 5,000 mg/kg No deaths occurred at this concentration.

Acute inhalation toxicity

At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous.

Skin corrosion/irritation

Essentially nonirritating to skin.

Serious eye damage/eye irritation

May cause slight temporary eye irritation. Corneal injury is unlikely.

Sensitization

As product: Did not cause allergic skin reactions when tested in guinea pigs.

Specific Target Organ Systemic Toxicity (Single Exposure)

Product test data not available.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

For the active ingredient(s): In animals, effects have been reported on the following organs: Adrenal gland. Blood. Kidney. Liver. Spleen.

Carcinogenicity

For the active ingredient(s): Oxyfluorfen. Has caused cancer in laboratory animals. Penoxsulam. Did not cause cancer in laboratory animals.

Teratogenicity

For the active ingredient(s): Oxyfluorfen. Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.

Reproductive toxicity

For the active ingredient(s): Oxyfluorfen. In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. Penoxsulam. In animal studies, did not interfere with reproduction.

Mutagenicity

Based on information for component(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

Aspiration Hazard

Product test data not available.

COMPONENTS INFLUENCING TOXICOLOGY:

Oxyfluorfen

Acute inhalation toxicity

At room temperature, exposure to vapor is minimal due to low volatility. No adverse effects are anticipated from single exposure to dust. For respiratory irritation: For narcotic effects: Relevant data not available.

LC50, Rat, 4 Hour, dust/mist, > 3.71 mg/l The LC50 value is greater than the Maximum Attainable Concentration. No deaths occurred at this concentration.

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Aspiration Hazard

Based on available information, aspiration hazard could not be determined.

Penoxsulam

Acute inhalation toxicity

No adverse effects are anticipated from single exposure to dust. Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

Maximum attainable concentration. LC50, Rat, male and female, 4 Hour, dust/mist, > 3.50 mg/l No deaths occurred at this concentration.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

Propylene glycol

Acute inhalation toxicity

Mist may cause irritation of upper respiratory tract (nose and throat). LC50, Rabbit, 2 Hour, Aerosol, 317.042 mg/l No deaths occurred at this concentration.

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

Balance

Acute inhalation toxicity

The LC50 has not been determined.

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

Toxicity

Oxyfluorfen

Acute toxicity to fish

Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species). LC50, Rainbow trout (Oncorhynchus mykiss), static test, 96 Hour, 0.25 mg/l

Acute toxicity to aquatic invertebrates

EC50, water flea Daphnia magna, 48 Hour, 0.072 mg/l

Acute toxicity to algae/aquatic plants

EbC50, diatom Navicula sp., static test, 96 Hour, Biomass, 0.031 mg/l, OECD Test Guideline 201 or Equivalent

Chronic toxicity to fish

NOEC, Pimephales promelas (fathead minnow), flow-through test, 33 d, survival, 0.038 mg/l NOEC, Pimephales promelas (fathead minnow), flow-through test, 265 d, survival, 0.005 mg/l NOEC, Cyprinodon variegatus (sheepshead minnow), flow-through test, 34 d, growth, 0.0047 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, water flea Daphnia magna, flow-through test, 21 d, 0.013 mg/l

Toxicity to Above Ground Organisms

Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg). Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm). LD50, Colinus virginianus (Bobwhite quail), > 2,150 mg/kg LC50, Anas platyrhynchos (Mallard duck), 8 d, > 5,000 mg/kg oral LD50, Apis mellifera (bees), 48 Hour, > 100micrograms/bee contact LD50, Apis mellifera (bees), 48 Hour, > 100.0micrograms/bee dietary LC50, Colinus virginianus (Bobwhite quail), > 5,000 mg/kg

Penoxsulam

Acute toxicity to fish

Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 Hour, > 100 mg/l, OECD Test Guideline 203

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, > 100 mg/l, OECD Test Guideline 202

Acute toxicity to algae/aquatic plants

ErC50, Pseudokirchneriella subcapitata (green algae), static test, 72 Hour, Growth rate inhibition, 0.126 mg/l, OECD Test Guideline 201 EbC50, Lemna minor (duckweed), 14 d, Biomass, 0.00329 mg/l, OECD 221.

Toxicity to bacteria

EC50, activated sludge, 3 Hour, > 1,000 mg/l

Toxicity to Above Ground Organisms

Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg). Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm). oral LD50, Anas platyrhynchos (Mallard duck), mortality, > 2000mg/kg bodyweight. dietary LC50, Colinus virginianus (Bobwhite quail), 8 d, mortality, > 5063mg/kg diet. contact LD50, Apis mellifera (bees), 48 Hour, mortality, > 100µg/bee oral LD50, Apis mellifera (bees), 48 Hour, mortality, > 100µg/bee

Toxicity to soil-dwelling organisms

LC50, Eisenia fetida (earthworms), 14 d, > 1,000 mg/kg NOEC, Eisenia fetida (earthworms), 56 d, 1,000 mg/kg

Propylene glycol

Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 Hour, 40,613 mg/l, OECD Test Guideline 203

Acute toxicity to aquatic invertebrates

LC50, Ceriodaphnia dubia (water flea), static test, 48 Hour, 18,340 mg/l, OECD Test Guideline 202

Acute toxicity to algae/aquatic plants

ErC50, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate inhibition, 19,000 mg/l, OECD Test Guideline 201

Toxicity to bacteria

NOEC, Pseudomonas putida, 18 Hour, > 20,000 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, Ceriodaphnia dubia (water flea), semi-static test, 7 d, number of offspring, 13,020 mg/l

Balance

Acute toxicity to fish No relevant data found.

Persistence and degradability

Oxyfluorfen

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

Theoretical Oxygen Demand: 1.305 mg/mg

Stability in Water (1/2-life)

Hydrolysis, 3.9 d, pH 5 - 9, Half-life Temperature 20 °C

Penoxsulam

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.
10-day Window: Fail
Biodegradation: 14.7 %
Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Photodegradation

Sensitizer: OH radicals Atmospheric half-life: 2.1 Hour Method: Estimated.

Propylene glycol

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Biodegradation may occur under anaerobic conditions (in the absence of oxygen). 10-day Window: Pass **Biodegradation:** 81 % **Exposure time:** 28 d Method: OECD Test Guideline 301F or Equivalent 10-day Window: Not applicable Biodegradation: 96 % Exposure time: 64 d Method: OECD Test Guideline 306 or Equivalent

Theoretical Oxygen Demand: 1.68 mg/mg

Chemical Oxygen Demand: 1.53 mg/mg

Biological oxygen demand (BOD)

Incubation Time	BOD
5 d	69.000 %
10 d	70.000 %
20 d	86.000 %

Photodegradation Atmospheric half-life: 10 Hour Method: Estimated.

Balance

Biodegradability: No relevant data found.

Bioaccumulative potential

Oxyfluorfen

Bioconcentration factor (BCF): 184 - 1,151 Lepomis macrochirus (Bluegill sunfish) 168 Hour

Penoxsulam

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient: n-octanol/water(log Pow):** -0.602 Measured

Propylene glycol

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient: n-octanol/water(log Pow):** -1.07 Measured **Bioconcentration factor (BCF):** 0.09 Estimated.

Balance

Bioaccumulation: No relevant data found.

Mobility in soil

Oxyfluorfen

Expected to be relatively immobile in soil (Koc > 5000). **Partition coefficient(Koc):** 6831

Penoxsulam

Potential for mobility in soil is high (Koc between 50 and 150). **Partition coefficient(Koc):** 73 Measured

Propylene glycol

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process. Potential for mobility in soil is very high (Koc between 0 and 50). **Partition coefficient(Koc):** < 1 Estimated.

Balance

No relevant data found.

13. DISPOSAL CONSIDERATIONS

Disposal methods: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Oxyfluorfen)
UN number	UN 3082
Class	9
Packing group	
Marine pollutant	Oxyfluorfen
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	Consult IMO regulations before transporting ocean bulk
Classification for AIR transport (I	ATA/ICAO):
Proper shipping name	Environmentally hazardous substance, liquid,

	n.o.s.(Oxyfluorfen)
UN number	UN 3082
Class	9
Packing group	III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional

transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312 Acute Health Hazard Chronic Health Hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and
Community Right-to-Know Act of 1986) Section 313
ComponentsCASRN
42874-03-3Oxyfluorfen42874-03-3

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Pennsylvania (Worker and Community Right-To-KnowAct): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

CASRN

57-55-6

Components Propylene glycol

Pennsylvania (Worker and Community Right-To-KnowAct): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

United States TSCA Inventory (TSCA)

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number: 62719-702

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Causes moderate eye irritation

16. OTHER INFORMATION

Hazard Rating System

NFPA

Health	Fire	Reactivity
1	1	1

Revision

Identification Number: 101223680 / A211 / Issue Date: 05/14/2015 / Version: 2.0 DAS Code: GF-2214

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

Dow IHG	Dow Industrial Hygiene Guideline
TWA	8-hr TWA
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

DOW AGROSCIENCES LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDS obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

There was a problem getting the SDS for -

Product Name: Original Contact Cement Bottle CAS Number: Manufacturer: DAP Products Inc. SDS Date: 3/6/2019

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

Safety Data Sheet (SDS)

Section 1: Chemical Product and Company Identification

Cat # 190 Proof - 2816, 2816G, 2801, 2801G, 2805, 2805HC 2805SG, 2705M, 2855, 2855M

Part Name: Decon's Ethanol, 190 Proof

Supplier: Decon Laboratories Inc. 460 Glennie Circle King of Prussia, Pa 19406 SDS Telephone # (610) 755-0800 Emergency Telephone Numbers US Chemtrec: (800) 424-9300 Canada: (703) 527-3887

Identified uses: Laboratory use

Section 2: Hazards Identification:

GHS Classification

Flammable Liquids, Category 2 H225 Eye Irritation, Category 2A H319 Full text of H-phrases: see section 16

Signal Word: DANGER



Hazard and Precautionary Statements

- H225 Highly Flammable liquid and vapor.
- H319 Causes serious eye irritation.
- P210 Keep away from heat, sparks, open flames and hot surfaces no smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303/361/353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water. P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+313: If eye irritation persists get medical advice/attention.

- P403 + P235 Store in a well-ventilated place. Keep cool.
- P243 Take precautionary measures against static discharge.

P241 Use explosion-proof electrical/ventilating/lighting equipment.
 P370 + 378 In case of fire: Use appropriate extinguishing media (See Section 5).
 P403 + P235 Store in a well-ventilated place. Keep cool.
 P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations

Other Hazards

Other Hazards Not Contributing to the Classification: Flammable vapors can accumulate in head space of closed systems. **Unknown Acute Toxicity (GHS-US)** Not available

NFPA Rating

Hazard Ratings:

These ratings are Decon Laboratories Inc.'s own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and list 49).

If no data is listed the information is not available

Health 1 Flammability 3 Reactivity 0

Section 3: Composition/ Information on ingredients

Note: Items listed with a CASRN number have no CAS# available

<u>Mixture</u>

Name	Product identifier	% (w/w)	GHS-US classification
Ethyl alcohol	(CAS No) 64-17-5	92.3 - 94.6	Flam. Liq. 2, H225
	(EC no) 200-578-6		Eye Irrit. 2A, H319
Water	(CAS No) 7732-18-5	5.4 - 7.7	Not classified
	(EC no) 231-791-2		

Section 4: First Aid Measures

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention.

Inhalation: When symptoms occur: go into open air and ventilate suspected area.

Page 2 of 12

Skin Contact: Remove contaminated clothing. Rinse immediately with large amounts of water. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Get medical advice and attention if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye irritation.

Inhalation: Prolonged exposure to liquid may cause a mild irritation.

Skin Contact: Repeated or prolonged skin contact may cause dermatitis and defatting.

Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Ingestion: Ingestion of this product is extremely harmful to human health. Nausea and vomiting, higher exposure causes unconsciousness.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

Section 5: Fire-Fighting Measures

Extinguishing Media

Suitable Extinguishing Media: Alcohol-resistant foam, carbon dioxide, dry chemical, water spray, fog. **Unsuitable Extinguishing Media:** Do not use a heavy water stream. A heavy water stream may spread burning liquid. Water may be ineffective because it may not cool material below its flash point.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Highly flammable liquid and vapor.

Explosion Hazard: May form flammable/explosive vapor-air mixture. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Reactivity: Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Page 3 of 12

Reference to Other Sections

Refer to section 9 for flammability properties.

Section 6: Accidental Release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Avoid all eyes and skin contact and do not breathe vapor and mist. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE). **Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. **Environmental Precautions** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

Section 7: Handling and Storage

Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment.

Storage Conditions: Store in a dry, cool, and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Keep

Page 4 of 12

in fireproof place.

Incompatible Materials: Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.

Specific End Use(s)

Solvent.

Section 8: Exposure Controls / Personal Protection

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Ethyl Alcohol (64-17-5)		
Mexico	OEL TWA (mg/m ³)	1900 mg/m ³
Mexico	OEL TWA (ppm)	1000 ppm
USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to
		Humans
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA IDLH	US IDLH (ppm)	3300 ppm (10% LEL)
Alberta	OEL TWA (mg/m³)	1880 mg/m ³
Alberta	OEL TWA (ppm)	1000 ppm
British Columbia	OEL STEL (ppm)	1000 ppm
Manitoba	OEL STEL (ppm)	1000 ppm
New Brunswick	OEL TWA (mg/m³)	1880 mg/m ³
New Brunswick	OEL TWA (ppm)	1000 ppm
Newfoundland &	OEL STEL (ppm)	1000 ppm
Nova Scotia	OEL STEL (ppm)	1000 ppm
Nunavut	OEL STEL (mg/m³)	2355 mg/m ³
Nunavut	OEL STEL (ppm)	1250 ppm
Nunavut	OEL TWA (mg/m³)	1884 mg/m ³
Nunavut	OEL TWA (ppm)	1000 ppm
Northwest Territories	OEL STEL (mg/m ³)	2355 mg/m ³
Northwest Territories	OEL STEL (ppm)	1250 ppm

Page 5 of 12

Northwest Territories	OEL TWA (mg/m³)	1884 mg/m ³
Northwest Territories	OEL TWA (ppm)	1000 ppm
Ontario	OEL STEL (ppm)	1000 ppm
Prince Edward Island	OEL STEL (ppm)	1000 ppm
Québec	VEMP (mg/m ³)	1880 mg/m ³
Québec	VEMP (ppm)	1000 ppm
Saskatchewan	OEL STEL (ppm)	1250 ppm
Saskatchewan	OEL TWA (ppm)	1000 ppm
Yukon	OEL STEL (mg/m ³)	1900 mg/m ³
Yukon	OEL STEL (ppm)	1000 ppm
Yukon	OEL TWA (mg/m³)	1900 mg/m ³
Yukon	OEL TWA (ppm)	1000 ppm

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide sufficient ventilation to keep vapors below permissible exposure limit. Gas detectors should be used when flammable gases/vapors may be released. Proper grounding procedures to avoid static electricity should be followed.

Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective clothing. Gloves. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Not available

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Use chemically protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Other Information: When using, do not eat, drink, or smoke.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product. Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permiation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

Page 6 of 12

Section 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical state		Liquid
Appearance		Colorless, clear, volatile liquid
Odor		Alcohol
Odor Threshold	:	Not available
рН	:	Not available
Evaporation Rate	:	Not available
Melting Point	:	Not available
Freezing Point	:	-114°F (-173°F)
Boiling Point	:	78 °C (172.4 °F)
Flash Point	:	12.8 °C (55 °F) CC
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available
Lower Flammable Limit	:	3.3 % for Ethanol
Upper Flammable Limit	:	19 % for Ethanol
Vapor Pressure	:	44.6 mm Hg @ 20°C (68°F)
Relative Vapor Density at 20 °C	:	1.59 for Ethanol
Relative Density	:	0.8157 - 0.814
Specific Gravity	:	Not available
Solubility	:	Water: Completely
Partition Coefficient: N-Octanol/Water	:	Not available
Viscosity	:	Not available
Explosion Data – Sensitivity to Mechanical Impact	:	Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	:	Static discharge could act as an ignition source.

Section 10: Stability and Reactivity:

Reactivity:	Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.
Chemical Stability:	Stable at standard temperature and pressure.

Page 7 of 12

Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources.
Incompatible Materials:	Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂).

Section 11: Toxicological Information

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data:

Ethyl Alcohol, 200 Proof (64-17-5)		
LC50 Inhalation Rat	124.7 mg/l/4h	
Ethyl Alcohol, 200 Proof (64-17-5)		
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.	
Skin Corrosion/Irritation: Not classified		
Serious Eye Damage/Irritation: Causes serious eye irrita	ation.	
Respiratory or Skin		
Sensitization: Not		
classified Germ Cell		
Mutagenicity: Not		
classified Teratogenicity:		
Not classified		
Carcinogenicity: Not classified		
Specific Target Organ Toxicity (Repeated Exposure): Not classified		
Reproductive Toxicity: Not classified		
Specific Target Organ Toxicity (Single Exposure): Not classified		
Aspiration Hazard: Not classified		
	Page 8 of 17	

Safety Data Sheet (SDS)

Symptoms/Injuries After Inhalation: Prolonged exposure to liquid may cause a mild irritation. Symptoms/Injuries After Skin Contact: Repeated or prolonged skin contact may cause dermatitis and defatting. Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: This product is adulterated to prevent ingestion. Ingestion of this product is extremely harmful to human health. nausea and vomiting, higher exposure causes unconsciousness.

Chronic Symptoms: None expected under normal conditions of use.

Information on	
Toxicological Effects -	
Ingredient(s) LD50 and	
LC50 Data:	
Ethyl alcohol (64-17-5)	
LD50 Oral Rat	10470 mg/kg
LD50 Dermal Rat	20 ml/kg
LC50 Inhalation Rat	124.7 mg/l/4h
Ethyl alcohol (64-17-5)	
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Section 12: Ecological Information

Toxicity

Ecology - General: Readily bioldegrades. Evaporates to moderate extent. Does not bioaccumulate.

Ethyl alcohol (64-17-5)	
LC50 Fish 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Persistence and Degradability	
Ethyl Alcohol (64-17-5)	
Persistence and Degradability	Not established. May cause long-term adverse effects in the environment.
Bioaccumulative Potential	

Ethvl Alcohol (64-17-5)	
Log Pow	-0.32
Bioaccumulative Potential	Not established.

Page 9 of 12

Mobility in Soil Not available Other Adverse Effects Other Information: Avoid release to the environment.

Section 13: Disposal Considerations

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable

Section 14: Transportation Information

In Accordance with DOT	Nata
Proper Shipping Name	: ETHYL ALCOHOL SOLUTIONS Note:
Hazard Class	Exemptions apply for small
Identification Number	: UN1170 pack sizes.
Label Codes	: 3
Packing Group	: 11
ERG Number	: 127
In Accordance with IMDG	
Proper Shipping Name	: ETHYL ALCOHOL SOLUTIONS
Hazard Class	: 3
Identification number	UN1170
Packing Group	: 11
Label Codes	: 3
EmS-No. (Fire)	: F-E < 🍟 🔪
EmS-No. (Spillage)	: S-D
In Accordance with IATA	
Proper Shipping Name	: ETHYL ALCOHOL SOLUTIONS
Packing Group	: II Identification Number : UN1170 Hazard Class: 3
Label Codes	: 3
ERG Code (IATA)	: 3L
In Accordance with TDG	3
Proper Shipping Name	: ETHYL ALCOHOL SOLUTIONS
Packing Group	: 11
Hazard Class	: 3
Identification Number	: UN1170
	$\mathbf{D}_{\text{area}} 10 \text{ of } 12$

Page 10 of 12

Safety Data Sheet (SDS)

Label Codes

: 3

Section 15: Regulatory Information

Ethyl Alcohol, 200 Proof (64-17-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard	
Ethyl alcohol (64-17-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Water (7732-18-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

US State Regulations:

State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

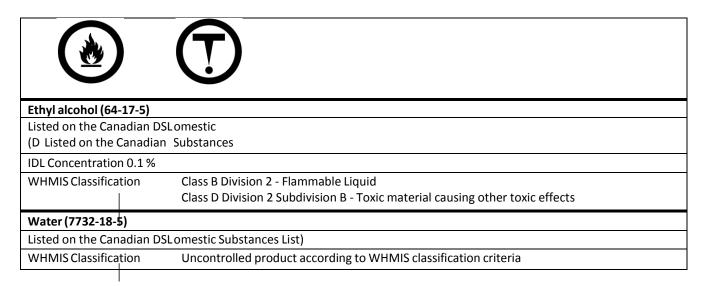
Ethyl alcohol (64-17-5)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Canadian Regulations

Ethyl Alcohol, 200 Proof (64-17-5)		
Listed on the Canadian D	•	
Substances List) Listed on the Canadian		
YesIDL Concentration 0.1	%	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

Page 11 of 12



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Section 16: Other Information

Date of Issue: 01/20/2006 Date of Revision: 05/01/2018

: This document has been prepared in accordance with the SDS requirements of the OSHA

GHS Full Text Phrases:

Other Information

un rext i mases.	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation

Decon Laboratories, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Decon Laboratories, Inc. makes no representations or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, Decon Laboratories, Inc. will not be responsible for damages resulting from the use of or reliance upon this information.

End of Safety Data Sheet

Page 12 of 12



SAFETY DATA SHEET

1. Identification

Product identifier Dysken® Metal Marking Texpen®/Dalo® (All Colors) Other means of identification Black (16030, 16033, 26033), Blue (16013, 26013), Green (16043, 26043), Crange (16103, 26103), Red (16020, 16023, 16024, 16080, 16033, 26035, 26034), Vellow (16000, 1603, 16034, 16080, 16035, 16034, 16080, 16033, 26035, 26034), Vellow (16000, 1603, 16034, 16080, 16033, 16034, 16080, 26003, 26034), Vellow (16000, 16030, 16034, 16080, 16035, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16080, 16034, 16034, 16080, 16034, 16080, 16034,	1. Identification			
Part Number Black (1902), 16033, 2603), Blue (1902), 5023, 10043, 16043, 16043, 16043, 16044, 16028, 25063, 20064) Synonyms Tespon - Fine, Medlum and Broad * Dalo - Medlum and Broad * FORMULA CODE(S); * J3070 (Black), J2143 (Blue) * Y916 (Green), A451M (Orange) * J3076 (Red), J1644 (While) * A419M (Yellow) Recommended use Solvent based marker Recommended restrictions None known. Manufacturer Towpon - Fine, Medlum and Broad * Dalo - Medlum and Broad * FORMULA CODE(S); * J3070 (Yellow) (Yellow) Manufacturer Towpon + Fine, Madlum and Broad * Dalo - Medlum and Broad * FORMULA CODE(S); * J3070 (Yellow) (Yellow) Manufacturer Towpon + Fine, Madlum and Broad * Dalo - Medlum and Broad * Dalo * Medlum an	Product identifier	Dykem® Metal Marking Texpen®/Dalo® ((All Colors)	
idlacki, J2143 (Blue) * Y916 (Green), A451M (Orange) * J3076 (Red), J1694 (While) * A419M (Yallow (Yallow) Recommended use Solvent based marker Recommended restrictions None known. Manufacturer/Importer/Suppler/Distributor Information Information Manufacturer TW Pro Brands Address 805 E. OL 65 Highway Olathe, KS 66061 Toi: + 1800-443-9536 In Case of Emergency 1-800-535-5053 (Infotrac) 2. Hazard(s) identification Toi: + 1800-443-9536 Bern cell mutagenicity Category 3 Read for model instructions Category 1 Physical hazards Flammable liquids Category 1 Carcinogenicity Category 1 Carcinogenicity Category 1 Carcinogenicity Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Flamable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to		26103), Red (16020, 16023, 26023), White (16080, 16083, 16084, 16088, 26083, 26084), Yellow		
Recommended restrictions None known. Manufacturer/Importer/Supplier/Ustributor information Manufacturer/Importer/Supplier/Ustributor information Company name ITVP ro Brands Address 805 E. Old 56 Highway Otathe, KS 66061 Otathe, KS 66061 Country (U.S.A.) Tel: 11 800-4439-9536 Tel: 14 800-4439-9536 In Case of Emergency 1>800-535-5053 (Infotrac) 2. Hazard (s) identification Category 3 Health hazards Germ cell mutagenicity Category 1B Specific target organ toxicity, repeated Category 1 (Central nervous system) exposition hazard Specific target organ toxicity, repeated Category 1 (Central nervous system) exposition OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause gener. Causes damage to regrast central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters aniways. Preceutionary statement Otain special instructions before use. Do ny relatively approach on sparking loots. Takae proceutionary statement and relatively classed. Groundbond container and receiving equipment. Use explosion proof olectric/Alvenitation/Suber and receiving equipment. Use explosion proof olectric/Alvenitation/Suber and receiving equipment. Use e	Synonyms	(Black), J2143 (Blue) * Y916 (Green), A451M (Orange) * J3076 (Red), J1694 (White) * A419M		
Manufacturer/Importer/Supplier/Jistributor information Manufacturer/ Manufacturer/ Company name ITW Pro Brands 805 E. Old 56 Highway Olathe, KS 66001 Country (J.S.A.) Tel. +1 800-443-9536 In Case of Emergency 1-800-535-5053 (Inforac) 2. Hazard(s) identification Physical hazards Flammable liquids Category 3 Health hazards Gerr cell mutagenicity Category 1B Carcinogenicity Category 1B Carcinogenicity Category 1B Carcinogenicity Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ scentral nervous system) hrough prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Preceutionary statement Jobtain special instructions before use. Do not hardle until al safety precautions have been read and understood. Keep away from heatsparks/open flames/hot surfaces No smoking, Keep container (ight) closed. Ground/cond container and receiving equipment. Use explosion-proof electrical/envirolitione upinement. Use on phonesparking loots. Take precautions are before use. Do not breathe mat or vapor. Wash thoroughy	Recommended use	Solvent based marker		
Manufacturer ITW Pro Brands Company name ITW Pro Brands Address 805 E. Old 56 Highway Olathe, KS 66061 Olathe, KS 66061 Country (U.S.A.) Tel: +1 800-443-9536 Tel: +1 800-443-9536 In Case of Emergency 1=800-535-5053 (Inforac) 2. Hazard(s) identification Earning Category 3 Physical hazards Flammable liquids Category 1 Carcinogenicity Category 1 B Specific target organ toxicity, repeated Category 1 (central nervous system) exposure Category 1 Bot classified. Environmental hazards Not classified. Secondation hazard Ost classified. Flammable liquid and vapor. May cause generic causes damage to gragen (central nervous system) through prolome prolome for repeated exposure. May be fatal if swallowed and enters ainways. Precautionary statement Flammable liquid and vapor. May cause generic repeated exposure. May be fatal if swallowed and enters ainways.	Recommended restrictions	None known.		
Company name ITW Pro Brands Address 805 E. Old 56 Highway Olathe, KS 66061 Olathe, KS 66061 Country (U.S.S.) Tel: +1 800-443-9536 Tel: +1 800-443-9536 In Case of Emergency 1-800-535-5053 (Inforac) 2. Hazard(s) identification Earon 201 mutagenicity Category 3 Physical hazards Flammable liquids Category 1B Specific target organ toxicity, repeated Category 1 B Specific target organ toxicity, repeated Category 1 (central nervous system) Specific target organ toxicity, repeated Category 1 Specific target organ toxicity, repeated Category 1 System Category 1 System Category 1 Box Category 1 Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Prevention Obtain special instructions before use. Do not	Manufacturer/Importer/Supplier	Distributor information		
Address 805 E. Old 56 Highway Olathe, KS 66001 Olathe, KS 66001 Country (U.S.A.) Tel:+1800-443-9536 Tel:+1600-443-9536 In Case of Emergency 1-800-535-5053 (Infotrac) 2. Hazard(s) identification Germ cell mutagenicity Category 3 Health hazards Flammable liquids Category 1 B Germ cell mutagenicity Category 1 Specific target organ toxicity, repeated Category 1 Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolong prol and prolink proceautions have been read and underst	Manufacturer			
Olathe, KS 66061 (U.S.A.) Tel: +1 800-443-9536 in Case of Emergency 1 Tel: +1 800-443-9536 in Case of Emergency 1 Physical hazards Flammable liquids Category 3 Health hazards Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Specific target organ toxicity, repeated exposure Category 1 Specific target organ toxicity, repeated Category 1 Category 1 Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Signal word Banger Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters aiways. Precautionary statement Prevention Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open fitameshot surfaces. No smoking. Keep continer tighty locased. Ground/bond container and receiving equipment. Use selpoison-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures agains tatic discharge. Do not branche mist or vapor. Wash thorough) after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective cothing/eye protection. ^T /ac er orotector. Re	Company name			
Country(U.S.A.) Tel: +1 800-443-9536 1el: 00-535-5053 (Infotrac)In Case of Emergency1-800-535-5053 (Infotrac)2. Hazard(s) identificationCategory 3Physical hazardsFlammable liquidsCategory 1B CarcinogenicityBalenth hazardsGare orell mutagenicity, repeated exposureCategory 1B Category 1B Category 1B Category 1B Category 10Balenth hazardsNot classified.Category 1 (central nervous system) exposureDSHA defined hazardsNot classified.Category 1Balent In ZardsNot classified.Vertex 1000000000000000000000000000000000000	Address			
Tel: +1 800-443-9536 In Case of Emergency 1-800-535-5053 (Infotrac) 2. Hazard(s) identification Emergency Physical hazards Flammable liquids Category 3 Health hazards Germ cell mutagenicity Category 1B Specific target organ toxicity, repeated Category 1 (central nervous system) exposure Aspiration hazard Category 1 OSHA defined hazards Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters ainways. Precautionary statement Prevention Prevention Otain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flamesch to surfaces No smoling. Keep and understood. Keep away from heat/sparks/open flamesch to surfaces No smoling. Keep on theat/sparks/open flamesch to surfaces No smoling. Keep on theat/sparksurface No smoling. Keep on theat/sparks/open flame				
In Case of Emergency1-800-535-5053 (Infortac)C. Hazard(s) identificationFlammable liquidsCategory 3Physical hazardsFlammable liquidsCategory 1BBealth hazardsGerm cell mutagenicityCategory 1BSpecific target organ toxicity, repeated exposureCategory 1 (central nervous system) exposureAspiration hazardCategory 1Environmental hazardsNot classified.OSHA defined hazardsNot classified.Use classified.Stategory 1Case of the elementsSignal wordHazard statementDangerFreeventionPreventionPrecutionary statement PreventionObtain special instructions before use. Do not hard purchall if subloced or repeated exposure. Nay be fatal if subloced and understook Keep away from heat/sparks/open flames/hot subcostropor electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breather mist or vapor. Wash thoroughly dised productionary measures against static discharge. Do not breather mist or vapor. Wash thoroughly dised or vapor. Wash thoroughly dised or vapor. Wash thoroughly dised or vapor. Wash thoroughly distructionary integes or repeated exposure. No smoking. Keep container tightly closed. Groundbood container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use explosion proof electrical/ventilating/lighting equipment. Use explosion container discharge. Do not breather mist or vapor. Wash thoroughly distructionary measures against static discharge. Do not breather mist or vapor. Wash thoroughly difer handling, bo not eat, drink or sm	Country			
2. Hazard(s) identification Flammable liquids Category 3 Health hazards Germ cell mutagenicity Category 1B Carcinogenicity Category 1 (central nervous system) exposure Aspiration hazard Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters ainways. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilitanglighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Response If swallowed: Immediately call a poison center/doctr. Do NOT induce vomiting. If on skin (or hair): Take off immediately call a poison center/doctr. Do NOT induce vomiting. If on skin (or hair): Take off immediately call approximate coff fire: Use appropriate media to extinguish. <th>In Case of Emergency</th> <th></th> <th></th>	In Case of Emergency			
Physical hazards Flammable liquids Category 3 Health hazards Germ cell mutagenicity Category 1B Specific target organ toxicity, repeated exposure Category 1 (central nervous system) Specific target organ toxicity, repeated exposure Category 1 Aspiration hazard Category 1 OSHA defined hazards Not classified. OSHA defined hazards Not classified. Label elements Vot classified. Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/writiting/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash throughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection.//ace protection. Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rines skin with water/shower. If exposed or concerned: Get medical advice/attentinton. In case of fire: Use appropriate media to exingui				
Health hazards Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Specific target organ toxicity, repeated Category 1 exposure Category 1 Aspiration hazard Category 1 OSHA defined hazards Not classified. OSHA defined hazards Not classified. Label elements Vot classified. Figure 1 Figure 2 Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/liquing equipment. Use on proof. Nake precautionary measures against static discharge. Do not breathe mist or vapor. Wash throughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection.//ace protection. Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rines skin with water/shower. If exposed or orocorrect: Get medical advice/attention. In ca	2. Hazard(s) identification			
Carcinogenicity Category 1B Specific target organ toxicity, repeated Category 1 (central nervous system) exposure Aspiration hazard Category 1 Environmental hazards Not classified. Category 1 OSHA defined hazards Not classified. Category 1 Label elements Image: Category 1 Category 1 Signal word Danger Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not beath emist or vapor. Wash throughly after handling. Do not eat, fink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish. Storage Storage Store in a well-ventilated pla	Physical hazards	Flammable liquids	Category 3	
Specific target organ toxicity, repeated exposure Category 1 (central nervous system) Aspiration hazard Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. OSHA defined hazards Not classified. Label elements Image: I	Health hazards	Germ cell mutagenicity	Category 1B	
exposure Aspiration hazard Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Label elements Image:		Carcinogenicity	Category 1B	
Environmental hazardsNot classified.OSHA defined hazardsNot classified.Label elementsImage: Comparison of the temperature of temperature			Category 1 (central nervous system)	
OSHA defined hazards Not classified. Label elements Image: Im		Aspiration hazard	Category 1	
Label elements Image: Control of the second sec	Environmental hazards	Not classified.		
Signal wordDangerHazard statementFlammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways.Precautionary statementObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection./If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStorageStore in a well-ventilated place. Keep cool. Store locked up.	OSHA defined hazards	Not classified.		
Hazard statementFlammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways.Precautionary statement PreventionObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStore in a well-ventilated place. Keep cool. Store locked up.				
organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways.Precautionary statement PreventionObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStore in a well-ventilated place. Keep cool. Store locked up.	Signal word	Danger		
PreventionObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStore in a well-ventilated place. Keep cool. Store locked up.	Hazard statement	organs (central nervous system) through pr		
and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStore in a well-ventilated place. Keep cool. Store locked up.	Precautionary statement			
Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStore in a well-ventilated place. Keep cool. Store locked up.	Prevention	and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective		
	Response	Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or		
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.	Storage	Store in a well-ventilated place. Keep cool. Store locked up.		
	Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		

 Material name: Dykem® Metal Marking Texpen®/Dalo® (All Colors)
 SDS US

 Black (16030, 16033, 26033), Blue (16013, 26013), Green (16043, 26043), Orange (16103, 26103), Red (16020, 16023, 26023), White (1 / 11

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aromatic Solvent		64742-95-6	10 - 20
Kaolin		1332-58-7	10 - 20
Titanium Dioxide		13463-67-7	10 - 20
Hydrocarbon resin		68131-77-1	5 - 15
1,2,4-Trimethylbenzene		95-63-6	5 - 10
Resin		9003-55-8	5 - 10
Carbon Black		1333-86-4	1 - 5
Chlorinated Paraffin		63449-39-8	1 - 5
Mineral Spirits Regular Stoddard Solvent		8052-41-3	1 - 5
Silica, amorphous		7631-86-9	1 - 3
Aluminum Hydroxide		21645-51-2	0.1 - 1
Cumene		98-82-8	0.1 - 1
Light Mineral Spirits		64742-88-7	0.1 - 1
Xylene		1330-20-7	0.1 - 1

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. Narcosis. Behavioral changes. Decrease in motor functions. Direct contact with eyes may cause temporary irritation. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.

6. Accidental release measures

o. Additional release mea	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).
• F	

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	r Contaminants (29 CFR 1910.1000) Type	Value	Form
Carbon Black (CAS 1333-86-4)	PEL	3.5 mg/m3	
Cumene (CAS 98-82-8)	PEL	245 mg/m3	
		50 ppm	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	PEL	2900 mg/m3	
		500 ppm	
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
Xylene (CAS 1330-20-7)	PEL	435 mg/m3	
, , , , , , , , , , , , , , , , , , ,		100 ppm	
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Cumene (CAS 98-82-8)	TWA	50 ppm	
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.

Material name: Dykem® Metal Marking Texpen®/Dalo® (All Colors)

sds Us 3 / 11

Black (16030, 16033, 26033), Blue (16013, 26013), Green (16043, 26043), Orange (16103, 26103), Red (16020, 16023, 26023), White (1

US. ACGIH Threshold Lin Components		Туре	Va	lue	Form
Mineral Spirits Regular Stoddard Solvent (CAS		TWA	100) ppm	
8052-41-3) Titanium Dioxide (CAS 13463-67-7)		TWA	10	mg/m3	
Xylene (CAS 1330-20-7)		STEL TWA) ppm) ppm	
US. NIOSH: Pocket Guid	e to Chemical Haza	ards			
Components		Туре	Va	lue	Form
1,2,4-Trimethylbenzene (CAS 95-63-6)		TWA		5 mg/m3	
Carbon Black (CAS		TWA		ppm mg/m3	
1333-86-4) Cumene (CAS 98-82-8)		TWA		5 mg/m3 ppm	
Kaolin (CAS 1332-58-7)		TWA	5 n	ng/m3 mg/m3	Respirable. Total
Mineral Spirits Regular Stoddard Solvent (CAS		Ceiling		00 mg/m3	
8052-41-3)		TWA	35(0 mg/m3	
Silica, amorphous (CAS 7631-86-9)		TWA		ng/m3	
Xylene (CAS 1330-20-7)		STEL		5 mg/m3) ppm	
logical limit values		TWA	435	5 mg/m3 5 ppm	
logical limit values ACGIH Biological Expos Components	ure Indices Value	TWA Determinant	435	5 mg/m3	īme
ACGIH Biological Expos	ure Indices	Determinant Methylhippuric	438 100 Specimen Creatinine in	5 mg/m3) ppm	īme
ACGIH Biological Exposi Components	ure Indices Value 1.5 g/g	Determinant Methylhippuric acids	438 100 Specimen	5 mg/m3 0 ppm Sampling 1	īme
ACGIH Biological Expose Components Xylene (CAS 1330-20-7)	ure Indices Value 1.5 g/g	Determinant Methylhippuric acids	438 100 Specimen Creatinine in	5 mg/m3 0 ppm Sampling 1	īme
ACGIH Biological Expose Components Xylene (CAS 1330-20-7) * - For sampling details, pl posure guidelines US - California OELs: Sk	ure Indices Value 1.5 g/g ease see the source in designation	Determinant Methylhippuric acids e document.	438 100 Specimen Creatinine in urine	5 mg/m3 0 ppm Sampling 1 *	īme
ACGIH Biological Expose Components Xylene (CAS 1330-20-7) * - For sampling details, pl posure guidelines US - California OELs: Sk Cumene (CAS 98-82-	ure Indices Value 1.5 g/g ease see the source in designation 8)	Determinant Methylhippuric acids e document. Can be	438 100 Specimen Creatinine in	5 mg/m3 0 ppm Sampling 1 *	^r ime
ACGIH Biological Expose Components Xylene (CAS 1330-20-7) * - For sampling details, pl posure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82-	ure Indices Value 1.5 g/g ease see the source in designation 8) s: Skin designatior 8)	Determinant Methylhippuric acids e document. Can be n applies	438 100 Specimen Creatinine in urine	gh the skin.	'ime
ACGIH Biological Expose Components Xylene (CAS 1330-20-7) * - For sampling details, pl posure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82-	ure Indices Value 1.5 g/g ease see the source in designation 8) s: Skin designation 8) kin designation 8)	Determinant Methylhippuric acids e document. Can be n applies Skin de Can be	438 100 Specimen Creatinine in urine	gh the skin.	^r ime
ACGIH Biological Expose Components Xylene (CAS 1330-20-7) * - For sampling details, pl oosure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82-	ure Indices Value 1.5 g/g ease see the source in designation 8) s: Skin designation 8) kin designation 8) to Chemical Hazar 8)	Determinant Methylhippuric acids e document. Can be skin de Can be can be can be can be can be can be	438 100 Specimen Creatinine in urine e absorbed throu e absorbed throu e absorbed throu	gh the skin. s. gh the skin.	īme
ACGIH Biological Exposit Components Xylene (CAS 1330-20-7) * - For sampling details, pl bosure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82-	ure Indices Value 1.5 g/g ease see the source in designation 8) s: Skin designation 8) kin designation 8) to Chemical Hazar 8) to Shor Air Contami	Determinant Methylhippuric acids e document. Can be Skin de Can be rds: Skin designation Can be nants (29 CFR 1910.10	438 100 Specimen Creatinine in urine absorbed throu esignation applie absorbed throu e absorbed throu oo)	s. mg/m3 5 mg/m3 5 ppm Sampling 1 * gh the skin. s. gh the skin. gh the skin.	ïme
ACGIH Biological Expose Components Xylene (CAS 1330-20-7) * - For sampling details, pl oosure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82-	ure Indices Value 1.5 g/g ease see the source in designation 8) s: Skin designation 8) kin designation 8) to Chemical Hazar 8) ts for Air Contami 8) Explosion-prod changes per h applicable, use maintain airbo	Determinant Methylhippuric acids e document. Can be can be co can be co can be co can be co can be co can be co can be co can be co can be co co can be co co can be co co can be co co can be co co can be co co co can be co co co co co can be co co co co co co co co co co co co co	438 100 Specimen Creatinine in urine absorbed throu e absorbed throu e absorbed throu absorbed throu aust ventilation. (ntilation rates sh cal exhaust vent nended exposure	s. mg/m3 5 mg/m3 5 ppm Sampling 1 * gh the skin. s. gh the skin. gh the skin. Good general fould be match iould be match ilation, or othe e limits. If expo	ventilation (typically 10 air led to conditions. If r engineering controls to
ACGIH Biological Expose Components Xylene (CAS 1330-20-7) * - For sampling details, pl posure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82- US. OSHA Table Z-1 Limi Cumene (CAS 98-82-	ure Indices Value 1.5 g/g ease see the source in designation 8) 5: Skin designation 8) kin designation 8) to Chemical Hazar 8) ts for Air Contami 8) Explosion-prod changes per h applicable, use maintain airbo established, m	Determinant Methylhippuric acids e document. Can be napplies Skin de Can be rds: Skin designation Can be nants (29 CFR 1910.10 Can be of general and local exha our) should be used. Ve e process enclosures, lo rne levels below recommentation airborne levels to	438 100 Specimen Creatinine in urine absorbed throu e absorbed throu e absorbed throu absorbed throu aust ventilation. (ntilation rates sh cal exhaust vent nended exposure o an acceptable int	s. mg/m3 5 mg/m3 5 ppm Sampling 1 * gh the skin. s. gh the skin. gh the skin. Good general fould be match iould be match ilation, or othe e limits. If expo	ventilation (typically 10 air led to conditions. If r engineering controls to
ACGIH Biological Exposit Components Xylene (CAS 1330-20-7) * - For sampling details, pl bosure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82- US. OSHA Table Z-1 Limi Cumene (CAS 98-82- Discorpriate engineering ntrols	ure Indices Value 1.5 g/g ease see the source in designation 8) 5: Skin designation 8) kin designation 8) to Chemical Hazar 8) ts for Air Contami 8) Explosion-prod changes per h applicable, use maintain airbo established, m es, such as person Wear safety gl	Determinant Methylhippuric acids e document. Can be napplies Skin de Can be Can be cds: Skin designation Can be nants (29 CFR 1910.10 Can be of general and local exha our) should be used. Ve e process enclosures, lo rne levels below recomm iaintain airborne levels to nal protective equipme	438 100 Specimen Creatinine in urine absorbed throu e absorbed throu e absorbed throu aust ventilation applie absorbed throu aust ventilation. (ntilation rates sh cal exhaust vent nended exposure o an acceptable int (or goggles).	s. mg/m3 5 mg/m3 5 ppm Sampling 1 * gh the skin. s. gh the skin. gh the skin. Good general fould be match iould be match ilation, or othe e limits. If expo	ventilation (typically 10 air ied to conditions. If

Respiratory protection	Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Various.
Odor	Aromatic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	318 - 338 °F (158.89 - 170 °C)
Flash point	108.0 °F (42.2 °C) Tag Closed Cup
Evaporation rate	< 1 (BuAc = 1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.9 %
Flammability limit - upper (%)	12.3 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	> 1 (air = 1)
Relative density	> 1 @70°F
Solubility(ies)	
Solubility (water)	Slightly soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC	J2143 Blue: 30.78%, 399 g/L, A451M Orange: 28.97%, 352 g/L; J1694 White: 21.49%, 321 g/L J3070 Black: 30.97%, 382 g/L; Y916 Green: 30.9%, 375 g/L; J3076 Red: 35.58%, 430 g/L; A419M Yellow: 28.73%, 351 g/L;
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of bazardous	Hazardous polymerization does not occur

Possibility of hazardous Hazardous polymerization does not occur. reactions

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. Narcosis. Behavioral changes. Decrease in motor functions.

Information on toxicological effects

Acute toxicity

May be fatal if swallowed and enters airways.

- 1	-	
Components	Species	Test Results
1,2,4-Trimethylbenzene (C	AS 95-63-6)	
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Oral		
LD50	Rat	3280 mg/kg
Aluminum Hydroxide (CAS	3 21645-51-2)	
<u>Acute</u>		
Oral		
LD50	Rat	> 2000 mg/kg
Aromatic Solvent (CAS 64	742-95-6)	
Acute		
Dermal		
LD50	Rabbit	> 1900 mg/kg, 24 Hours
Inhalation		
Vapor	-	
LC50	Rat	> 4.96 mg/l, 4 Hours
Oral	_	
LD50	Rat	4820 mg/kg
CALCIUM ROSINATE (CA	S 9007-13-0)	
Acute		
Dermal		0000 # 0411
LD50	Rat	> 2000 mg/kg, 24 Hours
Oral		1000 //
LD50	Rat	> 1000 mg/kg
Cumene (CAS 98-82-8)		
<u>Acute</u>		
Dermal LD50	Rabbit	> 3160 mg/kg, 24 Hours
		> 5100 mg/kg, 24 mours
Light Mineral Spirits (CAS	04/42-00-/)	
<u>Acute</u> Dermal		
LD50	Rabbit	> 2000 mg/kg
	habbit	

sds Us 6 / 11

Components	Species	Test Results		
Inhalation				
Vapor				
LC50	Rat	> 4.5 mg/l, 4 Hours		
Silica, amorphous (CAS 7631-86-9))			
Acute				
Dermal LD50	Dabbit			
	Rabbit	> 2000 mg/kg, 24 Hours		
Oral LD50	Rat	> 2200 mg/kg		
		> 3300 mg/kg		
Titanium Dioxide (CAS 13463-67-7)			
<u>Acute</u> Inhalation				
LC50	Rat	> 2.28 mg/l, 4 Hours		
Oral				
LD50	Rat	> 2000 mg/kg		
Xylene (CAS 1330-20-7)				
<u>Acute</u>				
Oral				
LD50	Rat	3523 mg/kg		
Skin corrosion/irritation	Prolonged skin contact may c	ause temporary irritation.		
Serious eye damage/eye	Direct contact with eyes may			
irritation	,			
Respiratory or skin sensitization	l			
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected to cause skin sensitization.			
Germ cell mutagenicity	May cause genetic defects.			
Carcinogenicity	May cause cancer.			
ACGIH Carcinogens				
Carbon Black (CAS 1333	-86-4)	A3 Confirmed animal carcinogen with unknown relevance to		
Kaolin (CAS 1332-58-7)		humans. A4 Not classifiable as a human carcinogen.		
Titanium Dioxide (CAS 13463-67-7)		A4 Not classifiable as a human carcinogen.		
Xylene (CAS 1330-20-7)		A4 Not classifiable as a human carcinogen.		
	Evaluation of Carcinogenicity			
Carbon Black (CAS 1333 Cumene (CAS 98-82-8)	-86-4)	2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans.		
Resin (CAS 9003-55-8)		3 Not classifiable as to carcinogenicity to humans.		
Silica, amorphous (CAS 7		3 Not classifiable as to carcinogenicity to humans.		
Titanium Dioxide (CAS 13 Xylene (CAS 1330-20-7)	3463-67-7)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.		
	d Substances (29 CFR 1910.1			
Not regulated.	•			
	gram (NTP) Report on Carcin	-		
Cumene (CAS 98-82-8)		Reasonably Anticipated to be a Human Carcinogen.		
Reproductive toxicity		o cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Causes damage to organs (co	entral nervous system) through prolonged or repeated exposure.		
Aspiration hazard	May be fatal if swallowed and enters airways.			
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.			
Further information	Symptoms may be delayed.			

Material name: Dykem® Metal Marking Texpen®/Dalo® (All Colors)

Black (16030, 16033, 26033), Blue (16013, 26013), Green (16043, 26043), Orange (16103, 26103), Red (16020, 16023, 26023), White (*

SDS US

7 / 11

2 Ecological information

Ecotoxicity		t is not classified as environmentally hazardo		
Components	possibility t	hat large or frequent spills can have a harmfu Species	Il or damaging effect on the environment Test Results	
1,2,4-Trimethylbenzene (CAS	S 95-63-6)	•		
Aquatic	,			
Fish	LC50	Fathead minnow (Pimephales promelas)	7.19 - 8.28 mg/l, 96 hours	
Chlorinated Paraffin (CAS 63	449-39-8)			
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	> 0.1 mg/l, 96 hours	
Cumene (CAS 98-82-8)				
Aquatic				
Crustacea	EC50	Brine shrimp (Artemia sp.)	3.55 - 11.29 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.7 mg/l, 96 hours	
Titanium Dioxide (CAS 1346	3-67-7)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours	
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours	
Xylene (CAS 1330-20-7)				
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours	
Persistence and degradability Bioaccumulative potential	No data is a	available on the degradability of any ingredien	nts in the mixture.	
Partition coefficient n-octa	nol / water (lo			
Cumene Mineral Spirits Regular Stodo Xylene	dard Solvent	3.66 3.16 - 7.15 3.12 - 3.2		
lobility in soil	No data ava			
)ther adverse effects	None know	n.		
3. Disposal consideratio	ns			
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.			
ocal disposal regulations	Dispose in accordance with all applicable regulations.			
lazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
Vaste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).			
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.			
4. Transport information	l			
ют				
UN number	UN1263			
UN proper shipping name Transport hazard class(es)	Paint			
Class	3			
Subsidiary risk	- 3	-		

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

B1, B52, IB3, T2, TP1, TP29

3

|||

150

Label(s)

Special provisions

Packing group

SDS US 8 / 11

Packaging non bulk	173
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1263
UN proper shipping name	Paint
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	3L
· ·	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1263
UN proper shipping name	PAINT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-E, <u>S</u> - <u>E</u>
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and the IBC Code	
DOT	
•	



IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

9-8) Short-Chain Paraffins Act 40 CFR 302.4) Listed. Listed. Ation Prees (29 CFR 1910.1001-1052) tion Act of 1986 (SARA) Stance ble (gases, aerosols, liquids, or solic ell mutagenicity	Chlorinated Paraffins (SCCPs) and Other Chlorinated tion Plan
Listed. Listed. ation nces (29 CFR 1910.1001-1052) tion Act of 1986 (SARA) stance ble (gases, aerosols, liquids, or solic	
Listed. ation nces (29 CFR 1910.1001-1052) tion Act of 1986 (SARA) stance ble (gases, aerosols, liquids, or solic	
ation nces (29 CFR 1910.1001-1052) tion Act of 1986 (SARA) stance ble (gases, aerosols, liquids, or solic	
nces (29 CFR 1910.1001-1052) tion Act of 1986 (SARA) stance ble (gases, aerosols, liquids, or solic	
tion Act of 1986 (SARA) stance ble (gases, aerosols, liquids, or solic	
stance ble (gases, aerosols, liquids, or solic	
ble (gases, aerosols, liquids, or solic	
	(ah
genicity target organ toxicity (single or repea on hazard	
	% by wt.
95-63-6	5 - 10
rdous Air Pollutants (HAPS) List	
cidental Release Prevention (40 C	CFR 68.130)
ılated.	
nity Right-to-Know Act	
3-6) 13-0) blvent (CAS 8052-41-3))	
VG: This product contains a chemica	al known to the State of California to cause cancer.
Listed date/Carcinogenic substand	се
Listed: April 6	
als List. Safer Consumer Product	ts Regulations (Cal. Code Regs, tit. 22, 69502.3,
95-63-6) 95-6)) 49-39-8) rd Solvent (CAS 8052-41-3) 67-7)	
ry name	On inventory (yes/no)
, y name	, (,,-,
	CAS number 95-63-6 ardous Air Pollutants (HAPs) List cidental Release Prevention (40 C alated. http Right-to-Know Act 3-6) 3-0) blvent (CAS 8052-41-3)) NG: This product contains a chemical Listed date/Carcinogenic substance Listed: April cals List. Safer Consumer Product 95-63-6) 95-63-6) 95-63-8) rd Solvent (CAS 8052-41-3)

Country(s) or region	Inventory name On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	04-16-2018
Version #	01
Disclaimer	ITW Pro Brands cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	Product and Company Identification: Alternate Trade Names Hazard(s) identification: Response Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Regulatory information: California Proposition 65



SAFETY DATA SHEET

1. Identification

Product identifier Dysken® Metal Marking Texpen®/Dalo® (All Colors) Other means of identification Black (16030, 16033, 26033), Blue (16013, 26013), Green (16043, 26043), Crange (16103, 26103), Red (16020, 16023, 16024, 16080, 16033, 26035, 26034), Vellow (16000, 1603, 16034, 16080, 16035, 16034, 16080, 16033, 26035, 26034), Vellow (16000, 1603, 16034, 16080, 16033, 16034, 16080, 26003, 26034), Vellow (16000, 16030, 16034, 16080, 16035, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16033, 16034, 16080, 16034,	1. Identification			
Part Number Black (1902), 16033, 2603), Blue (1902), 5023, 10043, 16043, 16043, 16043, 16044, 16028, 25063, 20064) Synonyms Tespon - Fine, Medlum and Broad * Dalo - Medlum and Broad * FORMULA CODE(S); * J3070 (Black), J2143 (Blue) * Y916 (Green), A451M (Orange) * J3076 (Red), J1644 (While) * A419M (Yellow) Recommended use Solvent based marker Recommended restrictions None known. Manufacturer Towpon - Fine, Medlum and Broad * Dalo - Medlum and Broad * FORMULA CODE(S); * J3070 (Yellow) (Yellow) Manufacturer Towpon + Fine, Madlum and Broad * Dalo - Medlum and Broad * FORMULA CODE(S); * J3070 (Yellow) (Yellow) Manufacturer Towpon + Fine, Madlum and Broad * Dalo - Medlum and Broad * Dalo * Medlum an	Product identifier	Dykem® Metal Marking Texpen®/Dalo® (All Colors)		
idlacki, J2143 (Blue) * Y916 (Green), A451M (Orange) * J3076 (Red), J1694 (While) * A419M (Yallow (Yallow) Recommended use Solvent based marker Recommended restrictions None known. Manufacturer/Importer/Suppler/Distributor Information Information Manufacturer TW Pro Brands Address 805 E. Ot 65 Highway Olathe, KS 66061 Tel: + 1800-443-9536 In Case of Emergency 1-800-535-5053 (Infotrac) 2. Hazard(s) identification Tel: + 1800-443-9536 Bern cell mutagenicity Category 3 Read for model mutagenicity Category 1B Carcinogenicity Category 1B Specific target organ toxicity, repeated Category 1 evosure Appriation hazard Category 1 Address Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Flamable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure.		26103), Red (16020, 16023, 26023), White (16080, 16083, 16084, 16088, 26083, 26084), Yellow		
Recommended restrictions None known. Manufacturer/Importer/Supplier/Distributor information Manufacturer Company name ITVP Pro Brands Address 805 E. Old 56 Highwaya Oblahe, KS 66061 Olathe, KS 66061 Country (U.S.A.) Tel: +1 800-4439-9536 Tel: +1 800-4439-9536 In Case of Emergency 1 >800-555-5053 (Infotrac) 2. Hazard (s) identification Category 3 Health hazards Germ cell mutagenicity Category 1B Specific target organ toxicity, repeated Category 1 (Central nervous system) exposure Aspiration hazards Not classified. System Not classified. Category 1 (central nervous system) exposure Signal word Danger Signal word Signal word. Precautionary statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to system system system system system in envous system) through problem surveys. May be fatal if system contain distructions before use. Do reparted exposure. May be fatal if system container digity closed. Groundbond container and receiving equipment. Use explosion-proof olectric/diventiating equipment. Use ary prostem sparking loots. Take precautionary statement and understood. Keep away from hazinger. No synching. Keep container digity closed. Groundbond container and receiving equipm	Synonyms	Texpen - Fine, Medium and Broad * Dalo - Medium and Broad * FORMULA CODE(S): * J3070 (Black), J2143 (Blue) * Y916 (Green), A451M (Orange) * J3076 (Red), J1694 (White) * A419M		
Manufacturer/Importer/Supplier/Jistributor information Manufacturer/ Manufacturer/ Company name ITW Pro Brands 805 E. Old 56 Highway Olathe, KS 66001 Country (J.S.A.) Tel. +1 800-443-9536 In Case of Emergency 1-800-535-5053 (Inforac) 2. Hazard(s) identification Physical hazards Flammable liquids Category 3 Health hazards Gerr cell mutagenicity Category 1B Carcinogenicity Category 1B Carcinogenicity Category 1B Carcinogenicity Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Prevention Dibtain special instructions before use. Do not hardle until al safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking, Keep container (ight) closed. Ground/cond container and receiving equipment. Use explosion-proof electrical/environmental advice/attention. Lise on pronsparking loots. Take precautions are been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking, Keep container (ight) closed. Ground/cond container and receiving equipment. Use explosion-proof electrical/envirolitage equipment. Use ory proorsparking	Recommended use			
Manufacturer ITW Pro Brands Company name ITW Pro Brands Address 805 E. Old 56 Highway Olathe, KS 66061 Olathe, KS 66061 Country (U.S.A.) Tel: +1 800-443-9536 Tel: +1 800-443-9536 In Case of Emergency 1=800-535-5053 (Inforac) 2. Hazard(s) identification Earning Category 3 Physical hazards Flammable liquids Category 1 Carcinogenicity Category 1 B Specific target organ toxicity, repeated Category 1 (central nervous system) exposure Category 1 Appriation hazards Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause generic causes damage to organs (central nervous system) through prolomed or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Flammable liquid and vapor. May cause generic causes damage to organs (central nervous system) through prolomed on repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Flammable liquid and vapor. May cause generic repeated exposure. May be fatal if swallowed and enters airways. Preceautionary statement Flamma	Recommended restrictions	None known.		
Company name ITW Pro Brands Address 805 E. Old 56 Highway Olathe, KS 66061 Olathe, KS 66061 Country (U.S.S.) Tel: +1 800-443-9536 Tel: +1 800-443-9536 In Case of Emergency 1-800-535-5053 (Inforac) 2. Hazard(s) identification Earon 201 mutagenicity Category 3 Physical hazards Flammable liquids Category 1B Specific target organ toxicity, repeated Category 1 B Specific target organ toxicity, repeated Category 1 (central nervous system) Specific target organ toxicity, repeated Category 1 Specific target organ toxicity, repeated Category 1 System Category 1 System Category 1 Box Category 1 Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Prevention Obtain special instructions before use. Do not	Manufacturer/Importer/Supplier	Distributor information		
Address 805 E. Old 56 Highway Olathe, KS 66001 Olathe, KS 66001 Country (U.S.A.) Tel:+1800-443-9536 Tel:+1600-443-9536 In Case of Emergency 1-800-535-5053 (Infotrac) 2. Hazard(s) identification Germ cell mutagenicity Category 3 Health hazards Flammable liquids Category 1 B Germ cell mutagenicity Category 1 Specific target organ toxicity, repeated Category 1 Specific target organ toxicity, repeated Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolong prol and prolink proceautions have been read and underst	Manufacturer			
Olathe, KS 66061 (U.S.A.) Tel: +1 800-443-9536 in Case of Emergency 1 Tel: +1 800-443-9536 in Case of Emergency 1 Physical hazards Flammable liquids Category 3 Health hazards Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Specific target organ toxicity, repeated exposure Category 1 Specific target organ toxicity, repeated Category 1 Category 1 Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Signal word Banger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swellowed and enters aiways. Precautionary statement Prevention Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open filameshot surfaces No smoking. Keep continer tighty locased. Ground/bond container and receiving equipment. Use selpoison-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures agains static discharge. Do not beacher mait or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective cothing/eye protection. ²	Company name			
Country(U.S.A.) Tel: +1 800-443-9536 1el: 00-535-5053 (Infotrac)In Case of Emergency1-800-535-5053 (Infotrac)2. Hazard(s) identificationCategory 3Physical hazardsFlammable liquidsCategory 1B CarcinogenicityBalenth hazardsGare orell mutagenicity, repeated exposureCategory 1B Category 1B Category 1B Category 1B Category 10Balenth hazardsNot classified.Category 1 (central nervous system) exposureDSHA defined hazardsNot classified.Category 1Balent In ZardsNot classified.Vertex 1000000000000000000000000000000000000	Address			
Tel: +1 800-443-9536 In Case of Emergency 1-800-535-5053 (Infotrac) 2. Hazard(s) identification Emergency Physical hazards Flammable liquids Category 3 Health hazards Germ cell mutagenicity Category 1B Specific target organ toxicity, repeated Category 1 (central nervous system) exposure Specific target organ toxicity, repeated Category 1 OSHA defined hazards Not classified. OSHA defined hazards Not classified. Label elements Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters ainways. Precautionary statement Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/spark/sper flamesch/s surfaces No sm/oning. Keep on to eact drink or smoke when using this protective gloves/protective clon/ace protection/ace protection/ace protection/ace protection/ace proteclon/ace protection/ace protection/ace proteclon/ace				
In Case of Emergency1-800-535-5053 (Infortac)C. Hazard(s) identificationFlammable liquidsCategory 3Physical hazardsFlammable liquidsCategory 1BBealth hazardsGerm cell mutagenicityCategory 1BSpecific target organ toxicity, repeated exposureCategory 1 (central nervous system) exposureAspiration hazardCategory 1Environmental hazardsNot classified.OSHA defined hazardsNot classified.Use classified.Stategory 1Case of the elementsSignal wordHazard statementDangerFreeventionCangerPrecutionary statementFlammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolomeel everyoper duridential if sublewel and enters airways.PreventionObtain special instructions before use. Do not hadle until al safety precautions have been read ordan understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Groundbond container and reeving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breather mist or vapor. Wash thoroughly after handling. No not eat, drink or smoke when using this protective cloron. Take of firmediately all contaminated clothing. Rines skin with water/shower. If exposed or container tightly closed. Groundbond container. Lise only firmediately all contaminated clothing. Rines skin with water/shower. If exposed or container tightly closed. Groundbond container. Lise only firmediately all contaminated clothing. Rines skin with water/shower. If	Country			
2. Hazard(s) identification Flammable liquids Category 3 Health hazards Germ cell mutagenicity Category 1B Carcinogenicity Category 1 (central nervous system) exposure Aspiration hazard Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters ainways. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilitanglighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Response If swallowed: Immediately call a poison center/doctr. Do NOT induce vomiting. If on skin (or hair): Take off immediately call a poison center/doctr. Do NOT induce vomiting. If on skin (or hair): Take off immediately call approximate coff fire: Use appropriate media to extinguish. <th>In Case of Emergency</th> <th></th> <th></th>	In Case of Emergency			
Physical hazards Flammable liquids Category 3 Health hazards Germ cell mutagenicity Category 1B Specific target organ toxicity, repeated exposure Category 1 (central nervous system) Specific target organ toxicity, repeated exposure Category 1 Aspiration hazard Category 1 OSHA defined hazards Not classified. OSHA defined hazards Not classified. Label elements Vot classified. Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/writiting/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash throughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection.//ace protection. Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rines skin with water/shower. If exposed or concerned: Get medical advice/attentinton. In case of fire: Use appropriate media to exingui				
Health hazards Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Specific target organ toxicity, repeated Category 1 exposure Category 1 Aspiration hazard Category 1 OSHA defined hazards Not classified. OSHA defined hazards Not classified. Label elements Vot classified. Figure 1 Figure 2 Signal word Danger Hazard statement Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/liquing equipment. Use on proof. Nake precautionary measures against static discharge. Do not breathe mist or vapor. Wash throughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection.//ace protection. Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rines skin with water/shower. If exposed or orocorrect: Get medical advice/attention. In ca	2. Hazard(s) identification			
Carcinogenicity Category 1B Specific target organ toxicity, repeated Category 1 (central nervous system) exposure Aspiration hazard Category 1 Environmental hazards Not classified. Category 1 OSHA defined hazards Not classified. Category 1 Label elements Image: Category 1 Category 1 Signal word Danger Flammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not beath emist or vapor. Wash throughly after handling. Do not eat, fink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish. Storage Storage Store in a well-ventilated pla	Physical hazards	Flammable liquids	Category 3	
Specific target organ toxicity, repeated exposure Category 1 (central nervous system) Aspiration hazard Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. OSHA defined hazards Not classified. Label elements Image: I	Health hazards	Germ cell mutagenicity	Category 1B	
exposure Aspiration hazard Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Label elements Image:		Carcinogenicity	Category 1B	
Environmental hazardsNot classified.OSHA defined hazardsNot classified.Label elementsImage: Comparison of the temperature of temperature			Category 1 (central nervous system)	
OSHA defined hazards Not classified. Label elements Image: Im		Aspiration hazard	Category 1	
Label elements Image: Control of the second sec	Environmental hazards	Not classified.		
Signal wordDangerHazard statementFlammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways.Precautionary statementObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection./If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStorageStore in a well-ventilated place. Keep cool. Store locked up.	OSHA defined hazards	Not classified.		
Hazard statementFlammable liquid and vapor. May cause genetic defects. May cause cancer. Causes damage to organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways.Precautionary statement PreventionObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStore in a well-ventilated place. Keep cool. Store locked up.				
organs (central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways.Precautionary statement PreventionObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStore in a well-ventilated place. Keep cool. Store locked up.	Signal word	Danger		
PreventionObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary 	Hazard statement	organs (central nervous system) through prolonged or repeated exposure. May be fatal if		
and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStore in a well-ventilated place. Keep cool. Store locked up.	Precautionary statement			
Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.StorageStore in a well-ventilated place. Keep cool. Store locked up.	Prevention	and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective		
	Response			
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.	Storage	Store in a well-ventilated place. Keep cool. Store locked up.		
	Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		

 Material name: Dykem® Metal Marking Texpen®/Dalo® (All Colors)
 SDS US

 Black (16030, 16033, 26033), Blue (16013, 26013), Green (16043, 26043), Orange (16103, 26103), Red (16020, 16023, 26023), White (1 / 11
 1 / 11

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aromatic Solvent		64742-95-6	10 - 20
Kaolin		1332-58-7	10 - 20
Titanium Dioxide		13463-67-7	10 - 20
Hydrocarbon resin		68131-77-1	5 - 15
1,2,4-Trimethylbenzene		95-63-6	5 - 10
Resin		9003-55-8	5 - 10
Carbon Black		1333-86-4	1 - 5
Chlorinated Paraffin		63449-39-8	1 - 5
Mineral Spirits Regular Stoddard Solvent		8052-41-3	1 - 5
Silica, amorphous		7631-86-9	1 - 3
Aluminum Hydroxide		21645-51-2	0.1 - 1
Cumene		98-82-8	0.1 - 1
Light Mineral Spirits		64742-88-7	0.1 - 1
Xylene		1330-20-7	0.1 - 1

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. Narcosis. Behavioral changes. Decrease in motor functions. Direct contact with eyes may cause temporary irritation. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	r Contaminants (29 CFR 1910.1000) Type	Value	Form
Carbon Black (CAS 1333-86-4)	PEL	3.5 mg/m3	
Cumene (CAS 98-82-8)	PEL	245 mg/m3	
		50 ppm	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	PEL	2900 mg/m3	
,		500 ppm	
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
Xylene (CAS 1330-20-7)	PEL	435 mg/m3	
, , , , , , , , , , , , , , , , , , ,		100 ppm	
US. ACGIH Threshold Limit Value	as a state of the		
Components	Туре	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Cumene (CAS 98-82-8)	TWA	50 ppm	
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.

Material name: Dykem® Metal Marking Texpen®/Dalo® (All Colors)

sds Us 3 / 11

Black (16030, 16033, 26033), Blue (16013, 26013), Green (16043, 26043), Orange (16103, 26103), Red (16020, 16023, 26023), White (

US. ACGIH Threshold Lin Components	init values	Туре	Val	ue	Form
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)		TWA	100) ppm	
Titanium Dioxide (CAS 13463-67-7)		TWA	10	mg/m3	
Xylene (CAS 1330-20-7)		STEL TWA) ppm) ppm	
US. NIOSH: Pocket Guid	e to Chemical Haz		100	ppm	
Components		Туре	Val	ue	Form
1,2,4-Trimethylbenzene (CAS 95-63-6)		TWA	125	5 mg/m3	
Carbon Black (CAS 1333-86-4)		TWA		ppm mg/m3	
Cumene (CAS 98-82-8)		TWA		5 mg/m3 ppm	
Kaolin (CAS 1332-58-7)		TWA	5 m	ng/m3 mg/m3	Respirable. Total
Mineral Spirits Regular Stoddard Solvent (CAS		Ceiling)0 mg/m3	
8052-41-3)		TWA	350) mg/m3	
Silica, amorphous (CAS 7631-86-9)		TWA		ng/m3	
Xylene (CAS 1330-20-7)		STEL		5 mg/m3) ppm	
			100		
logical limit values		TWA		5 mg/m3) ppm	
logical limit values ACGIH Biological Expos Components	ure Indices Value	TWA Determinant		5 mg/m3	īme
ACGIH Biological Expos		Determinant Methylhippuric	100 Specimen Creatinine in	5 mg/m3) ppm	īme
ACGIH Biological Expos Components	Value 1.5 g/g	Determinant Methylhippuric acids	100 Specimen	5 mg/m3) ppm Sampling 1	īme
ACGIH Biological Expos Components Xylene (CAS 1330-20-7)	Value 1.5 g/g	Determinant Methylhippuric acids	100 Specimen Creatinine in	5 mg/m3) ppm Sampling 1	īme
ACGIH Biological Expos Components Xylene (CAS 1330-20-7) * - For sampling details, pl posure guidelines US - California OELs: Sk	Value 1.5 g/g ease see the sourc in designation	Determinant Methylhippuric acids e document.	100 Specimen Creatinine in urine	5 mg/m3) ppm Sampling 1 *	īme
ACGIH Biological Expos Components Xylene (CAS 1330-20-7) * - For sampling details, pl posure guidelines US - California OELs: Sk Cumene (CAS 98-82-	Value 1.5 g/g ease see the sourc in designation 8)	Determinant Methylhippuric acids e document. Can be	100 Specimen Creatinine in	5 mg/m3) ppm Sampling 1 *	īme
ACGIH Biological Expos Components Xylene (CAS 1330-20-7) * - For sampling details, pl cosure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82-	Value 1.5 g/g ease see the sourc in designation 8) s: Skin designation 8)	Determinant Methylhippuric acids e document. Can be n applies	100 Specimen Creatinine in urine	gh the skin.	īme
ACGIH Biological Expos Components Xylene (CAS 1330-20-7) * - For sampling details, pl posure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S	Value 1.5 g/g ease see the sourc in designation 8) s: Skin designation 8) kin designation	Determinant Methylhippuric acids e document. can be n applies Skin de	100 Specimen Creatinine in urine	gh the skin.	⁻ ime
ACGIH Biological Expos Components Xylene (CAS 1330-20-7) * - For sampling details, pl cosure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82-	Value 1.5 g/g ease see the sourc in designation 8) s: Skin designation 8) kin designation 8)	Determinant Methylhippuric acids e document. Can be n applies Skin de Can be	100 Specimen Creatinine in urine e absorbed throug	gh the skin.	^r ime
ACGIH Biological Expos Components Xylene (CAS 1330-20-7) * - For sampling details, pl cosure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82-	Value 1.5 g/g ease see the sourc in designation 8) s: Skin designation 8) kin designation 8) to Chemical Haza 8)	Determinant Methylhippuric acids e document. Can be n applies Skin de Can be rds: Skin designation Can be	100 Specimen Creatinine in urine absorbed throug absorbed throug absorbed throug absorbed throug	gh the skin. s. gh the skin.	Time
ACGIH Biological Expos Components Xylene (CAS 1330-20-7) * - For sampling details, pl cosure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82-	Value 1.5 g/g ease see the sourc in designation 8) s: Skin designation 8) kin designation 8) to Chemical Haza 8) its for Air Contami	Determinant Methylhippuric acids e document. Can be skin de Can be rds: Skin designation Can be inants (29 CFR 1910.10	100 Specimen Creatinine in urine absorbed throug absorbed throug absorbed throug absorbed throug	s. mg/m3 ppm Sampling 1 * gh the skin. s. gh the skin. gh the skin.	- ime
ACGIH Biological Expos Components Xylene (CAS 1330-20-7) * - For sampling details, pl cosure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82-	Value 1.5 g/g ease see the sourc in designation 8) s: Skin designation 8) kin designation 8) to Chemical Haza 8) its for Air Contami 8) Explosion-pro changes per h applicable, us maintain airbo	Determinant Methylhippuric acids e document. Can be n applies Skin de Can be rds: Skin designation Can be inants (29 CFR 1910.10 Can be of general and local exha bour) should be used. Ve e process enclosures, lo	100 Specimen Creatinine in urine e absorbed throug e absorbed throug e absorbed throug e absorbed throug aust ventilation. O entilation rates sh cal exhaust venti nended exposure	s mg/m3 ppm Sampling 1 * gh the skin. s. gh the skin. gh the skin. Good general fould be match idation, or othe e limits. If expo	ventilation (typically 10 air led to conditions. If r engineering controls to
ACGIH Biological Expos Components Xylene (CAS 1330-20-7) * - For sampling details, pl posure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82- US. OSHA Table Z-1 Lim Cumene (CAS 98-82-	Value 1.5 g/g ease see the sourc in designation 8) s: Skin designation 8) kin designation 8) to Chemical Haza 8) its for Air Contami 8) Explosion-pro changes per h applicable, us maintain airbo established, n res, such as perso	Determinant Methylhippuric acids e document. Can be n applies Skin de rds: Skin designation Can be inants (29 CFR 1910.10 Can be of general and local exha nour) should be used. Ve e process enclosures, lo orne levels below recomm naintain airborne levels to	100 Specimen Creatinine in urine absorbed throug absorbed throug absorbed throug absorbed throug absorbed throug aust ventilation. Of antilation rates sh cal exhaust ventil nended exposure o an acceptable l ent	s mg/m3 ppm Sampling 1 * gh the skin. s. gh the skin. gh the skin. Good general fould be match idation, or othe e limits. If expo	ventilation (typically 10 air red to conditions. If
ACGIH Biological Expos Components Xylene (CAS 1330-20-7) * - For sampling details, pl cosure guidelines US - California OELs: Sk Cumene (CAS 98-82- US - Minnesota Haz Subs Cumene (CAS 98-82- US - Tennessee OELs: S Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82- US NIOSH Pocket Guide Cumene (CAS 98-82- US. OSHA Table Z-1 Lim Cumene (CAS 98-82- propriate engineering ntrols	Value 1.5 g/g ease see the source in designation 8) s: Skin designation 8) kin designation 8) to Chemical Haza 8) its for Air Contamid 8) Explosion-pro- changes per happlicable, us maintain airbor established, m res, such as perso Wear safety g	Determinant Methylhippuric acids e document. Can be n applies Skin de rds: Skin designation Can be rds: Skin designation Can be inants (29 CFR 1910.10 Can be of general and local exha hour) should be used. Ve e process enclosures, lo prine levels below recomm naintain airborne levels to nal protective equipme	100 Specimen Creatinine in urine absorbed throug absorbed throug absorbed throug absorbed throug absorbed throug aust ventilation. Of antilation rates sh cal exhaust ventil nended exposure o an acceptable I ent (or goggles).	s mg/m3 ppm Sampling 1 * gh the skin. s. gh the skin. gh the skin. Good general fould be match idation, or othe e limits. If expo	ventilation (typically 10 air led to conditions. If r engineering controls to

Respiratory protection	Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

5. Thysical and chemical p	soperites
Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Various.
Odor	Aromatic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	318 - 338 °F (158.89 - 170 °C)
Flash point	108.0 °F (42.2 °C) Tag Closed Cup
Evaporation rate	< 1 (BuAc = 1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.9 %
Flammability limit - upper (%)	12.3 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	> 1 (air = 1)
Relative density	> 1 @70°F
Solubility(ies)	
Solubility (water)	Slightly soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC	J2143 Blue: 30.78%, 399 g/L, A451M Orange: 28.97%, 352 g/L; J1694 White: 21.49%, 321 g/L J3070 Black: 30.97%, 382 g/L; Y916 Green: 30.9%, 375 g/L; J3076 Red: 35.58%, 430 g/L; A419M Yellow: 28.73%, 351 g/L;
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of bazardous	Hazardous polymerization does not occur

Possibility of hazardous Hazardous polymerization does not occur. reactions

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. Narcosis. Behavioral changes. Decrease in motor functions.

Information on toxicological effects

Acute toxicity

May be fatal if swallowed and enters airways.

Addie toxiony	may be tatal in offalloffed and	
Components	Species Test Results	
1,2,4-Trimethylbenzene (C	AS 95-63-6)	
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Oral		
LD50	Rat	3280 mg/kg
Aluminum Hydroxide (CAS	21645-51-2)	
Acute		
Oral		"
LD50	Rat	> 2000 mg/kg
Aromatic Solvent (CAS 64)	742-95-6)	
<u>Acute</u>		
Dermal LD50	Dabbit	1000 mg//g 24 llours
	Rabbit	> 1900 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i> LC50	Rat	> 4.96 mg/l, 4 Hours
Oral		> +.30 mg/l, + hours
LD50	Rat	4820 mg/kg
CALCIUM ROSINATE (CA		
Acute	0.0007-10-0)	
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Oral		
LD50	Rat	> 1000 mg/kg
Cumene (CAS 98-82-8)		
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg, 24 Hours
Light Mineral Spirits (CAS	64742-88-7)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg

sds Us 6 / 11

Components	Species	Test Results		
Inhalation				
Vapor				
LC50	Rat	> 4.5 mg/l, 4 Hours		
Silica, amorphous (CAS 7631-86-9	9)			
Acute				
Dermal LD50	Dabbit			
	Rabbit	> 2000 mg/kg, 24 Hours		
Oral LD50	Det	. 2200 mall/a		
	Rat	> 3300 mg/kg		
Titanium Dioxide (CAS 13463-67-7)			
<u>Acute</u> Inhalation				
LC50	Rat	> 2.28 mg/l, 4 Hours		
Oral	- Tat			
LD50	Rat	> 2000 mg/kg		
Xylene (CAS 1330-20-7)				
<u>Acute</u>				
Oral				
LD50	Rat	3523 mg/kg		
Skin corrosion/irritation	Prolonged skin contact may c	ause temporary irritation		
Serious eye damage/eye	Direct contact with eyes may			
irritation				
Respiratory or skin sensitization	l			
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected t	o cause skin sensitization.		
Germ cell mutagenicity	May cause genetic defects.			
Carcinogenicity	May cause cancer.			
ACGIH Carcinogens				
Carbon Black (CAS 1333-	-86-4)	A3 Confirmed animal carcinogen with unknown relevance to		
Kaolin (CAS 1332-58-7)		humans. A4 Not classifiable as a human carcinogen.		
Titanium Dioxide (CAS 13	463-67-7)	A4 Not classifiable as a human carcinogen.		
Xylene (CAS 1330-20-7)		A4 Not classifiable as a human carcinogen.		
	Evaluation of Carcinogenicity			
Carbon Black (CAS 1333- Cumene (CAS 98-82-8)	-86-4)	2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans.		
Resin (CAS 9003-55-8)		3 Not classifiable as to carcinogenicity to humans.		
Silica, amorphous (CAS 7		3 Not classifiable as to carcinogenicity to humans.		
Titanium Dioxide (CAS 13 Xylene (CAS 1330-20-7)	3463-67-7)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.		
	d Substances (29 CFR 1910.1			
Not regulated.	(·		
US. National Toxicology Pro	gram (NTP) Report on Carcin	ogens		
Cumene (CAS 98-82-8)		Reasonably Anticipated to be a Human Carcinogen.		
Reproductive toxicity		o cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Causes damage to organs (co	entral nervous system) through prolonged or repeated exposure.		
Aspiration hazard	May be fatal if swallowed and	enters airways.		
Chronic effects	Causes damage to organs the harmful. Prolonged exposure	ough prolonged or repeated exposure. Prolonged inhalation may be may cause chronic effects.		
Further information	Symptoms may be delayed.			

Material name: Dykem® Metal Marking Texpen®/Dalo® (All Colors)

Black (16030, 16033, 26033), Blue (16013, 26013), Green (16043, 26043), Orange (16103, 26103), Red (16020, 16023, 26023), White (*

SDS US

7 / 11

2 Ecological information

Ecotoxicity		ct is not classified as environmentally hazardo			
Components	possibility	that large or frequent spills can have a harmfu Species	I or damaging effect on the environment Test Results		
1,2,4-Trimethylbenzene (CA	S 95-63-6)	•			
Aquatic	,				
Fish	LC50	Fathead minnow (Pimephales promelas)	7.19 - 8.28 mg/l, 96 hours		
Chlorinated Paraffin (CAS 63	3449-39-8)				
Aquatic					
Fish	LC50	Bluegill (Lepomis macrochirus)	> 0.1 mg/l, 96 hours		
Cumene (CAS 98-82-8)					
Aquatic					
Crustacea	EC50	Brine shrimp (Artemia sp.)	3.55 - 11.29 mg/l, 48 hours		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.7 mg/l, 96 hours		
Titanium Dioxide (CAS 1346	3-67-7)				
Aquatic					
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours		
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours		
Xylene (CAS 1330-20-7)					
Aquatic					
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours		
Bioaccumulative potential Partition coefficient n-octa Cumene Mineral Spirits Regular Stode	-	og Kow) 3.66 3.16 - 7.15			
Xylene		3.12 - 3.2			
lobility in soil	No data av				
Other adverse effects	None know	vn.			
3. Disposal consideratio	ons				
Disposal instructions	Collect and contents/c	d reclaim or dispose in sealed containers at lic ontainer in accordance with local/regional/nat	censed waste disposal site. Dispose of ional/international regulations.		
ocal disposal regulations	Dispose in	accordance with all applicable regulations.			
Hazardous waste code	disposal co				
Naste from residues / unused products	product re	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).			
Contaminated packaging		tied containers may retain product residue, fo mpty containers should be taken to an approv			
4. Transport information	1				
ют					
UN number	UN1263				
UN proper shipping name Transport hazard class(es)	Paint				
Class	3				
Subsidiary risk	- 3				

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

B1, B52, IB3, T2, TP1, TP29

3

|||

150

Label(s)

Special provisions

Packing group

SDS US 8 / 11

Packaging non bulk	173
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1263
UN proper shipping name	Paint
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1263
UN proper chipping perce	PAINT
UN proper shipping name	
Transport hazard class(es)	
Transport hazard class(es) Class	3
Transport hazard class(es) Class Subsidiary risk	-
Transport hazard class(es) Class Subsidiary risk Packing group	3 - III
Transport hazard class(es) Class Subsidiary risk	-
Transport hazard class(es) Class Subsidiary risk Packing group	- III No.
Transport hazard class(es) Class Subsidiary risk Packing group Environmental hazards Marine pollutant EmS	- III No. F-E, <u>S-E</u>
Transport hazard class(es) Class Subsidiary risk Packing group Environmental hazards Marine pollutant EmS Special precautions for user	- III No. F-E, <u>S-E</u> Read safety instructions, SDS and emergency procedures before handling.
Transport hazard class(es) Class Subsidiary risk Packing group Environmental hazards Marine pollutant EmS Special precautions for user Transport in bulk according to	- III No. F-E, <u>S-E</u>
Transport hazard class(es) Class Subsidiary risk Packing group Environmental hazards Marine pollutant EmS Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and	- III No. F-E, <u>S-E</u> Read safety instructions, SDS and emergency procedures before handling.
Transport hazard class(es) Class Subsidiary risk Packing group Environmental hazards Marine pollutant EmS Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	- III No. F-E, <u>S-E</u> Read safety instructions, SDS and emergency procedures before handling.
Transport hazard class(es) Class Subsidiary risk Packing group Environmental hazards Marine pollutant EmS Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and	- III No. F-E, <u>S-E</u> Read safety instructions, SDS and emergency procedures before handling.



IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

sds Us 9 / 11

9-8) Short-Chain Paraffins Act 40 CFR 302.4) Listed. Listed. Ation Press (29 CFR 1910.1001-1052) tion Act of 1986 (SARA) Stance ble (gases, aerosols, liquids, or solic ell mutagenicity	Chlorinated Paraffins (SCCPs) and Other Chlorinated tion Plan
Listed. Listed. ation nces (29 CFR 1910.1001-1052) tion Act of 1986 (SARA) stance ble (gases, aerosols, liquids, or solic	
Listed. ation nces (29 CFR 1910.1001-1052) tion Act of 1986 (SARA) stance ble (gases, aerosols, liquids, or solic	
ation nces (29 CFR 1910.1001-1052) tion Act of 1986 (SARA) stance ble (gases, aerosols, liquids, or solic	
nces (29 CFR 1910.1001-1052) tion Act of 1986 (SARA) stance ble (gases, aerosols, liquids, or solic	
tion Act of 1986 (SARA) stance ble (gases, aerosols, liquids, or solic	
stance ble (gases, aerosols, liquids, or solic	
ble (gases, aerosols, liquids, or solic	
	(ah
genicity target organ toxicity (single or repea on hazard	
	% by wt.
95-63-6	5 - 10
rdous Air Pollutants (HAPS) List	
cidental Release Prevention (40 C	CFR 68.130)
ılated.	
nity Right-to-Know Act	
3-6) 13-0) blvent (CAS 8052-41-3))	
VG: This product contains a chemica	al known to the State of California to cause cancer.
Listed date/Carcinogenic substand	се
Listed: April 6	
als List. Safer Consumer Product	ts Regulations (Cal. Code Regs, tit. 22, 69502.3,
95-63-6) 95-6)) 49-39-8) rd Solvent (CAS 8052-41-3) 67-7)	
ry name	On inventory (yes/no)
, y name	, (,,-,
	CAS number 95-63-6 ardous Air Pollutants (HAPs) List cidental Release Prevention (40 C alated. http Right-to-Know Act 3-6) 3-0) blvent (CAS 8052-41-3)) NG: This product contains a chemical Listed date/Carcinogenic substance Listed: April cals List. Safer Consumer Product 95-63-6) 95-63-6) 95-63-8) rd Solvent (CAS 8052-41-3)

Country(s) or region	Inventory name On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	04-16-2018
Version #	01
Disclaimer	ITW Pro Brands cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	Product and Company Identification: Alternate Trade Names Hazard(s) identification: Response Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Regulatory information: California Proposition 65

Product Name: DuPont Direx 4L Herbicide CAS Number: Manufacturer: DuPont SDS Date: 11/1/2012

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: DOW CORNING 4 ELECTRICAL INSULATING COMPOUND CAS Number: Manufacturer: Dow Corning Corporation SDS Date: 9/14/2017

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: Chevron Drive Train Fluid - MP **CAS Number: Manufacturer:** Chevron Products Company a division of Chevron U.S.A. Inc. **SDS Date:** 8/27/2014

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: Epoxy Mastic Aluminum II - 100 (Part A) **CAS Number: Manufacturer:** THE SHERWIN-WILLIAMS COMPANY **SDS Date:** 9/8/2017

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: Epoxy Mastic Aluminum II (Part B) Hardener **CAS Number: Manufacturer:** THE SHERWIN-WILLIAMS COMPANY **SDS Date:** 6/10/2019

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.



MATERIAL SAFETY DATA SHEET

®Champion Bow Tie logo is a trademark of Federal-Mogul Corporation, used under license.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FUEL ADDITIVE - 2 CYCLE AIR COOLED ENGINE OIL

Synonyms:

CHAMPION® 2 CYCLE POWER EQUIPMENT WITH FUEL STABILIZER

Company Identification

Champion Brands, L.L.C., 1001 Golden Drive, Clinton, MO 64735 PHONE: 800-821-5693 WEBSITE: <u>www.championbrands.com</u>

CAS Registry Number	Not Applicable
Synonyms	None
Generic/Chemical Name	Mixture
Product Type	Petroleum Based Lubricating Oil
Preparation Date	April 10, 2008
Transportation Emergency Re	sponse
CHEMTREC: (800) 424-9300	
Product Information	
Product Information and MSDS	Requests: (800) 821-5693 and www.championbrands.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS	EU	WHMIS Reg?	%wt
Mineral Oil (Severely Hydrotreated)	Mixture	Not controlled under DSD (Europe)	No	78 - 100
Petroleum Distillates	8052-41-3	R10, Xn;R65, Xi;R37	Yes	< 20
Polyolefin polyamine succinimide	polymer	R53	Yes	<1
Calcium branched chain alkyl phenate, Mannich	polymer	Xi/R43	Yes	<1

3. HAZARD IDENTIFICATION

CONTAINS INGREDIENTS CONSIDERED HAZARDOUS. SEE SECTIONS 8 AND 11 FOR MORE INFORMATION.

KEEP OUT OF REACH OF CHILDREN!

Primary Hazards and Critical Effects: WARNING! CAUSES EYE IRRITATION. **Environmental Hazards:** Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

lazardous Material Information System (U.S.A.):	Health: 1	Flammability: 2	Reactivity: 0
---	-----------	-----------------	---------------

4. FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice. **Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Classified by OSHA as combustible.

NFPA RATINGS: Health: 1 Flammability: 2 Reactivity: 0

FLAMMABLE PROPERTIES:

Flashpoint: >72°C (>162°F) ASTM D93 PMCC Autoignition: NDA Flammability (Explosive) Limits (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

6. ACCIDENTAL RELEASE INFORMATION

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

7. HANDLING AND STORAGE

Precautionary Measures: KEEP OUT OF REACH OF CHILDREN! Avoid contact with eyes. Do not ingest. Avoid breathing mist. Keep container closed. Wash hands if contact due to handling.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Should not accumulate static charge if used according to label directions.

Container Warnings: Container is not designed to contain pressure. Empty containers should be completely drained, closed, and disposed of properly.

8. EXPOSURE CONTROL/PERSONAL PROTECTIVE EQUIPMENT

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Sections 3, 11, 12, 15), and other substances in selecting personal protective equipment. The user should read and understand all instructions and hazards on the products label before use.

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

Respiratory Protection: No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured

concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Ingredient Name & CAS#	OEL U.S.A	OEL Canada	OEL Europe
Mineral Oil (Severely Hydrotreated) Mixture	ACGIH (United States) TWA: 5 mg/m3 STEL: 10 mg/m3 OSHA (United States) TWA: 5 mg/m3	TWA: 5 mg/m3 STEL: 10 mg/m3	EH40 (UK) (Europe). TWA: 5 mg/m3 8 hrs.
Petroleum Distillates CAS 8052-41-3	ACGIH TLV (United States). Skin TWA: 200 mg/m3 8 hour(s).	Not available.	ACGIH TLV (United States). Skin TWA: 200 mg/m3 8 hour(s).

9. PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification. **Appearance and Odor:** Green, slight oil odor

pH: NA

Vapor Pressure: <0.01 mmHg @ 100 °F Vapor Density (Air = 1): >1 Solubility: Soluble in hydrocarbons; insoluble in water Specific Gravity: 0.868 @ 15.6 °C / 15.6 °C Viscosity: >40 cSt @ 40°C (104°F)

10. STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides. **Hazardous Decomposition Products:** Hydrogen Sulfide (Temperatures >149 °F (65 °C)) **Hazardous Polymerization:** Hazardous polymerization will not occur.

11. TOXILOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

Eye Irritation: Eye irritation based on evaluation of data for similar materials or product components.

Skin Irritation: No skin irritation based on evaluation of data for similar materials or product components. **Skin Sensitization:** No product toxicology data available.

Acute Dermal Toxicity: Dermal toxicity based on evaluation of data for similar materials or product components. Acute Oral Toxicity: Oral toxicity based on evaluation of data for similar materials or product components. Acute Inhalation Toxicity: Inhalation of mist vapors at elevated temperatures may cause respiratory irritation.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains mineral oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

12. ECOLOGICAL INFORMATION

ECOTOXICITY

May be harmful to aquatic organisms. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

ENVIRONMENTAL FATE

This material is not expected to be readily biodegradable.

13. DISPOSAL INFORMATION

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods. (See B.C. Reg. GY/92 Waste Management Act; R.R.O. 1990, Reg. 347 General-Waste Management; C.C.SM.c. W40 The Waste Reduction and Prevention Act; N.S. Reg. 51/95 and N.S. Reg. 179/96 for examples of Provincial legislation.)

14. TRANSPORTATION INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

U.S. Department of Transportation

NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR

Land transport ADR/RID (cross-border)

NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER ADR/RID

Maritime transport IMDG:

NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER IMO/IMDG

15. REGULATORY INFORMATION

EU Regulations

Hazard: Irritant, Dangerous for the environment

Risk Phrases

R36- Irritating to eyes

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **Safety Phrases**

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Additional Warning: contains calcium branched chain alkyl phenate, Mannich <1% wt

US Regulations

SARA 313 No chemicals are present above reporting threshold.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: immediate health hazard, Delayed health hazard.

State

California prop. 65: This product does not contain ingredients which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

New Jersey

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Lubricating oil)

Canadian Regulations

WHMIS (Classification) : Class D-2B: Material causing other toxic effects (TOXIC).

Chemical Inventory Status:

United States: All components on TSCA Inventory Europe : All components on EINECS Australia : One or more components not found on NICNAS China: All components on IECSC Canada: All components on DSL Japan : All components on METI Korea : All components on ECL Philippines: All components on PICCS

16. DISCLAIMER

REVISION STATEMENT: Revision updates many sections and the MSDS should be read in its entirety. ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

- TLV
 Threshold Limit Value
 TWA
 Time Weighted Average

 STEL
 Short-term Exposure Limit
 PEL
 Permissible Exposure Limit
- CHA Champion LLC CAS Chemical Abstract Service Number NDA - No Data Available NA - Not Applicable
- <= Less Than or Equal To >= Greater Than or Equal To

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by Champion LLC, 1001 Golden Drive, Clinton, Missouri 64735.

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best knowledge of Champion Brands, L.L.C. Champion Brands, L.L.C., makes no warrantywhatsoever expressed or implied of merchantability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. Champion Brands, L.L.C., assumes no legal responsibility for use or reliance upon this data. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Product Name: G-FORCE WASHROOM CLEANER CAS Number: Manufacturer: The Butcher Company SDS Date: 1/23/2004

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.



HIGH PERFORMANCE THREAD SEALANT w/PTFE Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Number: 80-136,80-137 High Performance Thread Sealant with PTFE

Manufacturer / Supplier: Kimball Midwest 4800 Roberts Road

Columbus, Oh 43228

Phone: 800-233-1294 Web: kimballmidwest.com

Emergency Phone Number: 1-800-424-9300 Product Use: thread sealant and other uses. Restriction on Use: None known

SDS Date of Preparation: Sept 1, 2015

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification (Hazcom 2012): Not Hazardous

Label Elements:

Not hazardous in accordance with the OSHA Hazard Communication Standard (29CFR 1910.1200).

Hazard Phrases: None

Precautionary Phrases: None

Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	%
Kaolin clay	1332-58-7	35-45
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-30
Calcium carbonate	471-34-1	10-15
Titanium Dioxide (bound in sealant)	13463-67-7	5-10
PTFE	9002-84-0	10-20

The specific identity and/or exact percentage of composition has been withheld as a trade secret.

Page 1 of 5

SECTION 4: FIRST AID MEASURES

Eye: Flush eyes with water, holding the eyelids apart. Get medical attention if irritation develops or persists.

Skin: Wash thoroughly with plenty of water. Get medical attention if irritation persists.

Inhalation: Remove to fresh air and keep comfortable for breathing. If irritation occurs, get medical attention.

Ingestion: If large amounts ingested, seek medical attention.

Most Important symptoms and effects, both acute and delayed: None known.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention generally not required.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media: Use extinguishing media suitable for the surrounding environment.

Special Hazards Arising from the Chemical: Hazardous decomposition products may yield oxides of carbon and calcium, and fumes of fluorides.

Special Equipment and Precautions for Fire-Fighters: Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate personal protective equipment. Use caution: slip hazard.

Environmental Hazards: Report spills and releases as required to appropriate authorities.

Methods and Material for Containment and Cleaning Up: Because of its viscous nature, this product is not expected to leak or spill. Collect liquid spill with an inert absorbent material and place into a suitable container for disposal. Clean area thoroughly with mineral spirits.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged skin contact Do not transfer to unlabeled containers.

Conditions for Safe Storage, Including any Incompatibilities: Store away from extreme heat and open flames. Store away from concentrated oxygen.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Kaolin clay	2 mg/m3 TWA ACGIH TLV (respirable) 15 mg/m3 TWA OSHA PEL (total dust) 5 mg/m3 TWA OSHA PEL (respirable fraction)
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA ACHIH TLV (inhalable) 5 mg/m3 TWA OSHA PEL
Calcium carbonate	15 mg/m3 TWA OSHA PEL (total dust) 5 mg/m3 TWA OSHA PEL (respirable fraction)
Titanium Dioxide	10 mg/m3 TWA ACGIH TLV (respirable) 15 mg/m3 TWA OSHA PEL (total dust)
PTFE	15mg/m3 TWA OSHA PEL (as respirable dust)

Page 2 of 5

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the exposure limits. If the product is used at high temperatures, local exhaust ventilation may be required.

Individual Protection Measures:

Respiratory Protection: In operations where the occupational exposure limits are exceeded, a NIOSH approved respirator with organic vapor/particulate cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin Protection: Impervious gloves such as rubber or nitrile recommended where needed to avoid prolonged skin contact .

Eye Protection: Safety glasses or goggles recommended where needed to avoid eye contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White granular paste	Vapor Density (air = 1): Not available
Odor: Mild petroleum like odor	Specific Gravity: 1.5
Odor Threshold: Not established	Water Solubility: Not soluble
pH: Neutral	Octanol/Water Partition Coefficient: Not
	available
Melting Point/Freezing Point: Not available	Autoignition Temperature: Not available
Boiling Point: >650°F	Decomposition Temperature: Not available
Flash Point: >350°F	Viscosity: Not available
Evaporation Rate: Not available	Explosion Properties: None
Flammable Limits:	Oxidizing Properties: Not oxidizing
LEL: Not established	
UEL: Not established	
Vapor Pressure: Not established	Aerosol Fire Protection Level: Not applicable
VOC Content: <0.1%	Flammability (solid, gas): Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known

Conditions to Avoid: Temperatures exceeding 550°F

Incompatible Materials: Avoid concentrated oxygen

Hazardous Decomposition Products: Hazardous decomposition products may yield oxides of carbon and calcium, and fumes of fluorides.

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eye: May cause mild irritation.

Skin: Prolonged contact may cause irritation and drying of the skin.

Inhalation: No adverse effects expected at ambient temperatures. Inhalation of vapors and fumes from thermal decomposition may cause respiratory irritation.

Page 3 of 5

Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea.

Chronic Hazards: Prolonged inhalation of thermal decomposition products may result in lung damage.

Carcinogen Status: Titanium dioxide is listed by IARC as a group 2B carcinogen (possible human carcinogen). Titanium dioxide is only known to cause cancer by inhalation. The titanium dioxide is bound in the product matrix so inhalation exposure does not occur during use. None of the other components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH, or the EU CLP.

Acute Toxicity Values:

Distillates (petroleum), hydrotreated heavy naphthenic: Oral rat LD50 > 5000 mg/kg, inhalation rat LC50: 2.18 mg/L, dermal rabbit LD50 > 2000 mg/kg

Calcium Carbonate: Oral rat LD50 > 2000 mg/kg, inhalation rat LC50 > 3 mg/L, dermal rat LD50 > 2000 mg/kg

Titanium dioxide: Oral mouse LD50 > 5000 mg/kg, inhalation rat LC50 > 6.82 mg/L

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Distillates (petroleum), hydrotreated heavy naphthenic: Pimephales promelas LL50 > 100 mg/L/96hr. Calcium Carbonate: Oncorhynchus mykiss LC50 > 100 mg/L/96hr

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, regional and national regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Proper Shipping Name: Not regulated DOT Technical Name: None DOT Hazard Class: None UN Number: None DOT Labels Required (49CFR172.101): None

IMDG Shipping Description: Not regulated ID Number: None Hazard Class: None Packing Group: None Labels Required: None Marking Required: None Placards Required: None

ICAO/IATA Shipping Description: Not regulated ID Number: None Hazard Class: None Packing Group: None

SECTION 15: REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question.

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to reporting requirements under CERCLA. However, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Not Hazardous

SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: None

EPA TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

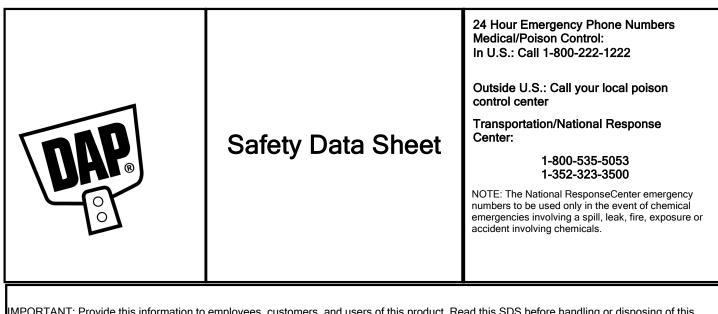
CALIFORNIA PROPOSITION 65: This product is not known to contain listed chemicals.

SECTION 16: OTHER INFORMATION

Revision Summary: New format to comply with OSHA Hazcom 2012

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



IMPORTANT: Provide this information to employees, customers, and users of this product. Read this SDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this SDS are further described in Section 16.

1. Identification

This Safety Data Sheet is available in American Spanish upon request. Los Datos de Serguridad pueden obtenerse en Espanol si lo riquiere.

Product Name:	33 Window Glazing	Revision Date:	9/6/2018
Product UPC Number:	070798120198, 070798121201, 070798121218, 070798121225, 070798121249	Supercedes Date:	6/19/2015
Product Use/Class:	Glazing	SDS No:	00010401001
Manufacturer:	DAP Products Inc. 2400 Boston Street Suite 200 Baltimore, MD 21224-4723 888-327-8477 (non - emergency matters) SDS Coordinator: MSDS@dap.com Emergency Telephone: Transportation: 1-800-535 -5053 1-352-323-3500 Poison Control: 1-800-222-1222	Preparer:	Regulatory and Environmental Affairs

2. Hazards Identification

GHS Classification

Not a hazardous substance or mixture.

Symbol(s) of Product

None

Signal Word

Not a hazardous substance or mixture.

Possible Hazards

8% of the mixture consists of ingredients of unknown acute toxicity

3. Composition/Information on Ingredients

<u>Chemical Name</u>	CAS-No.	<u>Wt. %</u>	GHS Symbols	GHS Statements
Limestone	1317-65-3	65-85	No Information	No Information
Soya oil	8001-22-7	3-7	No Information	No Information
Talc (non-asbestiform)	14807-96-6	1-5	No Information	No Information
Lubricating petroleum oil	72623-86-0	1-5	GHS07	H332
Petroleum distillates	64741-88-4	1-5	GHS06	H331
Quartz	14808-60-7	0.1-1.0	GHS07	H302
Titanium dioxide	13463-67-7	0.1-1.0	No Information	No Information

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid Measures

FIRST AID - INHALATION: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

FIRST AID - SKIN CONTACT: Remove and wash contaminated clothing. Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical aid if symptoms persist.

FIRST AID - EYE CONTACT: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

FIRST AID - INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Store away from caustics and oxidizers.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam

6. Accidental Release Measures

ENVIRONMENTAL MEASURES: No Information

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Use absorbent material or scrape up dried material and place in container.

7. Handling and Storage

HANDLING: KEEP OUT OF REACH OF CHILDREN!DO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use in well ventilated area. Ensure fresh air entry during application and drying. Wash thoroughly after handling.

STORAGE: Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Store away from caustics and oxidizers. Keep containers tightly closed.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits		
Chemical Name	ACGIH TLV-TWA	

ACGIH-TLV STEL

OSHA PEL-TWA OSH

Limestone	N.E.	N.E.	15 mg/m3 TWA total dust, 5 mg/m3 TWA respirable fraction	N.E. 3
Soya oil	N.E.	N.E.	N.E.	N.E.
Talc (non-asbestiform)	2 mg/m3 TWA particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	N.E.	N.E.	N.E.
Lubricating petroleum oil	N.E.	N.E.	N.E.	N.E.
Petroleum distillates	N.E.	N.E.	N.E.	N.E.
Quartz	0.025 mg/m3 TWA respirable particulate matter	N.E.	50 μg/m3 TWA	N.E.
Titanium dioxide	10 mg/m3 TWA	N.E.	15 mg/m3 TWA total dust	N.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

Personal Protection



RESPIRATORY PROTECTION: A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10-hour work shift.



SKIN PROTECTION: Solvent-resistant gloves.



EYE PROTECTION: Goggles or safety glasses with side shields.



OTHER PROTECTIVE EQUIPMENT: Provide eyewash and solvent impervious apron if body contact may occur.



HYGIENIC PRACTICES: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. Do not smoke.

9. Physical and Chemical Properties

Appearance:	White to Off-White	Physic
Odor:	Slight	Odor ⁻
Density, g/cm3:	2.16 - 2.22	pH:
Freeze Point, °C:	Not Established	Viscos
Solubility in Water:	No Information	Partiti
Decomposition Temperature, °C:	Not Established	Explos
Boiling Range, °C:	N.I N.I.	Auto-I
Minimum Flash Point, °C:	93.3	Vapor
Evaporation Rate:	Slower Than n-Butyl Acetate	Flash
Vapor Density:	Heavier Than Air	Flamn
Combustibility:	Does not support combustion	

Physical State: Odor Threshold: pH: Viscosity (mPa.s): Partition Coeff., n-octanol/water: Explosive Limits, %: Auto-Ignition Temperature, °C Vapor Pressure, mmHg: Flash Method: Flammability: Paste Not Established Not Applicable Not Established Not Established N.I. - N.I. Not Established Not Established Seta Closed Cup Non-Flammable

(See "Other information" Section for abbreviation legend) (If product is an aerosol, the flash point stated above is that of the propellant.)

10. Stability and Reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Incompatible with strong bases and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COX, NOX.

11. Toxicological Information

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation may cause mild irritation to the respiratory tract (nose, mouth, mucous membranes). Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated contact with skin may cause mild irritation.

EFFECT OF OVEREXPOSURE - EYE CONTACT: Not expected to cause eye problems under normal use conditions. Direct eye contact may cause irritation.

EFFECT OF OVEREXPOSURE - INGESTION: Single dose oral toxicity is low. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of large amounts may cause injury. Ingestion of large amounts may cause nausea, gastrointestinal upset, and pain. May cause liver and kidney damage, and central nervous system depression.

CARCINOGENICITY: No Information

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: Prolonged and repeated skin contact may cause irritation and possibly dermatitis. The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2). Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Skin Contact

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u>	Chemical Name
1317-65-3	Limestone

Oral LD50 6450 mg/kg Rat Dermal LD50 >2000 mg/kg Vapor LC50 >20 mg/L SDS Number: 00010401001

8001-22-7	Soya oil	>16500 mg/kg Rat	>2000 mg/kg	>20 mg/L
14807-96-6	Talc (non-asbestiform)	N.I.	N.I.	N.I.
72623-86-0	Lubricating petroleum oil	>5000 mg/kg Rat	>2000 mg/kg Rabbit	N.I.
64741-88-4	Petroleum distillates	>5000 mg/kg Rat	>2000 mg/kg Rabbit	2.18 mg/L Rat
14808-60-7	Quartz	500 mg/kg Rat	>2000 mg/kg	>20 mg/L
13463-67-7	Titanium dioxide	>10000 mg/kg Rat	>5000 mg/kg Rabbit	>20 mg/L

N.I. = No Information

12. Ecological Information

ECOLOGICAL INFORMATION: Ecological injuries are not known or expected under normal use.

13. Disposal Information

DISPOSAL INFORMATION: This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261. Dispose as hazardous waste according to all local, state, federal and provincial regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No Information

DOT UN/NA Number:	N.A.
DOT Proper Shipping Name: DOT Technical Name:	Not Regulated. N.A.
DOT Hazard Class:	N.A.
Hazard SubClass:	N.A.
Packing Group:	N.A.

15. Regulatory Information

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt. This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

16. Other Information

Revision Date:		9/6/2018	Supersedes Date: 6/19/2015
Reason for revision:		Revision Description Changed Product Composition Changed Substance and/or Product Properties Changed in Section(s): 01 - Product Information 09 - Physical & Chemical Information 15 - Regulatory Information 16 - Other Information Revision Statement(s) Changed	
Datasheet produced by: HMIS Ratings:		Regulatory Department	
Health:	Flammability:	Reactivity:	Personal Protection:
1	1	0	Х

VOC Less Water Less Exempt Solvent, g/L: 16.2

VOC Material, g/L: 16

VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 0.7

VOC Actual, Wt/Wt%: 0.7

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H302	Harmful if swallowed.
H331	Toxic if inhaled.
H332	Harmful if inhaled.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.



GOJO® ORIGINAL FORMULA[™] Hand Cleaner

Version 1.1	SDS Number: 400000000198	Revision Date: 02/28/2018	

SECTION 1. IDENTIFICATION

Product name	: GOJO® ORIGINAL FORMULA™ Hand Cleaner	
Manufacturer or supplier's Company name of supplier		
Address	: One GOJO Plaza, Suite 500 Akron, Ohio 44311	
Telephone	: 1 (330) 255-6000	
Emergency telephone number	: CHEMTREC 1-800-424-9300 CHEMTREC +1-703-527-3887: Outside USA & CANADA	

Recommended use of the chemical and restrictions on use

Recommended use	:	Skin-care
Restrictions on use	:	This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage	: Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: H318 Causes serious eye damage.



Version 1.1	SDS Number: 400000000198	Revision Date: 02/28/2018
Precautionary statements	 Prevention: P280 Wear eye protection/ face Response: P305 + P351 + P338 + P310 IF water for several minutes. Rem and easy to do. Continue rinsin CENTER or doctor/ physician. 	IN EYES: Rinse cautiously with ove contact lenses, if present

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (%)
C11-15 Alkane/cycloalkane	64742-47-8	>= 30 - < 50
Mineral Oil (Paraffinum Liquidum)	8042-47-5	>= 10 - < 20
Trideceth-9	24938-91-8	>= 1 - < 5
Propylene Glycol	57-55-6	>= 1 - < 5
Petrolatum	8009-03-8	>= 1 - < 5
Sodium Hydroxymethylglycinate	70161-44-3	>= 0.1 - < 1
Chloroxylenol	88-04-0	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. 	
If inhaled	: If inhaled, remove to fresh air. If symptoms persist, call a physician.	
In case of skin contact	: Wash with water and soap as a precaution. Get medical attention if irritation develops and persists.	
In case of eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Seek medical advice. 	
If swallowed	 If swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention. 	
Most important symptoms and effects, both acute and delayed	: Causes serious eye damage.	
Protection of first-aiders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing	



Version 1.1

SDS Number: 40000000198

Revision Date: 02/28/2018

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2)
Unsuitable extinguishing media	:	None known.
Hazardous combustion products	:	Carbon oxides
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	 Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Material can create slippery conditions.
Environmental precautions	 Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	 Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: For personal protection see section 8.
	Do not swallow.



Version 1.1	SDS Number: 400000000198	Revision Date: 02/28/2018	
	Avoid contact with eyes. Keep container closed when not in use.		
Conditions for safe storage	 Keep in properly labelled container Keep container tightly closed in a place. Store in accordance with the parti 	dry and well-ventilated	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
C11-15 Alkane/cycloalkane	64742-47-8	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA	200 mg/m3 (as total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Mineral Oil (Paraffinum Liquidum)	8042-47-5	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0
Propylene Glycol	57-55-6	TWA	10 mg/m3	US WEEL
Petrolatum	8009-03-8	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0

Components with workplace control parameters

Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally required.
Hand protection Remarks	:	No special protective equipment required.
Eye protection	:	Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	:	No special measures necessary provided product is used correctly.
Protective measures	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to



Version 1.1	SDS Number: 40000000198	Revision Date: 02/28/2018
	the specific work-place. Ensure that eye flushing syster located close to the working pla	
Hygiene measures	: Handle in accordance with goo practice. Avoid contact with eyes.	d industrial hygiene and safety

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	opaque, white, yellow
Odour	:	solvent-like
рН	:	9.0, (20 °C)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	98 °C
Flash point	:	> 100 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	0.883 g/cm3
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Thermal decomposition	:	The substance or mixture is not classified self-reactive.
Viscosity Viscosity, kinematic	:	> 100000 mm2/s (20 °C)



Version 1.1	SDS Number: 400000000198	Revision Date: 02/28/2018
Explosive properties	: Not explosive	
Oxidizing properties	: The substance or mixture is no	ot classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Conditions to avoid	: No data available
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Eye contact Skin contact		
Acute toxicity		
Not classified based on availab	ble information.	
Product:		
Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method	
Components:		
C11-15 Alkane/cycloalkane:		
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg	
Acute inhalation toxicity	 LC50 (Rat): > 5.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on data from similar materials 	
Acute dermal toxicity	: LD50 (Rabbit): > 3,160 mg/kg Assessment: The substance or mixture has no acute dermal toxicity	
Mineral Oil (Paraffinum Liqui Acute oral toxicity	i dum): : LD50 (Rat): > 5,000 mg/kg	
Acute inhalation toxicity	 LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity 	



Version 1.1	SDS Number: 400000000198	Revision Date: 02/28/2018	
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or toxicity	Assessment: The substance or mixture has no acute dermal	
Trideceth-9: Acute oral toxicity	: LD50 (Rat): > 500 - < 2,000 mg	j/kg	
Propylene Glycol: Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg		
Acute inhalation toxicity	: LC50 (Rabbit): > 159 mg/l, > 5 Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or inhalation toxicity		
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or toxicity	mixture has no acute dermal	
Petrolatum: Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline Remarks: Based on data from		
Acute dermal toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline Assessment: The substance or toxicity Remarks: Based on data from 	mixture has no acute dermal	
Sodium Hydroxymethylgly Acute oral toxicity			
	: LD50 (Rat): 1,050 mg/kg		
Chloroxylenol: Acute oral toxicity	: Acute toxicity estimate : 500 m Method: Expert judgement Remarks: Based on harmonise on 1272/2008, Annex VI		
Acute inhalation toxicity	: LC50 (Rat): > 6.29 mg/l Test atmosphere: dust/mist		
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg		

Skin corrosion/irritation

Not classified based on available information.

Components:

C11-15 Alkane/cycloalkane:

Assessment: Repeated exposure may cause skin dryness or cracking.

Mineral Oil (Paraffinum Liquidum):

Species: Rabbit Result: No skin irritation



Version 1.1

SDS Number: 40000000198

Revision Date: 02/28/2018

Trideceth-9:

Species: Rabbit Result: No skin irritation

Propylene Glycol:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Petrolatum:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation Remarks: Based on data from similar materials

Sodium Hydroxymethylglycinate:

Species: Rabbit Result: Skin irritation

Chloroxylenol: Result: Skin irritation Remarks: Based on harmonised classification in EU regulati on 1272/2008, Annex VI

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

C11-15 Alkane/cycloalkane: Species: Rabbit Result: No eye irritation

Mineral Oil (Paraffinum Liquidum):

Species: Rabbit Result: No eye irritation

Trideceth-9:

Species: Rabbit Result: Irreversible effects on the eye

Propylene Glycol:

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405

Petrolatum:

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405 Remarks: Based on data from similar materials

Sodium Hydroxymethylglycinate:

Species: Rabbit Result: Irritation to eyes, reversing within 21 days

Chloroxylenol:



Version 1.1

SDS Number: 40000000198

Revision Date: 02/28/2018

Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Product:

Result: Does not cause skin sensitisation. Remarks: Patch test on human volunteers did not demonstrate sensitisation properties.

Components:

C11-15 Alkane/cycloalkane:

Test Type: Maximisation Test (GPMT) Exposure routes: Skin contact Species: Guinea pig Result: negative Remarks: Based on data from similar materials

Mineral Oil (Paraffinum Liquidum):

Test Type: Buehler Test Exposure routes: Skin contact Species: Guinea pig Result: negative

Propylene Glycol:

Test Type: Maximisation Test (GPMT) Exposure routes: Skin contact Species: Guinea pig Result: negative

Petrolatum:

Test Type: Buehler Test Exposure routes: Skin contact Species: Guinea pig Result: negative Remarks: Based on data from similar materials

Sodium Hydroxymethylglycinate:

Test Type: Maximisation Test (GPMT) Exposure routes: Skin contact Species: Guinea pig Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

Chloroxylenol:

Assessment: Probability or evidence of skin sensitisation in humans Remarks: Based on harmonised classification in EU regulati on 1272/2008, Annex VI

Germ cell mutagenicity

Not classified based on available information.

Components:

C11-15 Alkane/cycloalkane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)



Version 1.1 SDS Number: 40000000198 Revision Date: 02/28/2018 Result: negative Genotoxicity in vivo Test Type: Chromosomal aberration Test species: Rat Application Route: Intraperitoneal injection **Result:** negative Remarks: Based on data from similar materials Mineral Oil (Paraffinum Liquidum): Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test **Result:** negative Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Test species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 **Result:** negative Remarks: Based on data from similar materials **Propylene Glycol:** Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative : Test Type: In vivo micronucleus test Genotoxicity in vivo Test species: Mouse Application Route: Intraperitoneal injection **Result:** negative Petrolatum: Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro **Result:** negative Remarks: Based on data from similar materials : Test Type: Mammalian erythrocyte micronucleus test (in vivo Genotoxicity in vivo cytogenetic assay) Test species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials Sodium Hydroxymethylglycinate: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) **Result:** negative Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with mammali an liver cells in vivo Test species: Rat Result: negative Chloroxylenol: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Carcinogenicity



Version 1.1

SDS Number: 40000000198

Revision Date: 02/28/2018

Not classified based on available information.

Components:

Mineral Oil (Paraffinum Liquidum): Species: Rat Application Route: Ingestion Exposure time: 24 Months Result: negative

Propylene Glycol:

Species: Rat Application Route: Ingestion Exposure time: 2 Years Result: negative

Petrolatum:

Species: Rat Application Route: Ingestion Exposure time: 2 Years Result: negative

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoger by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

C11-15 Alkane/cycloalkane: Effects on fertility	: Test Type: One-generation reproduction toxicity study Species: Rat
	Application Route: Ingestion
	Result: negative
	Remarks: Based on data from similar materials
Effects on foetal	: Test Type: Embryo-foetal development
development	Species: Rat
	Application Route: Ingestion
	Result: negative
Mineral Oil (Paraffinum Liquid	um):
	: Test Type: One-generation reproduction toxicity study

Species: Rat

Result: negative

Application Route: Skin contact



Version 1.1	SDS Number: 400000000198	Revision Date: 02/28/2018
Effects on foetal development	: Test Type: Embryo-foetal develor Species: Rat Application Route: Ingestion Result: negative	opment
Propylene Glycol: Effects on fertility	: Species: Mouse Application Route: Ingestion Result: negative	
Effects on foetal development	: Test Type: Embryo-foetal develor Species: Mouse Application Route: Ingestion Result: negative	opment
Petrolatum: Effects on fertility	: Test Type: Reproduction/Develo t Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from s	
Effects on foetal development	: Test Type: Embryo-foetal develor Species: Rat Application Route: Skin contact Result: negative Remarks: Based on data from s	
Sodium Hydroxymethylglyc	inate:	
Effects on foetal development	: Species: Rat Application Route: Ingestion	

Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

C11-15 Alkane/cycloalkane: Species: Rat NOAEL: > 10.4 mg/l Application Route: inhalation (vapour) Exposure time: 90 d Remarks: Based on data from similar materials

Mineral Oil (Paraffinum Liquidum):

Species: Rat LOAEL: 160 mg/kg Application Route: Ingestion Exposure time: 90 d



Version 1.1

SDS Number: 40000000198

Revision Date: 02/28/2018

Species: Rat LOAEL: >= 1 mg/l Application Route: inhalation (dust/mist/fume) Exposure time: 4 w Method: OECD Test Guideline 412

Propylene Glycol:

Species: Rat NOAEL: 1,700 mg/kg Application Route: Ingestion Exposure time: 2 y

Petrolatum:

Species: Rat NOAEL: 5,000 mg/kg Application Route: Ingestion Exposure time: 2 y

Chloroxylenol:

Species: Rabbit LOAEL: 180 mg/kg Application Route: Skin contact Exposure time: 90 d

Aspiration toxicity

Not classified based on available information.

Components:

C11-15 Alkane/cycloalkane:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Mineral Oil (Paraffinum Liquidum):

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

~

<u>Components:</u>	
C11-15 Alkane/cycloalkane:	
Toxicity to fish	 LL50 (Danio rerio (zebra fish)): > 250 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	 EL50 (Acartia tonsa): > 3,193 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction
Toxicity to algae	 EL50 (Skeletonema costatum (marine diatom)): > 3,200 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction



sion 1.1	SDS Number: 40000000198 Revision Date: 02/28/20
	NOELR (Skeletonema costatum (marine diatom)): 993 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	 NOELR (Ceriodaphnia Dubia (water flea)): > 70 mg/l Exposure time: 8 d Test substance: Water Accommodated Fraction
Toxicity to bacteria	: EC50: > 100 mg/l Exposure time: 3 h
Mineral Oil (Paraffinum Liqui Toxicity to fish	 dum): LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	 NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 1,000 mg/l Exposure time: 21 d
Trideceth-9: Toxicity to fish	: LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50: > 1 - 10 mg/l Exposure time: 48 h
Toxicity to algae	: EC50: > 1 - 10 mg/l Exposure time: 72 h
Propylene Glycol: Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Ceriodaphnia Dubia (water flea)): 18,340 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Skeletonema costatum (marine diatom)): 19,000 mg/ Exposure time: 48 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: Chronic Toxicity Value: 2,500 mg/l Exposure time: 30 d



sion 1.1	SDS Number: 40000000198 Revision Date: 02/28/20
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Ceriodaphnia Dubia (water flea)): 29,000 mg/l Exposure time: 7 d
Toxicity to bacteria	: NOEC (Pseudomonas putida): > 20,000 mg/l Exposure time: 18 h
Petrolatum: Toxicity to fish	 LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Toxicity to algae	 NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	 NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Sodium Hydroxymethylglyci Toxicity to fish	nate: : LC50: > 10 - 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia pulex (Water flea)): > 10 - 100 mg/l Exposure time: 48 h
Toxicity to algae	 ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 10 - 100 mg/l Exposure time: 72 h
Toxicity to bacteria	: EC50: > 100 mg/l Exposure time: 120 h
Chloroxylenol: Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.76 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 7.7 mg/l Exposure time: 48 h
M-Factor (Acute aquatic toxicity)	: 1



sion 1.1	SDS Number: 40000000198 Revision Date: 02/28/20
Persistence and degradabilit	ty
Components: C11-15 Alkane/cycloalkane: Biodegradability	: Result: Readily biodegradable. Biodegradation: 82 % Exposure time: 24 d Method: OECD Test Guideline 301F
Mineral Oil (Paraffinum Liqui Biodegradability	idum): : Result: Not readily biodegradable. Biodegradation: 31 % Exposure time: 28 d
Trideceth-9: Biodegradability	: Result: Readily biodegradable. Biodegradation: > 60 % Exposure time: 28 d
Propylene Glycol: Biodegradability	: Result: Readily biodegradable. Biodegradation: 98.3 % Exposure time: 28 d Method: OECD Test Guideline 301F
Petrolatum: Biodegradability	 Result: Not readily biodegradable. Biodegradation: 31 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Based on data from similar materials
Sodium Hydroxymethylglyci Biodegradability	inate: : Result: Readily biodegradable.
Bioaccumulative potential	
Components: Propylene Glycol: Partition coefficient: n- octanol/water	: log Pow: -1.07
Sodium Hydroxymethylglyci Partition coefficient: n- octanol/water	i nate: : log Pow: < 3
Chloroxylenol: Partition coefficient: n- octanol/water	: log Pow: 3.27
Mobility in soil No data available	
Other adverse effects	



Version 1.1	SDS Number: 40000000198	Revision Date: 02/28/2018
Product:		
Regulation	40 CFR Protection of Environment Stratospheric Ozone - CAA Sectio	
Remarks	This product neither contains, nor Class I or Class II ODS as defined Section 602 (40 CFR 82, Subpt. A	by the U.S. Clean Air Act

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues	: Dispose of in accordance with local regulations.
Contaminated packaging	: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR Not regulated as a dangerous good IMDG-Code Not regulated as a dangerous good

National Regulations

49 CFR Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium Hydroxide	1310-73-2	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	: Acute Health Hazard
SARA 302	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



Version 1.1	SDS Number: 40000000198	Revision Date: 02/28/2018	
SARA 313	known CAS numbers that exce	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
Clean Air Act	contain any hazardous air pollutants (HAP)	as defined by the U.S. Clean	

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Propylene Glycol 57-55-6 1.7691 % This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

	C11-15 Alkane/cycloalkane Mineral Oil (Paraffinum Liquidum) Petrolatum Sodium Hydroxymethylglycinate	64742-47-8 8042-47-5 8009-03-8 70161-44-3	30 - 50 % 10 - 20 % 1 - 5 % 0.1 - 1 %
Pennsylvania F	Right To Know		
	C11-15 Alkane/cycloalkane	64742-47-8	30 - 50 %
	Water (Aqua)	7732-18-5	30 - 50 %
	Mineral Oil (Paraffinum Liquidum)	8042-47-5	10 - 20 %
	Oleic Acid	112-80-1	5 - 10 %
	Trideceth-9	24938-91-8	1 - 5 %
	Propylene Glycol	57-55-6	1 - 5 %
	Petrolatum	8009-03-8	1 - 5 %
	Sodium Hydroxide	1310-73-2	0.1 - 1 %
	Sodium Hydroxymethylglycinate	70161-44-3	0.1 - 1 %
New Jersey Rig	ght To Know		
	C11-15 Alkane/cycloalkane	64742-47-8	30 - 50 %
	Water (Aqua)	7732-18-5	30 - 50 %
	Mineral Oil (Paraffinum Liquidum)	8042-47-5	10 - 20 %
	Oleic Acid	112-80-1	5 - 10 %
	Trideceth-9	24938-91-8	1 - 5 %
	Propylene Glycol	57-55-6	1 - 5 %
	Sodium Hydroxymethylglycinate	70161-44-3	0.1 - 1 %

California Prop 65This product does not contain any chemicals known to State
of California to cause cancer, birth defects, or any other
reproductive harm.

The components of this product are reported in the following inventories:TSCA: On TSCA Inventory



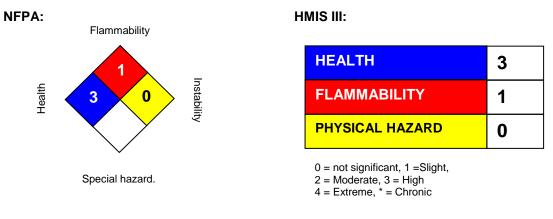
Version 1.1	SDS Number: 40000000198	Revision Date: 02/28/2018
AICS	: On the inventory, or in compliance	with the inventory
DSL	: On the inventory, or in compliance	with the inventory
ENCS	: On the inventory, or in compliance	with the inventory
ISHL	: On the inventory, or in compliance	with the inventory
KECI	: On the inventory, or in compliance	with the inventory
PICCS	: On the inventory, or in compliance	with the inventory
IECSC	: On the inventory, or in compliance	with the inventory
NZIoC	: On the inventory, or in compliance	with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information



Revision Date : 02/28/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



SAFETY DATA SHEET

Issue Date No data available

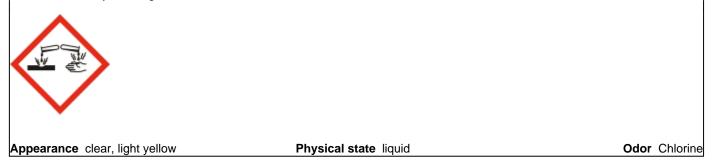
Revision Date 26-Mar-2015

Version 1

1. IDENTIFICATION

	I. IDENTIFICATION	
Product identifier Product Name	Pure Bright Germicidal Ultra Bleach 1 GAL	
<u>Other means of identification</u> Product UPC Product Code Synonyms	59647-21014 11008635041, 11008635042, 11008638431 None	
<u>Recommended use of the chemica</u> Recommended Use Uses advised against	<u>Il and restrictions on use</u> Disinfectant. Cleaning agent. Chlorine-based blead No information available	ching agents.
Details of the supplier of the safety Manufacturer Address KIK International LLC 33 Macintosh Blvd. Concord, Ontario Canada L4K 4L5 1-800-479-6603	<u>/ data sheet</u>	
Emergency telephone number Emergency Telephone	Poison Control Center (Medical) : (866) 366-5048 Chemtel (Transportation) 1-888-255-3924	
	2. HAZARDS IDENTIFICATION	
Classification OSHA Regulatory Status		
This chemical is considered hazardou	us by the 2012 OSHA Hazard Communication Standa	ard (29 CFR 1910.1200)
Skin corrosion/irritation		Category 2
Serious eye damage/eye irritation		Category 1
Label elements		
L	Emergency Overview	
Danger		

Hazard statements Causes skin irritation Causes serious eye damage



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention

Precautionary Statements - Storage

Keep out of reach of children. Store in a dry place. Store in a closed container. Protect from sunlight. Store in a well-ventilated place

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

0% of the mixture consists of ingredient(s) of unknown toxicity Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Sodium hypochlorite	7681-52-9	5-7	*
*The exact percentage (concentration) of composition has been withheld as a trade secret.			

4. FIRST AID MEASURES

Description of first aid measures

Description of mist and measures		
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.	
Skin contact	Wash skin with soap and water.	
Inhalation	Remove to fresh air.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

<u>Protective equipment and precautions for firefighters</u> As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective e	quipment and emergency procedures_	
Personal precautions	Ensure adequate ventilation, especially in confined areas.	
Environmental precautions		
Environmental precautions	See Section 12 for additional ecological information.	
Methods and material for containm	ent and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	
	7. HANDLING AND STORAGE	
Precautions for safe handling		
Advice on safe handling	Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.	
Incompatible materials	Acids, Ammonia.	
8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Control parameters		
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational	
Appropriate engineering controls	exposure limits established by the region specific regulatory bodies.	
Engineering Controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, su	ch as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin and body protection	Wear protective gloves and protective clothing.	
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be	

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance	liquid clear, light yellow	Odor	Chlorine
Color	light yellow	Odor threshold	No information available
_			
Property	<u>Values</u> ~12.5	Remarks • Method	
pH Molting point/freezing point	No information available		
Melting point/freezing point	No information available		
Boiling point / boiling range	No information available		
Flash point			
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Specific Gravity	1.07 - 1.09		
Water solubility	Soluble in water		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
Other Information			
Softening point	No information available		
Molecular weight	No information available		
VOC Content (%)	None		
Density	No information available		
Bulk density	No information available		
10. STABILITY AND REACTIVITY			

Reactivity No data available

Chemical stability Stable under recommended storage conditions. Possibility of Hazardous Reactions None under normal processing. Conditions to avoid Incompatible materials. Extremes of temperature and direct sunlight. Incompatible materials Acids, Ammonia. Hazardous Decomposition Products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Eye contact	Avoid contact with eyes. May cause burns.
Skin contact	Avoid contact with skin. May cause irritation.
Ingestion	May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hypochlorite	= 8200 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-
7681-52-9			

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity Carcinogenicity	No information available. No information available. The table below indicates whether each agency has listed any ingredient as a carcinogen.			
Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-
IARC (International Agency for Research on Cancer) Not classifiable as a human carcinogen				
Reproductive toxicity No information				
STOT - single exposure STOT - repeated exposu Aspiration hazard	T - repeated exposure No information available.			

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium hypochlorite	0.095: 24 h Skeletonema costatum	0.06 - 0.11: 96 h Pimephales	2.1: 96 h Daphnia magna mg/L
7681-52-9	mg/L EC50	promelas mg/L LC50 flow-through	EC50 0.033 - 0.044: 48 h Daphnia
	-	4.5 - 7.6: 96 h Pimephales promelas	magna mg/L EC50 Static
		mg/L LC50 static 0.4 - 0.8: 96 h	
		Lepomis macrochirus mg/L LC50	
		static 0.28 - 1: 96 h Lepomis	
		macrochirus mg/L LC50	
		flow-through 0.05 - 0.771: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		flow-through 0.03 - 0.19: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		semi-static 0.18 - 0.22: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		static	
Sodium hydroxide	-	45.4: 96 h Oncorhynchus mykiss	-
1310-73-2		mg/L LC50 static	

Persistence and degradability No information available.	
Bioaccumulation No information available.	
Other adverse effects	No information available
	13. DISPOSAL CONSIDERATIONS
Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT

Not regulated

IATA	3082
UN/ID no.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper shipping name	9
Hazard Class	III
Packing Group	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM
Description	HYPOCHLORITE), 9, III
IMDG	3082
UN/ID no.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper shipping name	9
Hazard Class	III
Packing Group	This material meets the definition of a marine pollutant
Marine pollutant	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM
Description	HYPOCHLORITE), 9, III

15. REGULATORY INFORMATION

International Inventories		
TSCA	Complies	
DSL/NDSL	Complies	

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

				Substances
Sodium hypochlorite 7681-52-9	100 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

	Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Г	Sodium hypochlorite	100 lb	-	RQ 100 lb final RQ
	7681-52-9			RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hypochlorite 7681-52-9	Х	X	Х
Sodium hydroxide 1310-73-2	X	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number 70271-13

Difference between SDS and EPA Pesticide label

DANGER: Corrosive. May cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses and rubber gloves when handling this product. Wash after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Flammability 0

Health hazards 2 Health hazards 2

ards 2 Flammability 0

Physical hazards 1

Instability 1

Physical and Chemical Properties -Personal protection B

HMIS

26-Mar-2015

Revision Note

No information available

<u>Disclaimer</u>

Revision Date

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET



Green Earth Glass Cleaner

Section 1. Identif	ication
GHS product identifier	: Green Earth Glass Cleaner
Product code	: 535
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Not applicable.	
Supplier's details	: Betco Corporation 400 Van Camp Road Bowling Green, Ohio 43402 www.betco.com 888-462-3826
Emergency telephone number (with hours of operation)	: Chemtrec (800) 424-9300 24 hour
Section 2. Hazard	Is identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: EYE IRRITATION - Category 2A
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Causes serious eye irritation.
Precautionary statements	
Prevention	: Wear eye or face protection. Wash hands thoroughly after handling.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	%	CAS number
D-Glucopyranose, oligomers, decyl octyl glycosides	≥5 - <10	68515-73-1

Date of issue/Date of revision

1/10

Section 3. Composition/information on ingredients

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary fir	st aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/symp</u>	<u>itoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Date of issue/Date of revision	: 10/11/2018	Date of previous issue	: No previous validation	Version :1	2/10

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: No specific data.
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits	
D-Glucopyranose, oligomers, decyl octyl glycosides		None.	
Appropriate engineering controls	: Good general ventilation should be contaminants.	e sufficient to control worker exposure to airborne	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Individual protection measured	<u>ires</u>		
Hygiene measures	eating, smoking and using the lava Appropriate techniques should be	noroughly after handling chemical products, before atory and at the end of the working period. used to remove potentially contaminated clothing. e reusing. Ensure that eyewash stations and safety on location.	
Eye/face protection	assessment indicates this is neces gases or dusts. If contact is possi	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles recommended.	
Skin protection			
Hand protection	worn at all times when handling ch necessary. Considering the paran during use that the gloves are still noted that the time to breakthroug	oves complying with an approved standard should be emical products if a risk assessment indicates this is neters specified by the glove manufacturer, check retaining their protective properties. It should be h for any glove material may be different for different of mixtures, consisting of several substances, the bt be accurately estimated.	
Body protection		the body should be selected based on the task being and should be approved by a specialist before	
Other skin protection		tional skin protection measures should be selected d and the risks involved and should be approved by a fuct.	
Respiratory protection	appropriate standard or certification	for exposure, select a respirator that meets the n. Respirators must be used according to a ensure proper fitting, training, and other important	

Section 8. Exposure controls/personal protection

Personal protective equipment (Pictograms)



Section 9. Physica	al and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Color	: Clear. Blue. [Dark]
Odor	: Lemon-like. Fragrance Added.
Odor threshold	: Not available.
рН	6.5 to 7 Concentrate6.5 to 8.5 Dilution 1:64
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: Not applicable. [Product does not sustain combustion.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	Not available.
Relative density	: 1.0124
Solubility	: Easily soluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

5/10

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	1	Routes of entry anticipated: Oral. Routes of entry not anticipated: Dermal, Inhalation.
Potential acute health effects		
Eye contact	1	Causes serious eye irritation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	;	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effect	cts and also cl	nronic effects from short	and long term exposu	<u>re</u>
Potential immediate effects	: Not availat	ble.		
Potential delayed effects Long term exposure	: Not availat	ble.		
Potential immediate effects	: Not availat	ble.		
Date of issue/Date of revision	: 10/11/2018	Date of previous issue	: No previous validation	Versio

Section 11. Toxicological information

Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

: Not available.

Section 13. Disposal considerations

	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
--	--

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

J.S. Federal regulations		()	2-methylundecanal Exempt/Partial exemption: Not determined
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: N	ot listed	
Clean Air Act Section 602 Class I Substances	: N	ot listed	
Clean Air Act Section 602 Class II Substances	: N	ot listed	
DEA List I Chemicals (Precursor Chemicals)	: N	ot listed	
DEA List II Chemicals (Essential Chemicals)	: N	ot listed	
SARA 302/304			
Composition/information c	<u>n inc</u>	redients	
No products were found.			
SARA 304 RQ	: N	ot applicable.	
SARA 311/312			
Classification	EY:	E IRRITATION -	- Category 2A
Composition/information c	<u>n inc</u>	redients	
Name		%	Classification
D-Glucopyranose, oligomers decyl octyl glycosides	З,	≤10	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
State regulations			
Massachusetts	• NI	and of the ocma	onents are listed.

Section 15. Regulatory information

New	York
	IUIN

- : None of the components are listed.
- New Jersey
- : None of the components are listed.
- Pennsylvania
- : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Section 16. Other information



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

	Classification	Justification	
EYE IRRITATION - Category 2A		Expert judgment	
<u>History</u>			
Date of printing	: 10/11/2018		
Date of issue/Date of revision	: 10/11/2018		
Date of previous issue	: No previous validation		
Version	: 1		
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition of MARPOL = International Convention for the Prever as modified by the Protocol of 1978. ("Marpol" = ma UN = United Nations	oefficient tion of Pollution From Ships, 1973	
References	: Not available.		

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

There was a PDF conversion failure for -

Product Name: Green Earth Peroxide Cleaner CAS Number: Manufacturer: BETCO CORPORATION SDS Date: 1/30/2017

To complete your binder, try printing the SDS manually from

https://jjkeller.quickbase.com/up/bpqzfauue/a/r200210/e27

and add to your binder. We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. In order to correct it, download the file using the link. Delete the existing file in your chemical record. Unsecure the document and add to your chemical manually

Product Name: Guard Top Crack Filler **CAS Number: Manufacturer:** Guardtop L.L.C **SDS Date:** 12/24/2014

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: Hi-Solids Polyurethane 250 (Part S) Extra White **CAS Number: Manufacturer:** THE SHERWIN-WILLIAMS COMPANY **SDS Date:** 11/28/2019

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

SAFETY DATA SHEET

B60V30

Section 1. Identification

Product name	: Hi-Solids Polyurethane Activator (Part T)
Product code	: B60V30
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of th	e substance or mixture and uses advised against
Paint or paint related material.	
Manufacturer	: THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year
Product Information Telephone Number	: US / Canada: (800) 524-5979 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Danger

Date of issue/Date	of revision	: 11/30/2019	Date of previous issue	: 10/3/2019	Version	:9	1/15
B60V30	Hi-Solids Polyurethane	Activator (Part	T)		SHW-85-	NA-GHS-US	

Section 2. Hazards identification

Hazard statements	: Flammable liquid and vapor.
	Harmful if inhaled.
	Causes serious eye irritation. Causes skin irritation.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	May cause an allergic skin reaction.
	May cause respiratory irritation.
	May cause drowsiness or dizziness.
	May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: Get medical attention if you feel unwell. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by
	 deliberately concentrating and inhaling the contents can be harmful or fatal. FOR INDUSTRIAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, LEAVE THE AREA and get fresh air. If problems remain or happen later, IMMEDIATELY call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise	: None known.

classified

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
	≥50 - ≤75 ≥25 - <32 ≤0.3	28182-81-2 110-43-0 822-06-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures					
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.				
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.				
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.				
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.				

Most important symptoms/effects, acute and delayed

Potential acute health	<u>i effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Date of issue/Date	of revision	: 11/30/2019	Date of previous issue	: 10/3/2019	Version : 9	3/15
B60V30 Hi-Solids Polyurethane		Activator (Part	Τ)		SHW-85-NA-GHS-US	

Section 4. First ai	id measures
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

Date of issue/Date	e of revision	: 11/30/2019	Date of previous issue	: 10/3/2019	Version	:9	4/15	
B60V30	Hi-Solids Polyurethane	e Activator (Part	T)		SHW-85	NA-GHS-US		

Section 5. Fire-fighting measures

Special protective actions	: Promptly isolate the scene by removing all persons from the vicinity of the incident if
for fire-fighters	there is a fire. No action shall be taken involving any personal risk or without suitable
	training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain
	product residue and can be hazardous. Do not reuse container.

Date of issue/Date	of revision	: 11/30/2019	Date of previous issue	: 10/3/2019	Version	:9
B60V30	Hi-Solids Polyurethane	Activator (Part	T)		SHW-85-	NA-GHS-US

5/15

Section 7. Handling and storage

Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Hexamethylene Diisocyanate Polymer Methyl n-Amyl Ketone	28182-81-2 110-43-0	None. ACGIH TLV (United States, 3/2019). TWA: 50 ppm 8 hours. TWA: 233 mg/m ³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 465 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 465 mg/m ³ 8 hours.
Hexamethylene Diisocyanate (max.)	822-06-0	ACGIH TLV (United States, 3/2019). TWA: 0.005 ppm 8 hours. TWA: 0.03 mg/m ³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 0.005 ppm 10 hours. TWA: 0.035 mg/m ³ 10 hours. CEIL: 0.02 ppm 10 minutes. CEIL: 0.14 mg/m ³ 10 minutes. OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 5 mg/m ³ , (as CN) 8 hours.

Occupational exposure limits (Canada)

Ingredient name	Exposure limits			
Methyl n-amyl ketone	110-43-0	8 hrs OEL: 23 8 hrs OEL: 50 CA British Coll 5/2019). TWA: 50 ppm CA Ontario Pro TWA: 25 ppm TWA: 115 mg. CA Quebec Pro TWAEV: 50 pp	8 hours. 5 hours. 5 hours. 8 hours. 7 hours. 7 hours. 7 hours. 8 hours. 6 hours. 7 hours. 7 hours. 7 hours. 1 hou	da, 8).
Date of issue/Date of revision : 11/30/20	19 Date of previous issue	: 10/3/2019	Version : 9	6/15
Hi-Solids Polyurethane Activator (Part T)			SHW-85-NA-GHS-US	6

Section 8. Exposure controls/personal protection

	•	
		CA Saskatchewan Provincial (Canada, 7/2013). STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Hexamethylene diisocyanate	822-06-0	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.005 ppm 8 hours. 8 hrs OEL: 0.03 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 5/2019). Inhalation sensitizer. TWA: 0.005 ppm 8 hours. C: 0.01 ppm CA Quebec Provincial (Canada, 1/2014). Skin sensitizer. TWAEV: 0.005 ppm 8 hours. TWAEV: 0.034 mg/m³ 8 hours. TWAEV: 0.034 mg/m³ 8 hours. TWA: 0.03 mg/m³ 8 hours. TWA: 0.01 ppm 8 hours. TWA: 0.01 ppm 8 hours. TWA: 0.01 ppm 8 hours. TWA: 0.01 ppm 15 minutes. TWA: 0.005 ppm 8 hours.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits	
Methyl n-Amyl Ketone	110-43-0	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.	

Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	res	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		

7/15

Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Boiling point/boiling range	: 147°C (296.6°F)
Flash point	: Closed cup: 39°C (102.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 0.33 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 1.1% Upper: 7.9%
Vapor pressure	: 0.51 kPa (3.855 mm Hg) [at 20°C]
Vapor density	: 3.94 [Air = 1]
Relative density	: 1.01
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.205 cm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 10.421 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute	toxi	citv
		_

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene Diisocyanate Polymer	LC50 Inhalation Vapor	Rat	18500 mg/m³	1 hours
Methyl n-Amyl Ketone Hexamethylene Diisocyanate (max.)	LD50 Oral LC50 Inhalation Dusts and mists		1600 mg/kg 124 mg/m³	- 4 hours

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene Diisocyanate Polymer	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
-	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
Methyl n-Amyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Date of issue/Dat	e of revision
B60V30	Hi-Solids Po

:10/3/2019

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Hexamethylene Diisocyanate Polymer	Category 3	Not applicable.	Respiratory tract irritation
Methyl n-Amyl Ketone	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Hexamethylene Diisocyanate (max.)	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Methyl n-Amyl Ketone	Category 2	Not determined	Not determined

Aspiration hazard

Not available.

-

Information on the likely routes of exposure	: Not available.
Potential acute health effe	icts
Eye contact	: Causes serious eye irritation.
Inhalation	 Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Symptoms related to the p	physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Delayed and immediate ef	fects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Date of issue/Date of revision	: 11/30/2019 Date of previous issue : 10/3/2019 Version : 9 10/15

Date of issue/Date	of revision	: 11/30/2019	Date of previous issue	: 10/3/2019	Version :9	10/15
B60V30	Hi-Solids Polyurethane	Activator (Part	T)		SHW-85-NA-GHS-US	

Section 11. Toxicological information

Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Potential chronic health e	ifects
Not available.	
General	 May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	5438.33 mg/kg
Inhalation (vapors)	11.03 mg/l

Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
Methyl n-Amyl Ketone	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours 🥄

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl n-Amyl Ketone	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene Diisocyanate (max.)	-	57.63	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Date of issue/Dat	te of revision	: 11/30/2019	Date of previous issue	: 10/3/2019	Version	:9	11/15
B60V30	Hi-Solids Polyurethan	e Activator (Part	T)		SHW-85-	NA-GHS-US	;

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

			-		
	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
Transport hazard class(es)	3	3	3	3	3
Packing group	III	ш	111	Ш	ш
Environmental hazards	No.	No.	No.	No.	No.
Additional information	This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).			Emergency schedules F-E, S E
	<u>ERG No.</u>	ERG No.	ERG No.		
	128	128	128		

Section 14. Transport information

Special precautions for user	consider container sizes. mode of transport (sea, ai suitably for that mode of tr to shipment, and compliar of the person offering the	riptions are provided for informational purposes and do not The presence of a shipping description for a particular r, etc.), does not indicate that the product is packaged ransport. All packaging must be reviewed for suitability prior nee with the applicable regulations is the sole responsibility product for transport. People loading and unloading trained on all of the risks deriving from the substances of emergency situations.
Transport in bulk according to Annex II of MARPOL and the IBC Code	: Not available.	
	Proper shipping name	: Not available.
	Ship type	: Not available.
	Pollution category	: Not available.

Section 15. Regulatory information

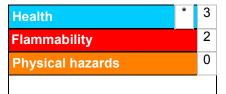
SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65 Not applicable.		
International regulations		
International lists	:	Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan Chemical Substances Inventory (TCSI): Not determined. Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Date of issue/Date	e of revision	: 11/30/2019	Date of previous issue
B60V30	Hi-Solids Polyurethane	Activator (Part	T)

: 10/3/2019

Version : 9 13/15 SHW-85-NA-GHS-US

Section 16. Other information

	Classification Justification				
FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2On basis of test d Calculation method Calculation method					
History					
Date of printing	: 11/30/2019				
Date of issue/Date of revision					
Date of previous issue	: 10/3/2019				
Version	: 9				
Key to abbreviations : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations					

✓ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

: 10/3/2019

: 10/3/2019

Product Name: Chevron Hydraulic Oil AW ISO 32 **CAS Number: Manufacturer:** Steris Corporation **SDS Date:** 12/7/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Material Safety Da	ata Sheet
--------------------	-----------

QU POND.

DuPont[™] Karmex[®] DF Herbicide

Version 2.2

Revision Date 02/14/2011

Ref. 130000028870

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Tradename/Synonym	:	DuPont [™] Karmex [®] DF Herbicide DPX-14740 Karmex 80 DF / WG Direx 80DF Karmex XP Karmex IWC Nautilus B10237358 DIURON: 3-[3,4-Dichlorophenyl]-1,1-dimethylurea
MSDS Number	:	13000028870
Product Use	:	Herbicide
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
Product Information Medical Emergency Transport Emergency	:	1-800-441-7515 (outside the U.S. 1-302-774-1000) 1-800-441-3637 (outside the U.S. 1-302-774-1139) CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin . Avoid contact with skin, eyes and clothing.

Potential Health Effects

This section includes potential acute adverse effects which could occur if this material is not used according to the label.

Skin

1 / 10

Material Safety Data Sheet



ion 2.2			
sion Date 02/14/2011	Ref. 13000	0028870	
Diuron	: May cause skin irrita	tion. Discomfort, Rash.	
Eyes Diuron	: May cause eye irritat	ion. Discomfort, tearing, Blu	urred vision.
Ingestion Diuron		al decrease in number of rea tiredness, rapid heartbeat, breath	
Repeated exposure Diuron	: Adverse effects from altered blood chemis	repeated exposure may inc try	clude: Bladder damage
Target Organs			
Diuron Carcinogenicity	: Blood Urinary system onts present in this material at c , as a carcinogen.		reater than 0.1% are listed by
Diuron Carcinogenicity None of the compone IARC, NTP, or OSHA	nts present in this material at c	oncentrations equal to or g	reater than 0.1% are listed by
Diuron Carcinogenicity None of the compone IARC, NTP, or OSHA	nts present in this material at c , as a carcinogen.	oncentrations equal to or g	reater than 0.1% are listed by
Diuron Carcinogenicity None of the compone IARC, NTP, or OSHA TION 3. COMPOSITION/IN	nts present in this material at c , as a carcinogen.	oncentrations equal to or g	
Diuron Carcinogenicity None of the compone IARC, NTP, or OSHA TION 3. COMPOSITION/IN Component	nts present in this material at c , as a carcinogen.	oncentrations equal to or gr	Concentration
Diuron Carcinogenicity None of the compone IARC, NTP, or OSHA TION 3. COMPOSITION/IN Component Diuron	nts present in this material at c , as a carcinogen.	oncentrations equal to or gr	Concentration 80 %
Diuron Carcinogenicity None of the compone IARC, NTP, or OSHA TION 3. COMPOSITION/IN Component Diuron	IFORMATION ON INGREDIEN	oncentrations equal to or gr	Concentration 80 % 20 %
Diuron Carcinogenicity None of the compone IARC, NTP, or OSHA TION 3. COMPOSITION/IN Component Diuron Other Ingredients TION 4. FIRST AID MEAS	IFORMATION ON INGREDIEN	ed clothing immediately. Rir 0 minutes. Call a poison co	Concentration 80 % 20 %

Material Safety Data Sheet



DuPont[™] Karmex[®] DF Herbicide

Version 2.2

Revision Date 02/14/2011	Ref. 13000028870
Eye contact	: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Inhalation	: Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
Ingestion	: Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.
General advice	: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call toll free 1-800-441-3637. See Label for Additional Precautions and Directions for Use.
SECTION 5. FIRE-FIGHTING MEA	ASURES
Flammable Properties Autoignition temperature	: 455 °C (851 °F)
Lower explosion limit	: 0.070 g/l
Fire and Explosion Hazard	: Under severe dusting conditions, this material may form explosive mixtures in air.
Suitable extinguishing media	: Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media	: High volume water jet, (contamination risk)
Firefighting Instructions	 In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.
	3 / 10

Material Safety Data Sheet DuPont[™] Karmex[®] DF Herbicide Version 2.2 Revision Date 02/14/2011 Ref. 13000028870 SECTION 6. ACCIDENTAL RELEASE MEASURES NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with cleanup. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up. Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Spill Cleanup : Sweep up and shovel into suitable containers for disposal. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations. SECTION 7. HANDLING AND STORAGE Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Storage : Store in original container. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Engineering controls : Ensure adequate ventilation. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. Refer to the product label for additional Engineering Controls. 4/10

Material Safety Data Sheet	QU POND.
DuPont [™] Karmex [®] DF H	lerbicide
Version 2.2	
Revision Date 02/14/2011	Ref. 13000028870
Personal protective equipment Skin and body protection	 Pilots, flaggers and groundboom applicators must wear: Long sleeved shirt and long pants Shoes plus socks Mixers, loaders, applicators and other handlers must wear: Long sleeved shirt and long pants Shoes plus socks Chemical resistant gloves made of any waterproof material A NIOSH approved dust/mist filtering respirator with any N, R, P, or HE filter or with approval number prefix TC-21C. Chemical resistant apron when mixing, loading, or cleaning equipment or spills. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls Chemical resistant gloves made of any waterproof material Shoes plus socks
Protective measures	 Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
	(ACGIH) 10 mg/m3 TWA (DUPONT) 1 mg/m3 8 & 12 hr. TWA Total dust.
	e Exposure Limit. Where governmentally imposed occupational exposure limits which effect, such limits shall take precedence.
SECTION 9. PHYSICAL AND CHE	MICAL PROPERTIES
Form Color Density Water solubility	 solid, granules brown 40 lb/ft³ dispersible
	5 / 10

Material Safety Data Sheet

QU POND.

DuPont[™] Karmex[®] DF Herbicide

Version 2.2

Revision Date 02/14/2011

Ref. 130000028870

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Incompatibility	: No materials to be especially mentioned.
Hazardous reactions	: Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPor	nt [™] Karmex [®] DF Herbicide Inhalation 4 h_LC50		> 2.02 mg/l , rat
	Dermal LD50 Dermal	:	> 5,000 mg/kg , rabbit
	Oral LD50 Oral	:	> 5,000 mg/kg , rat
	Skin irritation	:	slight irritation, rabbit
	Eye irritation	:	Moderate eye irritation, rabbit
	Sensitisation	:	Animal test did not cause sensitization by skin contact., guinea pig
Diuron	Repeated dose toxicity	:	The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
			Oral rat Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia), Spleen effects, bone marrow changes, Kidney effects, Bladder effects, Reduced body weight gain
			Oral dog Red blood cell destruction causing abnormal decrease in number of
			6 / 10

Material Safety Data Sheet



DuPont [™] Karmex [®] DF Herl /ersion 2.2	bicia	le
Version 2.2		
Revision Date 02/14/2011		Ref. 13000028870
		red blood cells (anaemia), Spleen effects, bone marrow changes, Reduced body weight gain
		Inhalation rat Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia), Spleen effects
Carcinogenicity	:	The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
		An increased incidence of tumours was observed in laboratory animals.
Mutagenicity	:	Overall weight of evidence indicates that the substance is not mutagenic.
Reproductive toxicity	:	Animal testing did not show any effects on fertility.
Teratogenicity	:	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
ECTION 12. ECOLOGICAL INFORM	ATION	4
Aquatic Toxicity DuPont [™] Karmex [®] DF Herbicid 96 h LC50	e :	Oncorhynchus mykiss (rainbow trout) 190 mg/l
96 h LC50	:	Lepomis macrochirus (Bluegill sunfish) 300 mg/l
iuron 72 h EC50	:	Algae 0.018 mg/l
48 h EC50	:	Daphnia magna (Water flea) 1.4 mg/l
Toxicity to other organisms		
iuron LD50	:	Colinus virginianus (Bobwhite quail) 1,104 mg/kg
Additional ecological information	:	Environmental Hazards: For Terrestrial Uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas
		7 / 10

Material Safety Data Sheet DuPont[™] Karmex[®] DF Herbicide Version 2.2 Revision Date 02/14/2011 Ref. 130000028870 below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. SECTION 13. DISPOSAL CONSIDERATIONS Waste Disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. **Container Disposal** : Refer to the product label for instructions. Container Refilling and Disposal: Do not transport if this container is damaged or leaking. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night. **SECTION 14. TRANSPORT INFORMATION** IATA_C UN number : 3077 Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (Diuron) : 9 Class Packing group : 111 Labelling No. : 9MI IMDG UN number : 3077 Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (Diuron) Class : 9 Packing group : 111 Labelling No. : 9 Marine pollutant : yes (Diuron) Not regulated by DOT in single packages containing less than 100 pounds. 8/10

IPont [™] Karmex [®] DF		
SI011 2.2		
vision Date 02/14/2011	Ref. 130000028870	
CTION 15. REGULATORY IN	FORMATION	
SARA 313 Regulated Chemical(s)	: Diuron	
Title III hazard classification	: Acute Health Hazard: Yes Chronic Health Hazard: Yes Fire: No Reactivity/Physical hazard: No Pressure: No	
CERCLA Reportable Quantity	: 125 lbs Based on the percentage composition o Diuron	f this chemical in the product.:
EPA Reg. No.	: 352-692 In the United States this product is regul Protection Agency (EPA) under the Fede Rodenticide Act (FIFRA). It is a violation a manner inconsistent with its labeling. This product is excluded from listing req	eral Insecticide, Fungicide and n of Federal law to use this product in Read and follow all label directions.
California Prop. 65	: WARNING! This product contains a che to cause cancer.Diuron	mical known to the State of California
PA Right to Know Regulated Chemical(s)	: Substances on the Pennsylvania Hazard a concentration of 1% or more (0.01% for Substances): Kaolin , Diuron	
NJ Right to Know Regulated Chemical(s)	: Substances on the New Jersey Workpla present at a concentration of 1% or more identified as carcinogens, mutagens or t	e (0.1% for substances
CTION 16. OTHER INFORMA	TION	
	NFPA	HMIS
Health	: 1	2
	9 / 10	

Material Safety	Data	Sheet
-----------------	------	-------



DuPont[™] Karmex[®] DF Herbicide

Version 2.2

Revision Date 02/14/2011		Ref. 130000028870	
Flammability	:	1	1
Reactivity/Physical hazard	:	0	0
[™] Trademark of E.I. du Pont [®] DuPont's registered trader Contact person	mark		DE, 19898, Phone: 1-888-638-7668
Contact person	: DUPC	ont Grop Protection, withington,	DE, 19898, Phone: 1-888-638-7668
the date of its publication. T storage, transportation, disp information relates only to th with any other materials or i	he informations and roosal and robosal and r	ation given is designed only as a elease and is not to be considered	
		10 / 10	

Product Name: Latex Base DRYLOK Masonry Waterproofer **CAS Number: Manufacturer:** UNITED GILSONITE LABORATORIES **SDS Date:** 6/7/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: Alex Plus Acrylic Latex Caulk Plus Silicone - All Colors **CAS Number: Manufacturer:** DAP Products Inc. **SDS Date:** 10/23/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: LEMON FIELDS II DISINFECTANT CLEANER CAS Number: Manufacturer: JohnsonDiversey SDS Date: 7/10/2003

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: POLYKEN 1027 LIQUID ADHESIVE CAS Number: Manufacturer: Covalence Corrosion Protection Group SDS Date: 6/2/2006

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: AHE60912TN0 LN-609 LIQUID NAILS PANEL & FOAM ADHESIVE CAS Number: Manufacturer: Macco Adhesives SDS Date: 8/21/2007

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

SAFETY DATA SHEET

CITGO Lithoplex® RT Grease No. 2

Section 1. Identification

GHS product identifier	: CITGO Lithoplex [®] RT Grease No. 2			
Synonyms	: Lubricating grease; CITGO [®] Material Code: 655344001			
Material uses	: Lubricating grease			
Code	: 655344001			
MSDS #	: 655344001			
Supplier's details	: CITGO Petroleum Corporation P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com			
Emergency telephone number (with hours of operation)	: Technical Contact: (800) 248-4684 Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300 (United States Only)			

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	: EYE IRRITATION - Category 2A
substance or mixture	AQUATIC HAZARD (LONG-TERM) - Category 4
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Causes serious eye irritation.
	May cause long lasting harmful effects to aquatic life.
	Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.
Precautionary statements	<u>i</u>
General	: Avoid contact with eyes, skin and clothing IF SWALLOWED: Do NOT induce vomiting. After handling, always wash hands thoroughly with soap and water. If you feel unwell, seek medical attention and show the label when possible. Keep out of reach of children.
Prevention	 Wear eye or face protection. Avoid release to the environment. Wash hands thoroughly after handling.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	 Store in a dry place and/or in closed container. Store in accordance with all local, regional, national and international regulations.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: Injection of petroleum hydrocarbons requires immediate medical attention.

1/12



Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

: Mixture

: Lubricating grease;

CITGO® Material Code: 655344001

CAS number/other identifiers

CAS number

: Not applicable.

%	CAS number
≥50 - ≤75	64742-52-5
≥10 - ≤25	64742-54-7
≤10	64742-62-7
≤10	68815-49-6
<2.5	68988-45-4
	≥50 - ≤75 ≥10 - ≤25 ≤10 ≤10

* = Various ** = Mixture *** = Proprietary

Any concentration shown as a range is to protect confidentiality or is due to process variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/e	ffec	cts, acute and delayed
Potential acute health effec	<u>ts</u>	

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	 Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.
Ingestion	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

indication of immediate med	dical attention and special treatment heeded, if hecessary
Notes to physician	 In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.
Specific treatments	: Treat symptomatically and supportively.
Protection of first-aiders	 No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: This material may cause long lasting harmful effects to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. For non-emergency personnel Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". **Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

· · · · · · · · · · · · · · · · · · ·					
Date of issue/Date of revision	: 8/8/2019	Date of previous issue	: 8/2/2019	Version : 2	3/12

Section 6. Accidental release measures

Small spill	: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Bulk Storage Conditions: Do not apply heat or flame to stockpiled material. Rotate stock to reduce the potential for hot spots. Do not store with oxidizers. Minimize dust creation by keeping material moist and/or covered.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits		
Distillates (petroleum), hydrotreated heavy naphthenic	 ACGIH TLV (United States, 3/2018). TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. 		
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 3/2018). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m ³ 10 hours. Form: Mist STEL: 10 mg/m ³ 15 minutes. Form: Mist OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours.		
Residual oils (petroleum), solvent-dewaxed	ACGIH TLV (United States, 6/2013). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 4/2013). TWA: 5 mg/m ³ 10 hours. Form: Mist		
ate of issue/Date of revision : 8/8/2019 Date of previous issue	: 8/2/2019 Version : 2 4/12		

Section 8. Exposure controls/personal protection

Lithium, 12-hydroxyoctadeo	canoate sebacate complexes	STEL: 10 mg/m ³ 15 minutes. Form: Mist OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States). TWA: 10 mg/m ³ 8 hours.
Appropriate engineering controls	: Good general ventilation should be s contaminants.	sufficient to control worker exposure to airborne
Environmental exposure controls	they comply with the requirements o	rocess equipment should be checked to ensure f environmental protection legislation. In some neering modifications to the process equipment will b acceptable levels.
Individual protection measures		roughly ofter headling chemical products, before

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

		-		B	
Date of issue/Date of revision	: 8/8/2019	Date of previous issue	: 8/2/2019	Version : 2	5/12
Vapor pressure	: <0.0013	Pa (<0.01 mm Hg) [room t	emperature]		
Lower and upper explosive (flammable) limits	: Not availa	able.			
Evaporation rate	: <1 (butyl	acetate = 1)			
Flash point	: Open cup	o: >150°C (>302°F) [Estima	ted]		
Boiling point	: Not availa	able.			
рН	: Not availa	able.			
Odor	: Petroleun	1.			
Color	: Red.				
Physical state	: Solid. [Sn	nooth texture]			
<u>Appearance</u>					

Section 9. Physical and chemical properties

Vapor density	: >10 [Air = 1]
Relative density	: 0.93
Density lbs/gal	: Estimated 7.75 lbs/gal
Density gm/cm ³	: Not available.
Gravity, °API	: Estimated 21 @ 60 F
Solubility	: Insoluble in the following materials: cold water.
Flow time (ISO 2431)	: Not available.
NLGI Grade	: 2

Section 10. Stability and reactivity

Reactivity	: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 Dermal	Rat	>5000 mg/kg	-
5 5.	LD50 Oral	Rat	>5000 mg/kg	-
Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	LC50 Inhalation Dusts and mists	Rat - Male	>2 mg/l	1 hours
	LD50 Dermal	Rabbit - Male, Female	13800 mg/kg	-
	LD50 Oral	Rat - Male	3600 mg/kg	-

Conclusion/Summary

 Distillates (petroleum), hydrotreated heavy naphthenic: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.
 Distillates (petroleum), hydrotreated heavy paraffinic: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute

Section 11. Toxicological information

studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.

Irritation/Corrosion

Product/ingredient name Phosphorodithioic acid,	Result		Species	Score		Exposure	Observation
Phosphorodithioic acid			opecies	JCOIE		Lyposule	Observation
mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	Skin - Edema	a citu	Rabbit	4.8		4 hours 0.5 mL	72 hours
	Eyes - Cornea opa		Rabbit	2		0.1 mL	14 days
Skin	: No additional info						
Eyes	: No additional info						
Respiratory Sensitization	: No additional info	ormation.					
	Destant	0			D		
Product/ingredient name	exposure	Route of Species Result exposure					
Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	skin	skin Guinea pig Not sensitizing					
Skin	: No additional info	ormation.					
Respiratory	: No additional info	ormation.					
Mutagenicity Not available.							
Conclusion/Summary	: No additional info	ormation.					
Carcinogenicity Not available.							
Conclusion/Summary Reproductive toxicity Not available.	: No additional info	ormation.					
Conclusion/Summary Teratogenicity Not available.	: No additional info	ormation.					
Conclusion/Summary	: No additional info	No additional information.					
Specific target organ toxicity Not available.	<u> (single exposure)</u>	1					
Specific target organ toxicity Not available.	<u> (repeated exposu</u>	ire)					
Aspiration hazard Not available.							
nformation on the likely outes of exposure	: Routes of entry a	anticipated	l: Dermal.				
otential acute health effects							
Eye contact	: Causes serious e	eye irritatio	on.				
Inhalation	: No known signific	cant effect	ts or critical h	azards.			
Skin contact	: Injection of press Initial symptoms			an cause s	severe	permanent tis	sue damage.
Date of issue/Date of revision	: 8/8/2019 Dat	te of previo	us issue	: 8/2/2019		Versio	n :2 7

Section 11. Toxicological information

Ingestion

: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	Chronic NOAEL Oral	Rat - Male, Female	125 mg/kg	28 days
General	No known significant effects or critical hazards.			
Carcinogenicity	No known significant effects or critical hazards.			
Mutagenicity	No known significant effects or critical hazards.			
Teratogenicity	No known significant effects or critical hazards.			
Developmental effects	No known significant effects or critical hazards.			
Fertility effects	: No known significant effects of	r critical hazards.		

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts	Acute EC50 2.1 mg/l Fresh water	Algae - Selenastrum capricornutum	72 hours
	Acute LC50 46 mg/l	Fish - Cyprinodon variegatus	96 hours
	Acute NOEC 1 mg/l	Daphnia - Daphnia magna	48 hours
	Chronic NOEC 0.8 mg/l	Daphnia - Daphnia Magna	21 days

Persistence and degradability

Conclusion/Summary : Not available.

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated heavy naphthenic	-	-	Inherent

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Distillates (petroleum), hydrotreated heavy naphthenic	>6	-	high

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
	and sewers.

Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not available.	Not available.
UN proper shipping name	-	Not available.	Not available.
Transport hazard class(es)	-	Not available.	Not available.
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 14. Transport information

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: naphthalene

Clean Water Act (CWA) 311: naphthalene

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

SARA 302/304

Composition/information on ingredients

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : EYE IRRITATION - Category 2A

Composition/information on ingredients

Name	%	Classification
Phosphorodithioic acid, mixed o, o-bis(2-ethylhexyl and iso-bu and pentyl) esters, zinc salts		SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Zinc Compounds lead	- 7439-92-1	<2 trace
Supplier notification	Zinc Compounds	-	<2

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: Polymer
New York	: None of the components are listed.
New Jersey	: The following components are listed: Polymer
Pennsylvania	: The following components are listed: Polymer
Colifornia Dron CE	Clear and Decemble Wernings (2010)

California Prop. 65 Clear and Reasonable Warnings (2018)

WARNING: This product can expose you to Naphthalene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

International regulations

Inventory list

Date of issue/Date of revision	: 8/8/2019	Date of previous issue	: 8/2/2019	Version : 2
Malaysia	: Not deter	rmined.		
Japan	•	ventory (ENCS): At least o ventory (ISHL): Not detern		ot listed.
Europe	: Not deter	rmined.		
China	: All comp	onents are listed or exempted	ed.	
Canada	: All comp	onents are listed or exempted	ed.	
Australia	: All comp	onents are listed or exempted	ed.	
United States	: All comp	onents are listed or exempted	ed.	

10/12

Section 15. Regulatory information

	-	
New Zealand	: All components are listed or exempted	l.
Philippines	: All components are listed or exempted	Ι.
Republic of Korea	: Not determined.	
Taiwan	: Not determined.	
Thailand	: Not determined.	
Turkey	: Not determined.	
Viet Nam	: Not determined.	

Section 16. Other information

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

	Cleasification	luctification
	Classification	Justification
EYE IRRITATION - Categor	y 2A	Calculation method
AQUATIC HAZARD (LONG	TERM) - Category 4	Calculation method
<u>History</u>		
Date of printing	: 9/12/2019	
Date of issue/Date of revision	: 8/8/2019	
Date of previous issue	: 8/2/2019	
Version	: 2	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification a IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coeff MARPOL = International Convention for the Preventior as modified by the Protocol of 1978. ("Marpol" = marine UN = United Nations	icient of Pollution From Ships, 1973
References	: Not available.	

Indicates information that has changed from previously issued version.

Notice to reader

THE INFORMATION IN THIS SAFETY DATA SHEET (SDS) WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED REGARDING ITS CORRECTNESS OR ACCURACY. SOME INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE SUBSTANCE ITSELF. THIS SDS WAS PREPARED AND IS TO BE USED ONLY FOR THIS PRODUCT. IF THE PRODUCT IS USED AS A COMPONENT IN ANOTHER PRODUCT, THIS SDS INFORMATION MAY NOT BE APPLICABLE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR

11/12

Section 16. Other information

PRODUCTS FOR THEIR PARTICULAR PURPOSE OR APPLICATION.

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE, AND/OR DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR ANY LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

CITGO is a registered trademark of CITGO Petroleum Corporation

Product Name: Look NA Glass & Multi-Surface Cleaner CAS Number: Manufacturer: Diversey, Inc. SDS Date: 8/6/2015

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: LOXON 7% Siloxane Water Repellent CAS Number: Manufacturer: THE SHERWIN-WILLIAMS COMPANY SDS Date: 9/9/2017

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: MACROPOXY 267 Mio Epoxy PART A Grey **CAS Number: Manufacturer:** THE SHERWIN-WILLIAMS COMPANY **SDS Date:** 11/28/2019

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: MACROPOXY 267 Mio Epoxy PART B Hardener CAS Number: Manufacturer: THE SHERWIN-WILLIAMS COMPANY SDS Date: 12/1/2019

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: Misty Slip Shot II CAS Number: Manufacturer: AMREP, Inc. SDS Date: 12/5/2014

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

SAFETY DATA SHEET NO-OX-ID A

Section 1 – Identification

GHS product identifier	: NO-OX-ID A
Product Code	: 5000-N
Other means of identification	: Not available
Product type	: Solid

Relevant indentified areas of uses of the substance of mixture and uses advised against Identified uses: Rust preventive coating and lubricant

Uses advised against: Not available	Reason:
Supplier's details	: Sanchem Inc 1600 S. Canal St Chicago, IL 60616

Emergency Telephone Number: 24 hr. Chemtrec 1-800-424-9300

Section 2 – Hazard identification

OSHA/HCS status : While this materials is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of substance or mixture: Not Classified

GHS label elements				
Signal word	: No signal word.			
Hazard statements	: No significant effects or critical	hazards.		
Precautionary statements				
Prevention	: Not applicable			
Response	: Not applicable			
Storage	: Not applicable			
Disposal	: Not applicable			
Hazards not otherwise classified	: None known.			
	, · · · · · · · · · · · · · · · ·			
Section 3 – Composition/info	ormation on ingredients			
Substance/mixture	: Mixture			
Chemical Name	: Not available			
Other means of identification	: Not available			
CAS number/other identifiers				
CAS number	: Not applicable			
Ingredient Name			%	CAS#

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4 – First aid measures

-	: Immediately flush eye with plenty of water, occasionally lifting the upper and eyelids. Check for and remove any contact lens. Get medical attention.	
Inhalation : symptoms occur.	: Remove victim to fresh air and keep at rest in a position comfortable to breathing. Get medical attention if	
	: Wash skin thoroughly with soap and water or use recognized skin cleaner. Remove contaminated clothing and shoes. Get medical attention if systems occur.	
	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position (Swallowing): First id is not normally required; however, if swallowed and symptoms develop, seek medical attention.	
Most important syn Potential acute heal	nptoms/effects, acute and delayed	
Eye contact	: No known significant effects or critical hazards	
Inhalation	: No known significant effects of critical hazards	
Skin contact	: No known significant effects or critical hazards	
Ingestion	: No known significant effects or critical hazards	
Over-exposure signs	s/symptoms	
Eye contact	: No specific data	
Inhalation	: No specific data	
Skin contact	: No specific data	
Ingestion	: No specific data	
	liate medical attention and special treatment needed, if necessary	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large	
Cassific treatments	quantities have been ingested or inhaled.	
Specific treatments Protection of first-a	: No specific treatment.	
Frotection of mist-a	iders : No action shall be taken involving any personal risk or without suitable training.	
See toxicological inf	formation (Section 11)	
	fighting measures	
Extinguishing media	a	
Suitable extinguishi media		
Unsuitable extinguis media		
Specific hazards ari from the chemical	sing : No specific fire or explosion hazard.	
Hazardous thermal decomposition prod	: No specific data. ucts	
Special protective a		
for fire-fighters training.	there is a fire. No action shall be taken involving any personal risk or without suitable	
Special protective		

Section 6 – Accidental release measures

Personal precautions, prote	ective equipment and emergency procedures
For non-emergency	: No action shall be taken involving any personal risk or without suitable training. Evacuate personnel surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	• Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for	containment and cleaning up
Small spill	 Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Section 7 – Handling a	nd storage
Precautions for safe handlin	
Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advise on general Occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage	: Store in accordance with local regulations. Store in original container protected from including any direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials incompatibilities (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully reseated and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Section 8 – Exposure c	controls/personal protection

Control parameters Occupational exposure limits: None.

Appropriate engineering:
ControlsGood general ventilation should be sufficient to control worker exposure to
airborne contaminants.Environmental controls:Emissions from ventilation or work process equipment should be checked to ensure they comply
with the requirements of environmental protection legislation. In some cases, fume scrubbers,
filters or engineering modifications to the process equipment will be necessary to reduce emissions
to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Section 9 – Physical a	and chemical properties
Appearance Physical state Color Odor Odor threshold pH Melting point	 Solid. waxy solid Colorless. to brown Hydrocarbon. Not available >140-150°F / 60-66°C

Menning point	· >140-130 F / 00-00 C
Boiling point	: >450 F / 232 °C
Flash point	: Open cup: >232°C (>450°F) [Cleveland.]
Evaporation rate	: Not available
Flammability (solid, gas)	: Not available
Lower and upper explosive	: Not available
(flammable) limits	
Vapor pressure	: <0.0013 kPa (<0.01 mm Hg) [room temperature]
Solubility	
Partition coefficient: n-	: 6
octanol/water	
Auto-ignition temperature	: > 554 °F (290 °C)
Decomposition temperature	e: Not available
Viscosity	: Kinematic (40°C (104T)): >0.25 cm ² /s (>25 cSt)

Section 10 – Stability and reactivity

Reactivity ingredients.	: No specific test data related to reactivity available for this product or its
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition should products	: Under normal conditions of storage and use, hazardous decomposition products not be produced.

Section 11 – Toxicological information

Information on toxicological effects Acute toxicity

Carcinogenicity

Product/ingredient name		Result	Species	Dose	Exposure
					-
Sensitization	: Not av : Not av : Not av	ailable.			

Conclusion/Summary : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

Reproductive toxicity: Not available.Teratogenicitv: Not available.Specific target organ toxicity (single exposure): Not available.Specific target organ toxicity (repeated exposure): Not available.Information on the likely routes of exposure: Not available.

: Not available.

Potential acute health effects: No known significant effects or critical hazardsEye contact: No known significant effects or critical hazardsInhalation: No known significant effects or critical hazardsSkin contact: No known significant effects or critical hazardsIngestion: No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate effects : Not available. Potential delayed effects : Not available. Long term exposure Potential immediate effects : Not available. Potential delayed effects : Not available. Potential chronic health effects: Not available. : Not available. General Carcinogenicity : Not available. Mutagenicity : Not available. : Not available. Teratogenicity **Developmental effects** : Not available. Fertility effects : Not available.

Numerical measures of toxicity Acute toxicity estimates : Not available.

Section 12 – Ecological information

Toxicitv

Product/ingredient name	Result	Species	Exposure
	Acute EC50>1 00 mg/l Acute EC50>1 00 mg/l Acute LC50>1 00 mg/l		72 hours 48 hours 96 hours

Persistence and degradability

Section 13 – Disposal considerations

Bioaccumulative potential Product/ingredient name LogPow BCF Potential Petrolatum 6 high

Mobility in soil

Other adverse effects

Soil/water partition coefficient (Koc) : Not available.

: No known significant effects or critical hazards.

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification: Not Regulated

Section 14 –transportation information

	DOT Classification	TDG Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

Section 15 – Regulatory information

U.S. Federal regulations TSCA8(a) CDR Exempt/Partial exemption: This material is listed or exempted. This material is listed or exempted.

Clean Air Act Section 112 : Not listed (b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed Class I Substances

Section 15 – Regulatory information continued:

Clean Air Act Section 602 Class II Substances	: Not listed
DBA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals	: Not listed

<u>SARA 302/304</u>		
<u>Composition/information on ingredients</u> :	No products were found	d.

SARA 304 RQ	: Not applicable.	
SARA 311/312 Classification	: Not applicable.	

Composition/information on ingredients No products were found.

State regulations	
Massachusetts	: This material is not listed
New York	: This material is not listed
New Jersey	: This material is not listed
Pennsylvania	: This material is not listed

California Prop. 65

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Internati	onal lists
National	inventory

Australia	: This material is listed or exempted.
Canada	: This material is listed or exempted.
China	: This material is listed or exempted.
Europe	: This material is listed or exempted
Japan	: This material is listed or exempted
Malaysia	: This material is listed or exempted
New Zealand	: This material is listed or exempted
Philippines	: This material is listed or exempted
Republic of Korea	: This material is listed or exempted
Taiwan	: This material is listed or exempted

Section 16 – Other information

<u>History</u> Date of issue/Da Version	ate of revision	: 12-5-2018 : 1
H-Health	: 0	
Flammability	:0	

Physical Hazards : 0

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Product Name: Oxygen CAS Number: 7782-44-7 Manufacturer: Air Liquide America Specialty Gases LLC SDS Date: 8/7/2014

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

Product Name: P.C.Q. PELLETED RODENT BAIT CAS Number: Manufacturer: Bell Laboratories, Inc. SDS Date: 1/1/2016

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

<i>P.C.Q. Ro</i>	dentic	cide-CA	A 24	C M	ISD	S	
MANUFACTURER'S ADDR BELL LABORATORIES, INC. 3699 Kinsman Blvd, Madison,	RIES, INC. BY: CAR (608) 241-0202 Medical Madison, WI 53704 (877) 854-2494 (877) 854-2494		94				
PRODUCT NAME: P.C.Q. 1	Rodenticide-C	A 24c	•			Transportation (Spills) (800) 424-9300 CHEMTREC	
USE: Anticoagulant Roder	nticide	BAIT FORM: Formulated D	ory Bait			CAL NEED N N NO. : 1245	O: CA780146 5-50003-AA
	SECTIO	N I. HAZARI	DOUS I	INGRED	IENTS		
INGREDIENT NAME					% BY	WEIGHT	CURRENT TLV
Diphacinone [2-(Diphenylacety CAS No. 82-66-6		· · · -				.01%	N/A
This product c		nents subject to the readment and Reauthor				3 of the Superf	rund
	SE	CTION II. PH	HYSIC	AL DAT	A		
APPEARANCE: Pellet	COLOR: Pale	Green	ODOR:	weet, grain-l	ike	SPECIFIC	GRAVITY: N/A
VAPOR DENSITY: N/A	MELTING PO	DINT: N/A	WATER	REACTIVI N/A	TY:	EVAPORATION RATE: N/A	
VAPOR PRESSURE: N/A	BOILING POINT: N/A		SOLUBILITY: Not soluble in water		BULK DENSITY: 0.929 g/cc		
	SECTION	III. FIRE AN	ND EXI	PLOSIO	N DAT.	A	
FLASH POINT (Method Used):FLAMMABN/AUpper Lim							
EXTINGUISHING MEDIA: Extinguish with water, foam or inert gas.							
SPECIAL FIREFIGHTING PROCEDURES: Firefighters should be equipped with protective clothing and self-contained breathing apparatus.							
UNUSUAL FIRE OR EXPLOSION HAZARDS: None							
	SECTION	IV. REACTI	VITY	HAZAR	D DAT	A	
STABILITY: Stable	CONDITIONS TO AVOID: None						
POLYMERIZATION: Will not occur	CONDITIONS TO AVOID: None						
INCOMPATIBILITY (MATERIALS TO AVOID): Strongly alkaline materials		HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon			N PRODUCTS:		
	SE	CTION V. TO	OXICI	ГҮ ДАТ.	A		
LD50, ORAL (INGESTION): >5000 mg/kg (rats)		50, DERMAL (SK > 5001 mg	KIN CONTACT):LC50, INHALATION:ng/kg (rats)N/A				
EYE IRRITATION: None (rabbits)			abbits)) DERMAL SENSITIZATION: Not considered a Sensitizer			
Trade Name: PCQ Rodenticide C	A 24c]	Date Last Upd	ated: December 2010 Page 1 of 2

Supplier: Bell Laboratories, Inc. Part No. 6601-1

Page 1 of 2

P.C.Q Rodenticide CA-24c MSDS

~ SI	ECTION VI. HE	CALTH HAZA	RDS	
PRIMARY ROUTE OF ENTRY: Ingestion	SIGNS & SYMPTOMS OF EXPOSURE: Nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, bleeding.			
 EMERGENCY FIRST AID PROCEDURES: Eyes: Flush with cool water for at least 15 minutes. If irritation develops, obtain medical assistance. Skin: Wash with soap and water. Ingestion: Call physician or emergency phone number immediately. Do not give anything by mouth or induce vomiting unless instructed by physician. Inhalation: None. 				
NOTE TO PHYSICIAN: If ingested, admin Repeat as necessary as based upon monitorin			indicated by bishydroxycoumarin overdoses.	
SECTION VII	CONTROL AN	ND PROTECT	IVE MEASURES	
RESPIRATOR TYPE: Not required				
EYE PROTECTION: Not required		ecommended): ober Gloves	VENTILATION: Not required	
OTHER PROTECTIVE MEASURES: Not required	I			
NATIONAL FIRE PROTECTION ASSO HEALTH: 1 (Caution) FIRE: 0 (Wil		TINGS: EACTIVITY: 0 (Stal	ble) SPECIFIC HAZARD: None	
HAZARDOUS MATERIALS IDENTIFIC HEALTH: 2 (Moderate) FLAMMABI		-	nimal) PROTECTIVE EQUIPMENT: B	
SECTIO	N VIII. SPILL (OR LEAK PRO	OCEDURES	
STEPS TO BE TAKEN IN THE EVENT Sweep up spilled material, place in properly):	
WASTE DISPOSAL METHOD: Wastes resulting from use may be disposed of on-site or at an approved waste disposal facility. Dispose of all wastes in accordance with all Federal, state and local regulations.				
SECTION IX. SP	PECIAL PRECA	UTIONS ANI	O STORAGE DATA	
		HELF LIFE: table for a minimum of	of 1 year when stored at room temperature.	
SPECIAL SENSITIVITY (HEAT, LIGHT Avoid exposure to light and extreme humidit	· · · · · · · · · · · · · · · · · · ·			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place inaccessible to children, pets and wildlife. Keep container tightly closed when not in use. Avoid contamination of lakes, streams and ponds by use, storage or disposal. Wash thoroughly with soap and water after handling.				
	SECTION X. S.	HIPPING DAT	ΓΑ	
DOT SHIPPING NAME: None required				
DOT LABELS REQUIRED: None required		FREIGHT CLASS	IFICATION: LTL Class 60	
WARRANTY: The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. Bell Laboratories, Inc. provides no warranties, either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all current data relevant to their particular use.				
Trade Name: PCQ Rodenticide CA 24c Supplier: Bell Laboratories, Inc. Part No. 6601-1			Date Last Updated: December 2010 Page 1 of 2	

SAFETY DATA SHEET



pH7Q

Section 1. Identification		
GHS product identifier	: pH7Q	
Product code	: 316	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Identified uses		
Disinfectant		
Uses advised against	Reason	
For Industrial and Institution	al Use Only -	
Supplier's details	: Betco Corporation 400 Van Camp Road Bowling Green, Ohio 43402 www.betco.com 888-462-3826	
Emergency telephone number (with hours of operation)	: Chemtrec (800) 424-9300 24 hour	
EPA Details	: EPA Statement: This chemical is a product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-EPA registered chemicals.	

	Below is the signal word as required on the label:
EPA Establishment Number	: 4170
EPA Registration Number	: 47371-131
EPA Signal Word	: Danger

Section 2. Hazards identification

Date of issue/Date of revision

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Causes serious eye damage. Causes skin irritation.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection: Recommended: safety glasses. Wash hands thoroughly after handling.

Section 2. Hazards identification

pH7Q

Response	: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	%	CAS number
didecyldimethylammonium chloride	≤3 <1 9	7173-51-5
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	≤1.8	68424-85-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Date of issue/Date of revision	: 11/19/2019	Date of previous issue	: 7/30/2019	Version : 2	2/12
--------------------------------	--------------	------------------------	-------------	-------------	------

Section 4. First aid measures

Potential acute health effect	t <u>s</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protec	ive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name			Exposure limits	,S		
didecyldimethylammonium chloride Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides			None. None.			
Date of issue/Date of revision	: 11/19/2019	Date of previous issue	: 7/30/2019			4/12 246 of 374

Section 8. Exposure controls/personal protection

Appropriate engineering controls	 If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	res
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: safety glasses
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Personal protective equipment (Pictograms)	

Section 9. Physical and chemical properties

Appearance							
Physical state	: Liquid.						
Color	: Yellow.						
Odor	: Lemon-lik	e.					
Odor threshold	: Not availa	ble.					
рН	: 7.2 to 8.2						
Melting point	: Not available.						
Boiling point	: Not availa	: Not available.					
Flash point	: Closed cu	p: Not applicable. [Produc	t does not sustain co	mbustion.]			
Evaporation rate	: Not availa	ble.					
Date of issue/Date of revision	: 11/19/2019	Date of previous issue	: 7/30/2019	Version : 2	5/12		

Page 247 of 374

Section 9. Physical and chemical properties

pH7Q

-	
Flammability (solid, gas)	: Not available.
Lower and upper explosive	: Not available.
(flammable) limits	
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.998
Solubility	: Easily soluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n-	: Not available.
octanol/water	
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity					
Product/ingredient name	Result	Species	Dose	Exposure	
didecyldimethylammonium chloride	LD50 Oral	Rat	84 mg/kg	-	
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	LD50 Oral	Rat	426 mg/kg	-	

Irritation/Corrosion **Observation Product/ingredient name** Result **Species** Score **Exposure** Rabbit 500 didecyldimethylammonium Skin - Severe irritant _ chloride milligrams Quaternary ammonium Skin - Severe irritant Rabbit 25 milligrams _ compounds, benzyl-C12-16-alkyldimethyl, chlorides

Sensitization

Not available.

Mutagenicity

Section 11. Toxicological information

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Routes of entry anticipated: Oral, Dermal. Routes of entry not anticipated: Inhalation.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation.
Ingestion	:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact		Adverse symptoms may include the following: pain
		watering redness
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	:	Adverse symptoms may include the following: stomach pains
Delayed and immediate effec	<u>ts</u>	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
General		No known significant effects or critical bazards

Date of issue/Date of revision	: 11/19/2019	Date of previous issue	: 7/30/2019		
Mutagenicity	: No known significant effects or critical hazards.				
Carcinogenicity	: No known significant effects or critical hazards.				
General	: No known significant effects or critical hazards.				

Section 11. Toxicological information

Teratogenicity
Developmental effects
Fertility effects

- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.
- Fertility effects
- : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
	26843.1 mg/kg 415.88 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
didecyldimethylammonium chloride	Acute EC50 110 µg/l Fresh water	Algae - Chlorella pyrenoidosa - Exponential growth phase	72 hours
	Acute EC50 14.22 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 18 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 39 µg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 0.01 µg/l Fresh water	Fish - Acipenser transmontanus - Larvae	96 hours
	Chronic NOEC 25 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Chronic NOEC 125 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	Acute EC50 37 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 64 ppb Fresh water Chronic NOEC 4.15 ppb Fresh water Chronic NOEC 32.2 ppb	Fish - Oncorhynchus mykiss Daphnia - Daphnia magna Fish - Pimephales promelas	96 hours 21 days 34 days

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

: No known significant effects or critical hazards. Other adverse effects

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according	1	Not available.
to Annex II of MARPOL and		
the IBC Code		

Section 15. Regulatory information

U.S. Federal regulations	• •	proposed test rules : Qι kyldimethyl, chlorides	uaternary ammonium	compounds, benzyl-		
	TSCA 8(a)	TSCA 8(a) CDR Exempt/Partial exemption: Not determined				
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed					
Clean Air Act Section 602 Class I Substances	: Not listed					
Clean Air Act Section 602 Class II Substances	: Not listed					
DEA List I Chemicals (Precursor Chemicals)	: Not listed					
DEA List II Chemicals (Essential Chemicals)	: Not listed					
<u>SARA 302/304</u>						
Date of issue/Date of revision	: 11/19/2019	Date of previous issue	: 7/30/2019	Version : 2	9/12	

Section 15. Regulatory information

Composition/information on ingredients

No products were found.

SARA 311/312

: Not applicable.

Classification

: SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

Composition/information on ingredients

Name	%	Classification
didecyldimethylammonium chloride		ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides		ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1

State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: The following components are listed: ETHYL ALCOHOL; ALCOHOL
Pennsylvania	: The following components are listed: DENATURED ALCOHOL; ETHANOL
California Prop. 65	

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Date of issue/Date of revision	: 11/19/2019	Date of previous issue	: 7/30/2019	Version : 2	10
United States	: All compo	onents are listed or exemp	ted.		
Turkey	: Not deter	mined.			
Thailand	: Not deter	mined.			
Taiwan	: Not deter	mined.			
Republic of Korea	: Not deter	mined.			
Philippines	: Not deter	mined.			
New Zealand	: Not deter	mined.			
Malaysia	: Not deter	mined			
Japan	•	ventory (ENCS): Not dete ventory (ISHL): Not deter			
Europe	: Not deter	mined.			
China	: Not deter	mined.			
Canada	: Not deter	mined.			
Australia	: Not deter	mined.			

pH7Q

Section 15. Regulatory information

Viet Nam

: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

	Classification	Justification
SKIN IRRITATION - Catego SERIOUS EYE DAMAGE - (Calculation method Calculation method	
<u>History</u>		
Date of printing	: 11/19/2019	
Date of issue/Date of revision	: 11/19/2019	
Date of previous issue	: 7/30/2019	
Version	: 2	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification IATA = International Air Transport Association IBC = International Air Transport Association	pefficient tion of Pollution From Ships, 1973
References	: Not available.	
Indicates information the	at has changed from previously issued version.	

Section 16. Other information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

There was a problem getting the SDS for -

Product Name: PHOSPHORIC ACID 7 - 75% (v/v) Aqueous Solutions **CAS Number:** 7664-38-2 **Manufacturer:** Ricca Chemical Company LLC **SDS Date:** 3/12/2013

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

MSDS Name: POLYSEAMSEAL(R) PAINTABLE ACRYLIC w/ silicone CAULK-CLEAR MSDS Number: sD11535C Version Number MSDS Date: JAN-24-2001 Page Number: 1 _____ SECTION I - PRODUCT AND COMPANY INFORMATION POLYSEAMSEAL(R) PAINTABLE ACRYLIC w/ Product Name: silicone CAULK-CLEAR Hazard Rating: Health: 1 Fire: 0 Reactivity: 0 PPI: B Company Identification: OSI SEALANTS, INC. 7405 PRODUCTION DRIVE MENTOR OH 44060 Safety Officer Contact: (440) 255-8900 (440) 974-2395 Telephone/Fax: Emergency Phone (24 hour) CHEMTREC (800) 424-9300 (703) 527-3887 Chemtrec (outside-USA) T.F.Barr Preparer Sr. R.&D. Chemist Acrylic Latex Caulk Product Class Trade Name POLYSEAMSEAL Product Code -- CLEAR SECTION II - INGREDIENT AND HAZARD INFORMATION Ingredient Name CAS Number Percent TSCA No OSHA hazardous ingredients known at this time. SECTION III - PHYSICAL AND CHEMICAL PROPERTIES Form: Milky-white Caulk Appearance/Color: dries CLEAR Solubility (in water): yes pH Value, +/-.3: Boiling Range: 8. 212.øF (100.øC) Boiling Range:212.ØF (100.ØC)Vapor Pressure (mmHg):15.@ 68.ØF (20.ØC)Evaporation Rate:0.5 times Slower than n-Butyl Acetate Vapor Density: Heavier than air % Volatile, Weight 38.% _____

MSDS Name: POLYSEAMSEAL(R) PAINTABLE ACRYLIC w/ silicone CAULK-CLEAR MSDS Number: sD11535C Version Number MSDS Date: JAN-24-2001 2 Page Number: _____ approx. 40.% % Volatile, Volume Specific Gravity: 1.055 VOC (less H2O or exempt) <16 g/l Heavy Elements (ppm) 0. NOTE: Odor : Mild acrylic odor. Freeze Point : 32 Deg F SECTION IV - FIRE FIGHTING MEASURES (Flash, UEL, LEL for solvent only) Flammability Class N/A Flash Range: Not Applicable Explosive Range (LEL/UEL): Not Applicable EXTINGUISHING MEDIA: Dry chemical -- Carbon Dioxide -- Foam -- Water Fog Will not burn in wet state. SPECIAL FIRE-FIGHTING PROCEDURES: Water may be used to cool and protect exposed containers. Caution should be taken because uncured material is water soluble. UNUSUAL FIRE AND EXPLOSION HAZARDS: Any closed container may burst when exposed to extreme heat or fire. SECTION V - HEALTH HAZARD DATA ROUTES OF ENTRY: Inhalation? Yes | Skin? Yes | Ingestion? Yes TARGET ORGANS... None- No hazardous ingredients per OSHA Regulations CARCINOGENICITY... NTP? N/A | IARC Monographs? N/A | OHSA? NO EFFECTS OF OVEREXPOSURE Inhalation: May irritate respiratory tract. Skin/Eye Contact: May cause irritation. Swallowing large amounts may cause nausea, Ingestion: vomiting. (an unlikely route of entry) FIRST AID MEASURES Inhalation: If affected by inhalation, remove to fresh air. Eye Contact: Flush with water for at least 15 minutes, and get prompt medical attention. Skin Contact: Wash skin thoroughly with soap and water.

MSDS Name: POLYSEAMSEAL(R) PAINTABLE ACRYLIC w/ silicone CAULK-CLEAR MSDS Number: sD11535C Version Number MSDS Date: JAN-24-2001 3 Page Number: _____ Ingestion: Drink water, and get medical attention. _____ N/A= Not applicable N/AV=Not available N/E, N/est=Not established SECTION VI - STABILITY AND REACTIVITY Stability: This product is stable Hazardous Polymerization: Hazardous polymerization will not occur INCOMPATABILITY: None CONDITIONS TO AVOID: None HAZARDOUS DECOMPOSITION PRODUCTS: May produce oxides of carbon and oxides of nitrogen when burned. SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES: STEPS TO BE TAKEN IN CASE OF SPILL: Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal. WASTE DISPOSAL METHOD: Dispose of in accordance with Federal, State, and Local regulations. SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION Occupational Exposure Limits ACGIH TLV-C ACGIH STEL OSHA STEL ACGIH TLV OSHA PEL RESPIRATORY PROTECTION: NIOSH approved respirators recommended if vapors and mists are generated. VENTILATION: Local exhaust is recommended for safe practice. PROTECTIVE CLOTHING: Rubber gloves and impervious clothing should be worn to prevent repeated skin contact. EYE PROTECTION: Splashproof goggles or safety glasses should be worn. HANDLING AND STORAGE PRECAUTIONS: Keep from freezing. Keep away from heat. Keep out of the reach of children

MSDS Name: POLYSEAMSEAL(R) PAINTABLE ACRYLIC w/ silicone CAULK-CLEAR MSDS Number: sD11535C Version Number MSDS Date: JAN-24-2001 Page Number: 4 _____ Keep containers closed when not in use Avoid prolonged or repeated contact with skin. SECTION IX - TRANSPORT INFORMATION: DOT CLASSIFICATIONS FOR CARTRIDGES 10 or 29 oz. DESCRIPTION: Non-hazardous DOT CLASSIFICATIONS for 1 GALLON or larger CONTAINERS DESCRIPTION: Non-hazardous Caulking type product SECTION X - REGULATORY INFORMATION: California PROP.65 Chemicals: none known This product is regulated by SARA Sections 311,312 solely because it is regulated by OSHA Hazard Communication standard (29CFR 1910.1200). However none of the five Hazard Catagories (SARA 311, 312) are appropriate for this product. SARA Section 313 toxic chemicals: NONE All ingredients TSCA listed. DISCLAIMER: The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and the user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment, and the health and safety of the users of this material.

Last Page

PRODUCT NAME: POURSTONE ANCHORING CEMENT HMIS CODES: H F R P PRODUCT CODE: 8024 1 0 0 E MANUFACTURER'S NAME: Custom Building Products, Inc. ADDRESS: 6511 SALT LAKE AVE., BELL, CA. 90201 EMERGENCY PHONE: (323) 582-0846 INFORMATION PHONE: (323) 582-0846 DATE REVISED : 02-27-04 NAME OF PREPARER : STEVE TAYLOR ======= SECTION II - INGREDIENTS/SARA III INFORMATION ========= OCCUPATIONAL EXPOSURE VAPOR LIMITS PRESSURE Wt. CAS NUMBER OSHA PEL ACGIH TLV mm Hg @ TEMP % -----COMPONENTS _____
 PORTLAND CEMENT
 65997-15-1
 5MG/M3DUST
 10MG/M3

 GYPSUM
 26499-65-0
 5MG/M3
 10MG/M3
 N/A N/A *** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. *** BOILING RANGE: N/A SPECIFIC GRAVITY (H2O=1): 2.8 EVAPORATION RATE: N/A VAPOR DENSITY: N/A SOLUBILITY IN WATER: SLIGHT APPEARANCE AND ODOR: COLORED POWDER NO ODOR FLASH POINT: N/A FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: N/A UPPER: N/A EXTINGUISHING MEDIA: NONE KNOWN SPECIAL FIREFIGHTING PROCEDURES NONE REQUIRED. UNUSUAL FIRE AND EXPLOSION HAZARDS NONE REQUIRED

Page 261 of 374

STABILITY: STABLE

CONDITIONS TO AVOID NONE

INCOMPATIBILITY (MATERIALS TO AVOID) NONE

HAZARDOUS DECOMPOSITION OR BYPRODUCTS NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE CHRONIC: CEMENT DUST CAN CAUSE INFLAMMATION OF THE LINING TISSUE OF THE INTERIOR OF THE NOSE AND INFLAMMATION OF THE EYE. HYPERSENSITIVE INDIVIDUALS MAY DEVELOP AN ALLERGIC DERMATITUS (skin rash).

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE ACUTE: WET CEMENT, ESPECIALLY AS AN INGREDIENT IN PLASTIC (unhardened) CONCRETE, CAN DRY THE SKIN AND CAUSE ALKALI BURNS. CEMENT DUST CAN IRRITATE THE EYES AND UPPER RESPIRATORY SYSTEM.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE NONE

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE NONE

HEALTH HAZARDS (ACUTE AND CHRONIC)

THIS PRODUCT CONTAINS ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. THE STATE OF CALIFORNIA (PROP. 65) REQUIRES THE ABOVE WARNING IN THE ABSENCE OF DEFINITIVE TESTING TO PROVE THAT THE DEFINED RISKS DO NOT EXIST. WE BELIEVE THIS PRODUCT COMPLIES WITH ALL OTHER APPLICABLE STATE AND FEDERAL LAWS AND REGULATIONS GOVERNING MANUFACTURE, DISTRIBUTION AND INTENDED USE.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO PORTLAND CEMENTS ARE NOT LISTED BY NTP, IARC, OR OSHA AS CONTAINING CARCINOGENS. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE HYPERSENSITIVE INDIVIDUALS MAY DEVELOP SKIN RASH.

EMERGENCY AND FIRST AID PROCEDURES EYE CONTACT: IRRIGATE EYES WITH WATER;CONSULT PHYSCIAN IMMEDIATELY. SKIN CONTACT: WASH EXPOSED AREAS WITH SOAP AND WATER IMMEDIATELY. IHALED: WEAR APPROVED RESPIRATOR IN DUSTY ENVIRONMENT. SWALLOWED: CONSULT A PHYSICIAN. 8024

PAGE 3 OF 3

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED CLEAN-UP USING DRY METHODS THAT DO NOT DISPERSE DUST INTO THE AIR. AVOID BREATHING THE DUST. EMERGENCY PROCEDURES ARE NOT REQUIRED.

WASTE DISPOSAL METHOD DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING STORE IN DRY LOCATION.

OTHER PRECAUTIONS NONE

RESPIRATORY PROTECTION APPROVED NIOSH RESPIRATOR.

VENTILATION AVOID GENERATING DUST.

PROTECTIVE GLOVES IMPERVIOUS GLOVES SHOULD BE WORN TO PREVENT SKIN CONTACT.

EYE PROTECTION THE USE OF TIGHT GOGGLES ARE RECOMMENDED TO, PREVENT EYE IRRITATION FROM CEMENT DUST.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT. THE USE OF BARRIER CREAMS OR GLOVES IMPERVIOUS BOOTS AND CLOTHING TO PROTECT THE SKIN FROM CONTACT WITH WET CEMENT.

WORK/HYGIENIC PRACTICES GOOD HOUSEKEEPING PROCEDURES SHOULD BE FOLLOWED AT ALL TIMES.

DISCLAIMER

THE INFORMATION PRESENTED HERE IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

Page 265 of 374

PERMALITE PLASTICS CORP -- ULTRA-STRENGTH POXY PUTTY 1124 BASE -- 8040-01-124-9735

Product ID:ULTRA-STRENGTH POXY PUTTY 1124 BASE MSDS Date:01/01/1985 FSC:8040 NIIN:01-124-9735 MSDS Number: BGMYX === Responsible Party === Company Name: PERMALITE PLASTICS CORP Emergency Phone Num:714-548-1137 CAGE:14703 === Contractor Identification === Company Name: PERMALITE PLASTICS CORP Address:1537 MONROVIA AVE City:NEWPORT BEACH State:CA ZIP:92663-2806 Country:US CAGE:14703 Ingred Name: EPOXY Fraction by Wt: 44.2% Ingred Name:SILICATES Frection by Wt: 53.3% Ingred Name: PIGMENT Fraction by Wt: 2.09% Ingred Name: GLYCERIN CAS:56-81-5 RTECS #:MA8050000 Fraction by Wt: 0.39% OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 (MIST) 9293 Effects of Overexposure:STRONG SENSITIZER First Aid:EYE: FLUSH IMMEDIATELY WITH WATER AND GET MEDICAL ATTN. SKIN: REMOVE WITH SOAP & WATER, CONSULT PHYSICIAN IF RASH APPEARS. INGESTION: INDUCE VOMITING, GET MEDICAL ATTENTION. Flash Point:>480F/248C (COC) Extinguishing Media:WATER SPRAY,FOAM,CO*2,DRY CHEMICAL Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS. Spill Release Procedures: REMOVE BY SHOVELING OR SCRAPING INTO SALVAGE

1 - E a.

DRUMS, WASHING WITH SOLVENTS. GUARD AGAINST FIRE HAZARD IF SOLVENTS ARE USED. Handling and Storage Precautions:STORE IN COOL DRY AREA, PREFERABLY BELOW 90F/32C. Other Precautions: ONE YEAR MINIMUM GUARANTED SHELF LIFE AT 70F/21C. Ventilation:MECHANICAL Protective Gloves:RUBBER/PLASTIC Eye Protection: SAFETY GLASSES Supplemental Safety and Health PART A OF A TWO PART KIT.KEY1:N1. HCC:V4 Vapor Pres:<1 Spec Gravity:1.64 Solubility in Water:NEGLIGIBLE Appearance and Odor: BLUE PASTE SLIGHT EPOXY ODOR. Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, STRONG LEWIS OR MINERAL ACIDS. rdous Decomposition Products:CARBON MONOXIDE, ALDEHYDES, ACIDS. Waste Disposal Methods: COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS. Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.

PERMALITE PLASTICS CORP -- ULTRA-STRENGTH POXY PUTTY 1124 CATALYST -- 8040-01-121-9735 Product ID:ULTRA-STRENGTH POXY PUTTY 1124 CATALYST MSDS Date:01/01/1985 FSC:8040 NIIN:01-124-9735 MSDS Number: BGMYY === Responsible Party === Company Name: PERMALITE PLASTICS CORP Emergency Phone Num:714-548-1137 CAGE:14703 === Contractor Identification === Company Name: PERMALITE PLASTICS CORP Address:1537 MONROVIA AVE City:NEWPORT BEACH State:CA ZIP:92663-2806 Country:US CAGE:14703 Ingred Name: POLYAMINE Fraction by Wt: 49% J red Name:SILICATE /tion by Wt: 50.2% Ingred Name: PIGMENT Fraction by Wt: 2.09% Ingred Name: GLYCERIN CAS:56-81-5 RTECS #:MA8050000 Fraction by Wt: 0.4% OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 (MIST) 9293 Effects of Overexposure:STRONG SENSITIZER First Aid:EYE: FLUSH IMMEDIATELY WITH WATER AND GET MEDICAL ATTENTION. SKIN: REMOVE WITH SOAP & WATER, CONSULT PHYSICIAN IF RASH DEVELOPS. INGESTION: INDUCE VOMITING & GET MEDICAL ATTENTION. Flash Point:>180F/82C Extinguishing Media:WATER, CO*2, FOAM, DRY CHEMICAL

р., ну , д Spill Release Procedures: REMOVE BY SHOVELING OR SCRAPING INTO SALVAGE DRUMS, WASHING WITH SOLVENTS. GUARD AGAINST FIRE HAZARD IF SOLVENTS ARE USED. Handling and Storage Precautions:STORE IN COOL, DRY AREA, PREFERABLE BELOW 90F/32C. Other Precautions: ONE YEAR MINIMUM GUARANTEED SHELF LIFE AT 70F/21C. Ventilation:MECHANICAL Protective Gloves:RUBBER/PLASTIC Eye Protection: SAFETY GLASSES Supplemental Safety and Health PART B OF A TWO PART KIT.KEY1:F8. HCC:V4 Spec Gravity:1.47 Solubility in Water:NEGLIGIBLE Appearance and Odor: BLACK PASTE SLIGHT AMMONIA ODOR. Stability Indicator/Materials to Avoid:YES STRONG ACIDS. rdous Decomposition Products: TOXIC FUMES AT DECOMPOSITION TEMPERATURES. Conditions to Avoid Polymerization: EPOXY RESINS UNDER UNCONTROLLED CONDITIONS. Waste Disposal Methods: COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS. Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their

http://hazard.com/msds/f2/hgm/bgmvv.html

particular situation.

There was a problem getting the SDS for -

Product Name: Prestone Starting Fluid **CAS Number: Manufacturer:** Prestone Products Corporation **SDS Date:** 11/22/2019

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

WELD×	ON .	GI	HS SAFE		FA SHEI	ET		Data Data i	IAN 2010	
	WEL	.D-ON® P-70™	Low VOC	Primer for	PVC and	CPVC Plas	stic Pipe	Date Revised: Supersedes:		
SECTION I - PRODU										
PRODUCT NAME: PRODUCT USE:	WELD-ON® P-70™ Low VOC Primer for P			C Plastic Pip	e					
SUPPLIER:	Low VOC Filmer for F			ACTURER:	IPS Corporat	tion				
					17109 South	Main Street, C 9, Gardena, CA				
EMERGENCY: Transportat	ion: CHEMTEL Tel. 800	.255-3924, +1 813-	248-0585 (Inte	rnational)			00.255-3924,	+1 813-248-0	585 (Internationa	al)
SECTION 2 - HAZA	RDS IDENTIFICA	TION								
HIS CLASSIFICATION:	ealth		Enviror	nmental		T	Pł	nysical		
Acute Oral Toxicity:	Category 4	Acute Toxicit	ty:	None Known		Flammable Li			Category 2	
Skin Irritation: Skin Sensitization:	Category 3 NO	Chronic Toxi	city:	None Known	l.					
Carcinogenity	Category 2									
ye:	Category 2									
GHS LABEL:	<u>ک</u> چې		Signal Word: Danger	:		WHMIS CLASS	SIFICATION:	CLASS B, D CLASS D, D		
	Hazard Statement	S				Precautiona	ary Statement	<u>s</u>		
1225: Highly flammable liquid a						oarks/open flame		- No smoking		
I319: Causes serious eye irrita I332: Harmful if inhaled	001					ne/gas/mist/vapo protective clothin		n/face protection	ı	
1335: May cause respiratory irr				P304+P340: IF	INHALED: Ren	nove victim to fre	esh air and keep	at rest in a pos	ition comfortable fo	or breathi
336: May cause drowsiness o 351: Suspected of causing ca						ntilated place. Ke tainer in accorda				
UH019: May form explosive p				. Joi. Dispose	or contents/con	amer in accorda	ande witti 100dl I	oguiation		
SECTION 3 - COMP	POSITION/INFORM									
		CAS	EINECS		ACH on Number	C	ONCENTRATIO % by Weight			
etrahydrofuran (THF)		109-99-9	203-726-8	01-2119444	314-46-0000		45 - 59	-		
lethyl Ethyl Ketone (MEK) yclohexanone		78-93-3 108-94-1	201-159-0 203-631-1		290-43-0000 616-35-0000		19 - 29 5 - 15			
cetone		67-64-1	200-662-2		330-49-0000		5 - 20			
Il of the constituents of thi										
Indicates this chemical is indicates that this chemic									UFK312).	
SECTION 4 - FIRST										
Contact with eyes:	Flush eyes immediatel									
Skin contact: Inhalation:	Remove contaminated Remove to fresh air.									
Ingestion:	Rinse mouth with wate									
ikely Routes of Exposure		n, Eye and Skin Co	ontact			-				
Acute symptoms and effe Inhalation:	cts: Severe overexposure r	may result in nause	a dizzinase h	eadache Car	cause drows	iness irritation	of eves and	nacal naccad	20	
Eye Contact:	Vapors slightly uncomf									id.
Skin Contact:	Liquid contact may ren		0		Dermatitis ma	y occur with pr	olonged cont	act.		
Ingestion: Chronic (long-term) effect	May cause nausea, vo	miting, diarrhea and y 2 Carcinogen	d mental sluggi	ishness.						
SECTION 5 - FIREF										
Suitable Extinguishing	Media: Dry cher	nical powder, carbo	on dioxide gas,	foam, Halon,	water fog.		HMIS	NFPA	0-Minimal	
Unsuitable Extinguishin Exposure Hazards:		pray or stream. In and dermal conta	act			Health Flammability	2 3	2 3	1-Slight 2-Moderate	
Combustion Products:		of carbon and smok				Reactivity	0	0	3-Serious	
Protection for Firefighte	re Colf con	tained breathing ap	naratue or full	face positive -		PPE e masks	В		4-Severe	
ECTION 6 - ACCII		01		ace positive p	nessure airline	s masks.				
Personal precautions:		A WEASURES		ime.						
-	Provide	sufficient ventilation	n, use explosio	n-proof exhau	st ventilation e	quipment or w	/ear suitable r	espiratory pro	tective equipmer	nt.
Environmental Precautio		contact with skin or product or liquids c			m enterina se	wers, drains s	oil or open w	ater course		
Methods for Cleaning up	: Clean up	with sand or other	r inert absorber	nt material. Tr						
Materials not to be used			plastic contain	ners						
SECTION 7 - HAND			nd elethin -							
	ng of vapor, avoid conta om ignition sources, use			ng equipment a	and ensure ad	equate ventila	tion/fume exh	aust hoods.		
Do not eat, dr	rink or smoke while hand	dling.								
	lated room or shade belo om ignition sources and				ganic acids. c	hlorinated con	npounds. stro	ng oxidizers a	nd isocvanates	
Follow all pre	cautionary information o	n container label, p	roduct bulleting	s and solvent	cementing liter	rature.				
SECTION 8 - PREC	AUTIONS TO COL		1	1	1	1		1	1	1
XPOSURE LIMITS:	Component	ACGIH 8 hour TLV	ACGIH 15 min STEL	OSHA 8 hour PEL	OSHA 15 min STEL	OSHA PEL-Ceiling	CAL/OSHA 8 hour PEL	CAL/OSHA Ceiling	CAL/OSHA 15 min STEL	
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm	1
	Methyl Ethyl Ketone (M Cyclohexanone	1EK) 200 ppm 20 ppm	300 ppm 50 ppm	200 ppm 50 ppm	N/E N/E	N/E N/E	200 ppm 25 ppm	N/E N/E	300 ppm N/E	
	Acetone	250 ppm	500 ppm	1000 ppm	N/E	N/E N/E	25 ppm 500 ppm	3000 ppm	750 ppm	
Engineering Controls:	Use local exhaust as n					<u>. </u>				-
Monitoring: Personal Protective Equ	Maintain breathing zon inment (PPF):	e airborne concent	rations below e	exposure limits	i.					
Eye Protection:	Avoid contact with eye			ggles, face shi	eld, safety gla	sses (spectacl	es) with brow	guards and s	ide shields,	
		ricks for the owneeu	ro							
Elvin Drotoot!	etc. as may be approp			whether star	about the	ad for f	t income a !			
Skin Protection:	etc. as may be appropriate of the prevent contact with the Use of solvent-resistant	ne skin as much as	possible. Butyl					nal adhesive a	application	
Skin Protection: Respiratory Protection:	Prevent contact with th	ne skin as much as nt gloves or solvent- res are used for ma	possible. Butyl -resistant barrie aking structural	er cream shou bonds.	ld provide ade	equate protection	on when norn			



GHS SAFETY DATA SHEET

 Date Revised:
 JAN 2019

 WELD-ON® P-70™ Low VOC Primer for PVC and CPVC Plastic Pipe
 Supersedes:
 DEC 2018

Appearance: Odor: pH: Melting/Freezing Point: Biash Point: Specific Gravity: Solubility: Partition Coefficient n-o Auto-ignition Temperat	Clear or purp Ethereal Not Applicabl				
pH: Melting/Freezing Point: Boiling Point: Flash Point: Specific Gravity: Solubility: Partition Coefficient n-o		e, thin liquid		O day Theorem and	0.00 mm (Ovelah suma a)
Melting/Freezing Point: Boiling Point: Flash Point: Specific Gravity: Solubility: Partition Coefficient n-o	Not Applicabl	•		Odor Threshold:	0.88 ppm (Cyclohexanone)
Boiling Point: Flash Point: Specific Gravity: Solubility: Partition Coefficient n-o	-108 5°C (-16	e 3.3°F) Based on first melting	component: THE	Boiling Range:	56°C (133°F) to 156°C (313°F)
Flash Point: Specific Gravity: Solubility: Partition Coefficient n-o		Based on first boiling compo		Evaporation Rate:	> 1.0 (BUAC = 1)
Solubility: Partition Coefficient n-o		TCC based on Acetone		Flammability:	Category 2
Partition Coefficient n-o	0.858 @23°C			Flammability Limits:	LEL: 1.1% based on Cyclohexar
		on soluble in water.		-	UEL: 12.8% based on Acetone
Auto ignition Tomporate		Not Available		Vapor Pressure:	190 mm Hg @ 20°C (68°F) Aceto
) based on THF		Vapor Density:	>2.0 (Air = 1)
Decomposition Temper				Other Data: Viscosity:	Water-thin
VOC Content:		as directed, per SCAQMD F	Rule 1168, Test Method 316	A, VOC content is: < 550 g/l.	
SECTION 10 - STABI	LITY AND REACTIV				
Stability:		Stable			
Hazardous decompositi	on products:			t gives off oxides of carbon a	ind smoke.
Conditions to avoid:		Keep away from heat, sparl		nition sources.	
Incompatible Materials:		Oxidizers, strong acids and	i bases, amines, ammonia		
SECTION 11 - TOXIC	OLOGICAL INFORM	IATION			
Toxicity:		LD50		LC50	Target Organs
Tetrahydrofuran (THF)	Oral: 2842 m			hrs. 21,000 mg/m ³ (rat)	STOT SE3
Methyl Ethyl Ketone (MEK)		g/kg (rat), Dermal: 6480 mg/k		hrs. 23,500 mg/m ³ (rat)	STOT SE3
Cyclohexanone		g/kg (rat), Dermal: 948 mg/kg		hrs. 8,000 PPM (rat)	
Acetone	Oral: 5800 m	g/kg (rat)	Inhalation 5	0,100 mg/m ³ (rat)	STOT SE3
Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established
SECTION 12 - ECOLO		ION		*	
SECTION 13 - WASTI	E DISPOSAL CONS	IDERATIONS			
Follow local and national regul	lations. Consult disposal e	xpert.			
SECTION 14 - TRANS					
Proper Shipping Name:		iquid, n.o.s. (Acetone, Tetrah	nydrofuran)		
Hazard Class:	3	·			
	None	DOT Limited		CEPTION for Ground Ship	u lui ai
Secondary Risk:					
Identification Number:	UN 1993			er packaging, 30 kg gross we	eight per package.
Identification Number: Packing Group:	PG II	Consumer Con		er packaging, 30 kg gross we	
Identification Number: Packing Group: Label Required:	PG II Class 3 Flam	Consumer Con		er packaging, 30 kg gross we	eight per package.
Identification Number: Packing Group:	PG II	Consumer Con		er packaging, 30 kg gross we packaging, these quantities m	eight per package.
Identification Number: Packing Group: Label Required:	PG II Class 3 Flam	Consumer Company Consumer Company Consumer Company Consumer Construction Consumer Co	ommodity: Depending on p	er packaging, 30 kg gross we packaging, these quantities m	eight per package.
Identification Number: Packing Group: Label Required:	PG II Class 3 Flam NO TDG CLASS: SHIPPING N/	Consumer Co mable Liquid AME:	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (er packaging, 30 kg gross we packaging, these quantities m	eight per package.
Identification Number: Packing Group: Label Required:	PG II Class 3 Flam NO TDG CLASS: SHIPPING N/	Consumer Co mable Liquid	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3	er packaging, 30 kg gross we vackaging, these quantities m TION	eight per package.
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI	PG II Class 3 Flam NO TDG CLASS: SHIPPING N, UN NUMBER	AME: //PACKING GROUP: TION	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II	er packaging, 30 kg gross we aackaging, these quantities m TION Acetone, Tetrahydrofuran)	ight per package. ay qualify under DOT as "ORM-D
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf	PG II Class 3 Flam NO TDG CLASS: SHIPPING N, UN NUMBER LATORY INFORMAT	Consumer Co mable Liquid AME: /PACKING GROUP:	TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI	er packaging, 30 kg gross we vackaging, these quantities rr TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe	iight per package. lay qualify under DOT as "ORM-D
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols:	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER LATORY INFORMAT formation: Highly Flamm F, Xi	AME: //PACKING GROUP: TION	TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI	er packaging, 30 kg gross we aackaging, these quantities m TION Acetone, Tetrahydrofuran)	iight per package. lay qualify under DOT as "ORM-D
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: R	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER LATORY INFORMAT formation: Highly Flamm F, Xi 11: Highly flammable.	AME: //PACKING GROUP: TION	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (VIN 1993, PG II at. 2 Ingredient LI AICS, Kr	er packaging, 30 kg gross we vackaging, these quantities m TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI	ight per package. lay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS)
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: R R	PG II Class 3 Flam NO TDG CLASS: SHIPPING N, UN NUMBER LATORY INFORMA [*] formation: Highly Flamm F, Xi 111: Highly flammable. 20: Harmful by inhalation.	AME: //PACKING GROUP: TION hable, Irritant, (CarcTHF) Ca	TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeate	er packaging, 30 kg gross we vackaging, these quantities rr TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ad exposure may cause skin dr	iight per package. lay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) yness or cracking
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: R R R	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER AND STATES AND STATES SHIPPING N. UN NUMBER INFORMAT F, Xi 111: Highly flammable. 20: Hamful by inhalation. 36/37: Irritating to eyes and	AME: //PACKING GROUP: TION hable, Irritant, (CarcTHF) Ca respiratory system.	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeatr R67: Vapors	er packaging, 30 kg gross we aackaging, these quantities rr TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ad exposure may cause skin dr may cause drowsiness and diz:	ight per package. lay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) yness or cracking ziness
Identification Number: Packing Group: Label Required: Marine Pollutant: Secction 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: R R Safety Phrases: Si	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER COMMERTING N. UN NUMBER COMMERTING N. UN NUMBER COMMERTING NO. TO SHIP STATES COMMERTING STATES COMMENTING STATES COMME	Consumer Co mable Liquid	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeat R67: Vapors S26: In case of contact with	er packaging, 30 kg gross we aackaging, these quantities m TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ed exposure may cause skin dr may cause drowsiness and diz eyes, rinse immediately with pl	ight per package. lay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) vness or cracking ziness lenty of water and seek medical advir
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: Safety Phrases: S	PG II Class 3 Flam NO TDG CLASS: SHIPPING N, UN NUMBER LATORY INFORMA formation: Highly Flamm F, Xi 11: Highly flammable. 20: Harmful by inhalation. 36/37: Irritating to eyes and 9: Keep container in a well-v 16: Keep away from sources	Consumer Co mable Liquid	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeate R66: Repeate R67: Vapors S26: In case of contact with S33: Take precautionary me	er packaging, 30 kg gross we wackaging, these quantities m TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECLTCCL, Japan MITI ed exposure may cause skin dr may cause drowsiness and diz eyes, rinse immediately with pj asures against static discharge	ight per package. lay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) yness or cracking ziness lenty of water and seek medical advir is.
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: Safety Phrases: S	PG II Class 3 Flam NO TDG CLASS: SHIPPING N, UN NUMBER LATORY INFORMA formation: Highly Flamm F, Xi 11: Highly flammable. 20: Harmful by inhalation. 36/37: Irritating to eyes and 9: Keep container in a well-v 16: Keep away from sources 25: Avoid contact with eyes.	Consumer Co mable Liquid	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeate R66: Repeate R67: Vapors S26: In case of contact with S33: Take precautionary me	er packaging, 30 kg gross we aackaging, these quantities m TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ed exposure may cause skin dr may cause drowsiness and diz eyes, rinse immediately with pl	ight per package. lay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) yness or cracking ziness lenty of water and seek medical advir is.
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: R Safety Phrases: S Safety Phrases: S S	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER LATORY INFORMAT formation: Highly Flamm F, Xi 111: Highly flammable. 20: Harmful by inhalation. 36/37: Irritating to eyes and 9: Keep container in a well-v 16: Keep away from sources 25: Avoid contact with eyes. his SDS was prepared to 1	AME: //PACKING GROUP: TION hable, Irritant, (CarcTHF) Ca respiratory system. rentilated place. s of ignition - No smoking. be in accordance with:	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeate R67: Vapors S26: In case of contact with S33: Take precautionary me S46: If swallowed, seek med	er packaging, 30 kg gross we wackaging, these quantities m TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECLTCCL, Japan MITI ed exposure may cause skin dr may cause drowsiness and diz eyes, rinse immediately with pj asures against static discharge	ight per package. lay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) yness or cracking ziness lenty of water and seek medical advir is.
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: Safety Phrases: S Compliance Statement: U	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER COMMERCIAL TOTAL STREAM COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL CLASS COMMERCIAL CLASS COM	Consumer Co mable Liquid	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary me S46: If swallowed, seek mee 10.1200 (Rev 2012)	er packaging, 30 kg gross we wackaging, these quantities rr TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ad exposure may cause skin dr may cause drowsiness and diz- way cause drowsiness and diz- tages, rinse immediately with pl wasures against static discharge lical advise immediately and st	ight per package. Iay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) ress enty of water and seek medical advi- is. Now this container or label.
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: Safety Phrases: S Compliance Statement: U	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER COMMERCIAL TOTAL STREAM COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL CLASS COMMERCIAL CLASS COM	AME: //PACKING GROUP: TION hable, Irritant, (CarcTHF) Ca respiratory system. rentilated place. s of ignition - No smoking. be in accordance with:	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary me S46: If swallowed, seek mee 10.1200 (Rev 2012)	er packaging, 30 kg gross we wackaging, these quantities rr TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ad exposure may cause skin dr may cause drowsiness and diz- way cause drowsiness and diz- tages, rinse immediately with pl wasures against static discharge lical advise immediately and st	ight per package. Iay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) ress enty of water and seek medical advi- is. Now this container or label.
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: R Safety Phrases: S Compliance Statement: T U ESECTION 16 - OTHEF	PG II Class 3 Flam NO TDG CLASS: SHIPPING N, UN NUMBER LATORY INFORMAT formation: Highly Flamm F, Xi 11: Highly flammable. 20: Harmful by inhalation. 36/37: Irritating to eyes and 9: Keep container in a well-v 16: Keep away from sources 25: Avoid contact with eyes. this SDS was prepared to 1 SO SHA Hazard Commun Suropean Regulation (EC) I R INFORMATION	Consumer Co mable Liquid	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary me S46: If swallowed, seek mee 10.1200 (Rev 2012)	er packaging, 30 kg gross we wackaging, these quantities rr TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ad exposure may cause skin dr may cause drowsiness and diz- way cause drowsiness and diz- tages, rinse immediately with pl wasures against static discharge lical advise immediately and st	ight per package. Iay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) ress enty of water and seek medical advi- is. Now this container or label.
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: Safety Phrases: Compliance Statement: ESECTION 16 - OTHEF Specification Informatic	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER LATORY INFORMAT formation: Highly Flamm F, Xi 111: Highly flammable. 20: Hamful by inhalation. 36/37: Irritating to eyes and 9: Keep container in a well-v 16: Keep away from sources 25: Avoid contact with eyes. this SDS was prepared to I IS OSHA Hazard Commun European Regulation (EC) In RINFORMATION	Consumer Commable Liquid	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeatr R67: Vapors S26: In case of contact with S33: Take precautionary me S46: If swallowed, seek med 10.1200 (Rev 2012) Cation, labelling and packag	er packaging, 30 kg gross we wackaging, these quantities rr TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ad exposure may cause skin dr may cause drowsiness and diz- way cause drowsiness and diz- tages, rinse immediately with pl wasures against static discharge lical advise immediately and st	ight per package. Iay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) ress enty of water and seek medical advi- is. Now this container or label.
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: Safety Phrases: Compliance Statement: U EECTION 16 - OTHEE Specification Informatic Department Issuing dat	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER LATORY INFORMAT formation: Highly Flamm F, Xi 111: Highly flammable. 20: Hamful by inhalation. 36/37: Irritating to eyes and 9: Keep container in a well-v 16: Keep away from sources 25: Avoid contact with eyes. this SDS was prepared to I IS OSHA Hazard Commun European Regulation (EC) In RINFORMATION	Consumer Common	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeatr R67: Vapors S26: In case of contact with S33: Take precautionary me S46: If swallowed, seek med 10.1200 (Rev 2012) Cation, labelling and packag	er packaging, 30 kg gross we wackaging, these quantities rr TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ad exposure may cause skin dr may cause drowsiness and diz- way cause drowsiness and diz- tages, rinse immediately with pl wasures against static discharge lical advise immediately and st	ight per package. Iay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) ress enty of water and seek medical advi- is. Now this container or label.
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: R Safety Phrases: S Compliance Statement: T U E SECTION 16 - OTHEF Specification Informatic Department issuing dat E-mail address:	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER LATORY INFORMAT formation: Highly Flamm F, Xi 111: Highly flammable. 20: Hamful by inhalation. 36/37: Irritating to eyes and 9: Keep container in a well-v 16: Keep away from sources 25: Avoid contact with eyes. this SDS was prepared to I IS OSHA Hazard Commun European Regulation (EC) In RINFORMATION	Consumer Co mable Liquid	mmodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary me S46: If swallowed, seek mee 10.1200 (Rev 2012) cation, labelling and package ponmental Affairs	er packaging, 30 kg gross we wackaging, these quantities m TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ed exposure may cause skin dr may cause drowsiness and diz eyes, rinse immediately with pi saures against static discharge fical advise immediately and st <i>ting of substances and mixtu</i>	ight per package. Iay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) ress enty of water and seek medical advi- is. Now this container or label.
Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REGUI Precautionary Label Inf Symbols: Risk Phrases: Safety Phrases: Compliance Statement: U EECTION 16 - OTHEE Specification Informatic Department Issuing dat	PG II Class 3 Flam NO TDG CLASS: SHIPPING N. UN NUMBER LATORY INFORMAT formation: Highly Flammable. 20: Hamful by inhalation. 36/37: Irritating to eyes and 9: Keep container in a well-v- 16: Keep away from sources 25: Avoid contact with eyes. his SDS was prepared to I IS OSHA Hazard Communi- turopean Regulation (EC) In R INFORMATION Dn: a sheet:	Consumer Common	ommodity: Depending on p TDG INFORMA FLAMMABLE LIQUID 3 FLAMMABLE LIQUID 3 Flammable Liquid, n.o.s. (UN 1993, PG II at. 2 Ingredient LI AICS, K R66: Repeate R67: Vapors S26: In case of contact with S33: Take precautionary me S46: If swallowed, seek me to.1200 (Rev 2012) cation, labelling and package ponmental Affairs nd procedures contained in	er packaging, 30 kg gross we wackaging, these quantities m TION Acetone, Tetrahydrofuran) istings: USA TSCA, Europe orea ECL/TCCL, Japan MITI ed exposure may cause skin dr may cause drowsiness and diz eyes, rinse immediately with pi saures against static discharge fical advise immediately and st <i>ting of substances and mixtu</i>	ight per package. Iay qualify under DOT as "ORM-D EINECS, Canada DSL, Australia (ENCS) ress enty of water and seek medical advi- is. Now this container or label.

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

	ON ®		GI	HS SAFE	ETY DA	TA SHE	ET			
			ELD-ON®)711™ Low	VOC PVC	Plastic Pi	ipe Cement	s	Date Revised: Supersedes:	
SECTION I - PROD	UCT AND C	OMPANY I	DENTIFIC	ATION						
PRODUCT NAME:				ic Pipe Cemen	its					
PRODUCT USE:	Low VOC Sol	lvent Cement f	or PVC Plastic	c Pipe						
SUPPLIER:				MANUF	ACTURER:	IPS Corporat		ordono. CA	00240 2427	
							Main Street, G 9, Gardena, CA			
						Tel. 1-310-89	98-3300			
MERGENCY: Transporta				248-0585 (Inte	rnational)	Medical: CH	EMTEL Tel. 80	0.255-3924	, +1 813-248-0	585 (International)
SECTION 2 - HAZA SHS CLASSIFICATION:	IRDS IDENT	IFICATION	<u> </u>							
Н	lealth				nmental				hysical	
Acute Toxicity: Skin Irritation:	Category 4 Category 3		Acute Toxicity Chronic Toxic	-	None Known None Known		Flammable Lic	luid		Category 2
Skin Sensitization:	NO			Sity.	None Known					
ye:	Category 2		<u> </u>							
GHS LABEL:				Signal Word: Danger	:		WHMIS CLASSI	FICATION:	CLASS B, D CLASS D, D	
				Dango					02.00 5, 5	
		tatements					Precautional			
225: Highly flammable liquid 319: Causes serious eye irrita							arks/open flames ne/gas/mist/vapor		 – No smoking 	
332: Harmful if inhaled					P280: Wear pr	otective gloves/	protective clothing	/eye protection		
335: May cause respiratory ir 336: May cause drowsiness of							nove victim to fres ntilated place. Kee			ition comfortable for breathing
1351: Suspected of causing ca	ancer						tainer in accordar			
UH019: May form explosive p SECTION 3 - COM		NEORMATI	ON ON IN	GREDIENT	s					
	301101(/1		CAS#	EINECS #	RE	ACH		NCENTRAT		
etrahydrofuran (THF)			109-99-9	203-726-8	Pre-registration 05-21162977			% by Weight 40 - 50	<u> </u>	
lethyl Ethyl Ketone (MEK))		78-93-3	201-159-0	05-21162977	28-24-0000		5 - 15		
cyclohexanone			108-94-1 67-64-1	203-631-1 200-662-2	05-21162977			9 - 18 3 - 11		
I of the constituents of th	is adhesive proc	duct are listed					ed by the US E	PA, or are e	exempt from th	at listing.
Indicates this chemical is indicates that this chemic										OCFR372).
SECTION 4 - FIRS		-								
Contact with eyes:				ter for 15 minut						
Skin contact: Inhalation:							ter. If irritation s difficult, give of			
Ingestion:	Rinse mouth	with water. Gi	ve 1 or 2 glass	ses of water or			ce vomiting. Se			
Likely Routes of Exposur Acute symptoms and effective		Inhalation, Ey	e and Skin Co	ontact						
Inhalation:							iness, irritation			
Eye Contact: Skin Contact:				ils resulting in s						tact with the liquid.
Ingestion:	May cause na	ausea, vomiting	g, diarrhea and				ay occur with pr			
Chronic (long-term) effec Chronic (long-term) effec		Category 2 Ca Low level chr	arcinogen	a mentai siugg			ay occur with pro			
			onic exposure		ishness.	Dermatitis ma		rment of the	e central nervo	us system.
SECTION 5 - FIRE	FIGHTING M				ishness.	Dermatitis ma	ay occur with promotion of the promotion	rment of the	e central nervo	us system.
Suitable Extinguishing	Media:	IEASURES Dry chemical	powder, carbo		ishness. own to cause o	Dermatitis ma	mory and impai	HMIS	NFPA	0-Minimal
	Media:	IEASURES	powder, carbo pr stream.	e has been sho on dioxide gas,	ishness. own to cause o	Dermatitis ma				-
Suitable Extinguishing Unsuitable Extinguishing	Media:	IEASURES Dry chemical Water spray of Inhalation and	powder, carbo or stream. d dermal conta	e has been sho on dioxide gas,	ishness. own to cause o foam, Halon,	Dermatitis ma	mory and impai Health Flammability Reactivity	HMIS 2 3 0	NFPA 2	0-Minimal 1-Slight 2-Moderate 3-Serious
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards:	Media: ng Media:	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl	powder, carbo or stream. d dermal conta bon, hydrogen	e has been sho on dioxide gas, act	ishness. own to cause o foam, Halon, smoke	Dermatitis ma decreased me water fog.	mory and impai Health Flammability Reactivity PPE	HMIS 2 3	NFPA 2 3	0-Minimal 1-Slight 2-Moderate
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefighte SECTION 6 - ACCI	Media: ng Media: ers:	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-contained	powder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES	e has been sho on dioxide gas, act n chloride and s oparatus or full-	ishness. wwn to cause of foam, Halon, smoke face positive	Dermatitis ma decreased me water fog.	mory and impai Health Flammability Reactivity PPE	HMIS 2 3 0	NFPA 2 3	0-Minimal 1-Slight 2-Moderate 3-Serious
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI	Media: ng Media: ers:	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-contained IEASE ME Keep away fro	powder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, spark	e has been sho on dioxide gas, act n chloride and s opparatus or full- iks and open fla	ishness. own to cause of foam, Halon, smoke face positive ame.	Dermatitis ma decreased me water fog. pressure airlin	mory and impai Health Flammability Reactivity PPE e masks.	HMIS 2 3 0 B	NFPA 2 3 0	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions:	Media: ng Media: ers: IDENTAL RE	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-contained ELEASE ME Keep away fro Provide suffic Prevent conta	powder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, spark ient ventilatior act with skin or	e has been sho on dioxide gas, act n chloride and s opparatus or full- ks and open fila n, use explosio r eyes (see sec	ishness. www.to.cause.com foam, Halon, smoke -face positive ame. n-proof exhau ction 8).	Dermatitis ma decreased me water fog.	mory and impai Health Flammability Reactivity PPE e masks. equipment or w	HMIS 2 3 0 B ear suitable	NFPA 2 3 0	0-Minimal 1-Slight 2-Moderate 3-Serious
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti	Media: ng Media: ers: IDENTAL RE ons:	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-contained IEASE ME Keep away fr Provide suffic Prevent conta Prevent produ	powder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, spart ient ventilatior act with skin or act or liquids c	e has been sho on dioxide gas, act n chloride and s opparatus or full- ks and open fla n, use explosio re eyes (see sec contaminated w	ishness. wwn to cause of foam, Halon, smoke face positive ame. on-proof exhau- ction 8). vith product fro	Dermatitis ma decreased me water fog. pressure airlin ist ventilation o om entering se	Health Flammability PPE e masks. equipment or w wwers, drains, s	HMIS 2 3 0 B ear suitable	NFPA 2 3 0	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning uj Materials not to be used	Media: ng Media: ers: DENTAL RE ons: p: g: d for clean up:	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-contained ELEASE ME Keep away frr Provide suffic Prevent conta Prevent produ Clean up with	powder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, spari ient ventilatior ict with skin or uct or liquids c sand or other Aluminum or	e has been sho on dioxide gas, act n chloride and s opparatus or full- ks and open fla n, use explosio re eyes (see sec contaminated w	ishness. www.to.cause.co foam, Halon, smoke face positive ame. on-proof exhau- stion 8). vith product fro th material. T	Dermatitis ma decreased me water fog. pressure airlin ist ventilation o om entering se	mory and impai Health Flammability Reactivity PPE e masks. equipment or w	HMIS 2 3 0 B ear suitable	NFPA 2 3 0	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning up Materials not to be usee SECTION 7 - HANI	Media: ng Media: ers: DENTAL RE ons: p: f for clean up: DLING AND	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-containee ELEASE ME Keep away fr Provide suffic Prevent conta Prevent produ Clean up with STORAGE	powder, carbo pr stream. d dermal conta bon, hydrogen d breathing ap EASURES CASURES om heat, spark- ient ventilatior act with skin or act or ther Aluminum or	e has been sho on dioxide gas, act n chloride and s oparatus or full- ks and open fla ks and open fla ks and open fla r eyes (see sec contaminated w r inert absorbe plastic contain	ishness. www.to.cause.co foam, Halon, smoke face positive ame. on-proof exhau- stion 8). vith product fro th material. T	Dermatitis ma decreased me water fog. pressure airlin ist ventilation o om entering se	Health Flammability PPE e masks. equipment or w wwers, drains, s	HMIS 2 3 0 B ear suitable	NFPA 2 3 0	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning up Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away fi	Media: ng Media: ers: DENTAL RE ons: p: 1 for clean up: DLING AND DLING AND orni gofi vapor, ave rom ignition sour	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-contained IEASE ME Keep away fro Provide suffic Prevent conta Clean up with STORAGE Oid contact with rees, use only	powder, carbo r stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, spark- ient ventilatior act or liquids c s sand or other Aluminum or h eyes, skin ar	e has been sho on dioxide gas, act n chloride and s opparatus or full- ks and open fila n, use explosio r eyes (see sec contaminated w r inert absorber plastic contain nd clothing.	ishness. wwn to cause of foam, Halon, smoke eface positive ame. on-proof exhau ztion 8). vith product fro nt material. T ivers	Dermatitis ma decreased me water fog. pressure airlin ist ventilation o om entering se ransfer to a cl	mory and impai Health Flammability PPE e masks. equipment or w evers, drains, s osable steel ver	HMIS 2 3 0 B ear suitable car suitable coil or open v ssel.	NFPA 2 3 0	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning up Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away fi Do not eat, c	Media: ng Media: ers: DENTAL RE p: f for clean up: DLING AND ing of vapor, avo rom ignition souu trink or smoke w	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-containee ELEASE ME Keep away fro Provide suffic Prevent conta Prevent produ Clean up with STORAGE Oid contact witi rces, use only while handling.	powder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, spari- ient ventilation cut with skin or uct or liquids c sand or other Aluminum or h eyes, skin ar electrically gro	e has been sho on dioxide gas, act n chloride and s oparatus or full- ks and open fla ks and open fla ks and open fla r eyes (see sec contarminated w r inert absorbe plastic contain ind clothing. ounded handlir	ishness. wh to cause of foam, Halon, smoke face positive ame. on-proof exhau vith product front material. T iers ag equipment :	Dermatitis ma decreased me water fog. pressure airlin ist ventilation o om entering se ransfer to a cl	mory and impai Health Flammability PPE e masks. equipment or w evers, drains, s osable steel ver	HMIS 2 3 0 B ear suitable car suitable coil or open v ssel.	NFPA 2 3 0	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefights SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning un Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away fi Do not eat, c Storage: Store in vent Keep away fi	Media: ng Media: ers: IDENTAL RE ons: p: 1 for clean up: DLING AND ing of vapor, avo rom ignition souu trink or smoke w illated room or sil illated room or sil	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-contained IEASE MI Keep away frr Provide suffic Prevent conta Clean up with STORAGE Oid contact with roes, use only rhile handling. hade below 44	powder, carbo pr stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, sparf- ient ventilatior act with skin or act or liquids c sand or other Aluminum or h eyes, skin ar electrically grc °C (110°F) an npatible mater	e has been sho on dioxide gas, act n chloride and s oparatus or full- ks and open fil n, use explosio r eyes (see sec ontaminated w r inert absorber plastic contain und clothing. ounded handlir nd away from d rials: caustics,	ishness. wwn to cause of foam, Halon, smoke face positive ame. on-proof exhau- tion 8). vith product frr nt material. T iers ag equipment : irect sunlight. ammonia, ino	Dermatitis ma decreased me water fog. pressure airlin ist ventilation of om entering se ransfer to a cl and ensure ad rganic acids, c	mory and impai Health Flammability PPE e masks. equipment or w wers, drains, s osable steel ve:	HMIS 2 3 0 B ear suitable bil or open v ssel.	NFPA 2 3 0 respiratory pro water course.	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe ptective equipment.
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning up Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away fi Do not eat, o Storage: Store in vent Keep away fi Follow all pre-	Media: ng Media: ers: DENTAL RE ons: p: f for clean up: DLING AND DLING AND UNG Yapor, aver rom ignition soun trink or smoke w illated room or si illated room or si uiton sounke w ecautionary infor	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-contained ELEASE ME Keep away fro Provide suffic Prevent conta Prevent produ Clean up with STORAGE oid contact with rees and incom mation on com	powder, carbo proveder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, sparf ient ventilation ient ventilation ient ventilation ient ventilation ient ventilation of other s and or other s and or other a Aluminum or h eyes, skin ar electrically grc °C (110°F) an patible mater tainer label, pri	e has been sho on dioxide gas, act n chloride and s oparatus or full- ks and open fla n, use explosio r eyes (see sec contaminated w r jastic contain nd clothing. ounded handlir nd away from d away from d	ishness. wwn to cause of foam, Halon, smoke face positive ame. n-proof exhau tion 8). ith product from nt material. T ithere are a solvent is irect sunlight. irect sunlight.	Dermatitis ma decreased me water fog. pressure airlin ist ventilation of mentering se ransfer to a cl and ensure ad rganic acids, c cementing lite	mory and impai Health Flammability Reactivity PPE e masks. equipment or w wers, drains, s osable steel vest lequate ventilati chlorinated com rature.	HMIS 2 3 0 B ear suitable bil or open v ssel.	NFPA 2 3 0 respiratory pro water course.	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe ptective equipment.
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning up Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away fi Do not eat, o Storage: Store in vent Keep away fi Follow all pre-	Media: ng Media: ers: DENTAL RE ons: p: f for clean up: DLING AND DLING AND UNG Yapor, aver rom ignition soun trink or smoke w illated room or si illated room or si uiton sounke w ecautionary infor	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-contained ELEASE ME Keep away fro Provide suffic Prevent conta Prevent produ Clean up with STORAGE oid contact with rees and incom mation on com	powder, carbo proveder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, sparf ient ventilation ient ventilation ient ventilation ient ventilation ient ventilation of other s and or other s and or other a Aluminum or h eyes, skin ar electrically grc °C (110°F) an patible mater tainer label, pri	e has been sho on dioxide gas, act n chloride and s oparatus or full- ks and open fla n, use explosio r eyes (see sec contaminated w r jastic contain nd clothing. ounded handlir nd away from d away from d	ishness. wwn to cause of foam, Halon, smoke face positive ame. n-proof exhau tion 8). ith product from nt material. T ithere are a solvent is irect sunlight. irect sunlight.	Dermatitis ma decreased me water fog. pressure airlin ist ventilation of mentering se ransfer to a cl and ensure ad rganic acids, c cementing lite	mory and impai Health Flammability Reactivity PPE e masks. equipment or w wers, drains, s osable steel vest lequate ventilati chlorinated com rature.	HMIS 2 3 0 B ear suitable coil or open v ssel.	NFPA 2 3 0 respiratory pro water course. haust hoods.	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe ptective equipment.
Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning up Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away fi Do not eat, c Storage: Store in vent Keep away fi	Media: ng Media: ers: DENTAL RE ons: p: d for clean up: DLING AND ing of vapor, avor rom ignition sour drink or smoke w itated room or sl room ignition sour acautionary infor CAUTIONS T Comp	IEASURES Dry chemical Water spray of Inhalation and Oxides of carl Self-contained IEASE ME Keep away fror Provent conta Prevent conta Clean up with STORAGE oid contact with rcces, use only thile handling. To CONTRY	powder, carbc powder, carbc or stream. d dermal conta bon, hydrogen d breathing ap EASURES Dom heat, sparf- ient ventilatior act or liquids c s and or other Aluminum or h eyes, skin ar electrically gro °C (110°F) an npatible mater tainer label, pr OL EXPOS ACGIH TLV	e has been sho on dioxide gas, act n chloride and s oparatus or full- ks and open fla n, use explosio r eyes (see sec contaminated w r inert absorber plastic contain ind clothing. ounded handlir nd away from d rials: caustics, roduct bulletins SURE / PEF ACGIH STEL	ishness. wwn to cause of foam, Halon, smoke face positive ame. on-proof exhau- ction 8). vith product fro- nt material. T iers and equipment : irrect sunlight. and solvent t SONAL P OSHA PEL	Dermatitis ma decreased me water fog. pressure airlin ist ventilation of om entering se ransfer to a cle and ensure ad rganic acids, c cementing lite ROTECTIC OSHA STEL	Health Flammability PPE e masks. equipment or w wers, drains, s osable steel ver lequate ventilati chlorinated com rature. DN OSHA PEL-Celling	HMIS 2 3 0 B ear suitable bil or open v ssel. on/fume ex pounds, strr pounds, strr PCL	NFPA 2 3 0 respiratory pro water course. haust hoods. ong oxidizers a CAL/OSHA Celling	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe ptective equipment. Ind isocyanates. CAL/OSHA STEL
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning un Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away fi Follow all precautions SECTION 8 - PREC	Media: ng Media: ers: DENTAL RE ons: p: f or clean up: DLING AND ing of vapor, avor rom ignition sou uitak or smoke wi tilated room or sl rom ignition sou cautionary infor CAUTIONS T Comp Tetrahydrofur	IEASURES Dry chemical Water spray c Inhalation and Oxides of carl Self-contained ELEASE ME Keep away fro Provide suffic Prevent conta Prevent prody Clean up with STORAGE oid contact witi rcces, use only hile handling. hade below 44 rcces and incom mation on con TO CONTRU- conent ran (THF)	powder, carbo r stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, spari- ient ventilation cut with skin or uct or liquids c sand or other Aluminum or h eyes, skin at electrically gro °C (110°F) an npatible mater oOL EXPOS ACGIH TLV 50 ppm	e has been sho on dioxide gas, act n chloride and s oparatus or full- iks and open fla iks and open fla ir eyes (see sec contaminated w plastic contain ind clothing. ounded handlir nd away from d away f	ishness. win to cause of foam, Halon, smoke face positive ame. in-proof exhau ith product front material. T irect sunlight. ammonia, ino s and solvent i SONAL P OSHA PEL 200 ppm	Dermatitis ma decreased me water fog. pressure airlin ist ventilation of mentering se ransfer to a cl and ensure ad rganic acids, c cementing lite ROTECTIC OSHA STEL N/E	mory and impai Health Flammability Reactivity PPE e masks. equipment or w wers, drains, s soable steel ver lequate ventilati chlorinated com rature. DN OSHA PEL-Ceiling N/E	HMIS 2 3 0 B ear suitable bil or open v ssel. on/fume ex pounds, strr PEL 200 ppm	NFPA 2 3 0 respiratory pro water course. haust hoods. ong oxidizers a CAL/OSHA Ceiling N/E	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe btective equipment. Ind isocyanates. CAL/OSHA STEL 250 ppm
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning un Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away fi Follow all precautions SECTION 8 - PREC	Media: ng Media: mg Media: ers: DENTAL RE ons: p: d for clean up: DLING AND ing of vapor, avor rom ignition sour com ignition sour acautionary infor CAUTIONS T Comp Tetrahydrofur Methyl Ethyl H Cyclohexanor	IEASURES Dry chemical Water spray c Inhalation and Oxides of carl Self-contained IEASE ME Keep away fro Provide suffic Prevent conta Prevent produ Clean up with STORAGE STORAGE STORAGE STORAGE STORAGE Original State National State Storage Contact with rces, use only while handling, hade below 44 rces and incom mation on com TO CONTR Storage States Stat	powder, carbo powder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES pom heat, sparf- ient ventilatior act or liquids c sand or other Aluminum or h eyes, skin ar electrically gro °C (110°F) an npatible mater tainer label, pi OL EXPOS ACGIH TLV 50 ppm 200 ppm 200 ppm	e has been sho on dioxide gas, act n chloride and s opparatus or full- ks and open fit n, use explosio r eyes (see sec or linert absorber plastic contain d clothing, ounded handlir d away from d rials: caustics, roduct bulletins SURE / PEF ACGIH STEL 100 ppm 300 ppm 50 ppm	ishness. wwn to cause of foam, Halon, smoke face positive face positive ame. n-proof exhau- ction 8). vith product from ith product from nt material. T ters and solvent ta CONAL P OSHA PEL 200 ppm 200 ppm 50 ppm	Dermatitis ma decreased me water fog. pressure airlin ist ventilation of om entering se ransfer to a cle and ensure ad rganic acids, of cementing lite ROTECTIO OSHA STEL N/E N/E N/E N/E	Health Flammability Reactivity PPE e masks. equipment or w wers, drains, s osable steel ver equipment or w wers, wers, s osable steel ver equipment or w wers, wers, s osable steel ver equipment or w w w w w w w w w w w w w w w w w w w	HMIS 2 3 0 B ear suitable bil or open v ssel. callon pounds, strr callon pounds, strr Callos pounds, strr 200 ppm 200 ppm 200 ppm 25 ppm	NFPA 2 3 0 respiratory pro water course. haust hoods. ong oxidizers a CAL/OSHA Ceiling N/E N/E	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe tective equipment. nd isocyanates. CAL/OSHA STEL 250 ppm 300 ppm N/E
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning up Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away fi Do not eat, c Storage: Store in vent Keep away fi Follow all pre SECTION 8 - PREC	Media: ng Media: mg Media: ers: DENTAL RE ons: p: for clean up: DLING AND ing of vapor, avc rom ignition soul trink or smoke w iliated room or sl rom ignition soul trink or smoke w iliated room or sl rom ignition soul trink or smoke w Tetrahydrofur Methyl Ethyl H Cyclohexanor Acetone	IEASURES Dry chemical Water spray c Inhalation and Oxides of carl Self-contained ELEASE ME Keep away fre Provide suffic Prevent conta Prevent prodd Clean up with STORAGE Oid contact with hade below 44 rces and incom mation on con FO CONTRI Conent an (THF) Ketone (MEK) ne	powder, carbo powder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, spari- ient ventilation act or liquids c sand or other sand or other Aluminum or Aluminum or c (110°F) an npatible mater oCLEXPOS ACGIH TLV 50 ppm 200 ppm 500 ppm	e has been sho on dioxide gas, act n chloride and s opparatus or full- ks and open fit n, use explosio r eyes (see sec plastic contain ind clothing. ounded handlir nd away from d rials: caustics, wroduct bulletins SURE / PEF ACGIH STEL 100 ppm 300 ppm	ishness. win to cause of foam, Halon, smoke face positive ame. n-proof exhau tion 8). vith product fro nt material. T irect sunlight. are and solvent of SSONAL P OSHA PEL 200 ppm 200 ppm	Dermatitis ma decreased me water fog. pressure airlin or entering se ransfer to a cl and ensure ad rganic acids, c ementing lite ROTECTIC OSHA STEL N/E N/E	Health Flammability Reactivity PPE e masks. equipment or w wers, drains, s osable steel ver- lequate ventilati chlorinated com rature. DN OSHA PEL-Ceiling N/E N/E	HMIS 2 3 0 B bill or open v ssel. on/fume ex pounds, stru PEL 200 ppm 200 ppm 200 ppm	NFPA 2 3 0 respiratory pro water course. haust hoods. ong oxidizers a CAL/OSHA Ceiling N/E N/E	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe btective equipment.
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight ECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning un Materials not to be used SecTION 7 - HANI Handling: Avoid breath Keep away fi Do not eat, o Storage: Store in vent Follow all pre SECTION 8 - PREC XPOSURE LIMITS: Engineering Controls: Monitoring:	Media: ng Media: ng Media: ers: DENTAL RE ons: p: d for clean up: DLING AND ing of vapor, avor rom ignition sour trink or smoke w trink or smoke	IEASURES Dry chemical Water spray c Inhalation and Oxides of carl Self-contained IEASE ME Keep away fro Prevent conta Prevent produ Clean up with STORAGE Doid contact with rces, use only hile handling. hade below 44 rces and incom mation on con TO CONTRO Donent ran (THF) Ketone (MEK) ne	powder, carbo pr stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, spark ient ventilatior ct with skin or uct or liquids c sand or other Aluminum or h eyes, skin ar electrically gro °C (110°F) an npatible mater anpatible mater S00 ppm 200 ppm 200 ppm 200 ppm d.	e has been sho on dioxide gas, act n chloride and s opparatus or full- ks and open fit n, use explosio r eyes (see sec or linert absorber plastic contain d clothing, ounded handlir d away from d rials: caustics, roduct bulletins SURE / PEF ACGIH STEL 100 ppm 300 ppm 50 ppm	ishness. win to cause of foam, Halon, smoke face positive ame. in-proof exhau tion 8). vith product front in atterial. The ag equipment a irrect sunlight. amonia, ino s and solvent of SONAL P OSHA PEL 200 ppm 50 ppm 1000 ppm	Dermatitis ma decreased me water fog. pressure airlin om entering se ransfer to a cl and ensure ad and ensure ad rganic acids, c cementing lite ROTECTIC OSHA STEL N/E N/E N/E N/E	Health Flammability Reactivity PPE e masks. equipment or w wers, drains, s osable steel ver equipment or w wers, wers, s osable steel ver equipment or w wers, wers, s osable steel ver equipment or w w w w w w w w w w w w w w w w w w w	HMIS 2 3 0 B ear suitable bil or open v ssel. callon pounds, strr callon pounds, strr Callos pounds, strr 200 ppm 200 ppm 200 ppm 25 ppm	NFPA 2 3 0 respiratory pro water course. haust hoods. ong oxidizers a CAL/OSHA Ceiling N/E N/E	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe tective equipment. nd isocyanates. CAL/OSHA STEL 250 ppm 300 ppm N/E
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning un Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away for Do not eat, c. Storage: Store in vent Keep away for Follow all pre SECTION 8 - PREC EXPOSURE LIMITS: Engineering Controls: Monitoring: Personal Protective Equ	Media: ng Media: mg Media: ers: DENTAL RE ons: p: for clean up: DLING AND ing of vapor, avor rom ignition soun trink or smoke w litated room or sl rom ignition soun comp Tetrahydrofur Methyl Ethyl H Cyclohexanor Acetone Use local exh Maintain brea uignent (PPE):	IEASURES Dry chemical Water spray c Inhalation and Oxides of carl Self-containeer ELEASE ME Keep away fre Provide suffic Prevent conta Prevent conta Prevent produ Clean up with STORAGE Oid contact with hade below 44 rcces and incom mation on con FO CONTRU Conent an (THF) Ketone (MEK) ne	powder, carbo powder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, spari- ient ventilation act or liquids c sand or other sand or other a sand or other sand or other electrically gro °C (110°F) an npatible mater tainer label, pi OL EXPOS ACGIH TLV 50 ppm 200 ppm 500 ppm 500 ppm d.	e has been sho on dioxide gas, act n chloride and s oparatus or full- ks and open fla n, use explosio r eyes (see sec contaminated w r inert absorbei plastic contain nd clothing. ounded handlir nd away from d rials: caustics, roduct bulletins SURE / PEF ACGIH STEL 100 ppm 300 ppm 750 ppm	ishness. wwn to cause of foam, Halon, smoke face positive ame. nproof exhau- tith product fromt material. The retrosecond for the second for the sec	Dermatitis ma decreased me water fog. pressure airlin ist ventilation of mentering se ransfer to a cle and ensure ad rganic acids, of cementing lite ROTECTIC OSHA STEL N/E N/E N/E N/E N/E N/E S.	mory and impai Health Flammability Reactivity PPE e masks. equipment or w wers, drains, s osable steel vest equipment or w wers, drains, s osable steel vest lequate ventilati chlorinated com rature. DN SHA PEL-Ceiling N/E N/E N/E N/E	HMIS 2 3 0 B ear suitable bil or open v ssel. on/fume ex pounds, str Petu 200 ppm 200 ppm 25 ppm 500 ppm	NFPA 2 3 0 respiratory pro water course. haust hoods. ong oxidizers a CAL/OSHA N/E N/E N/E 3000 ppm	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe stective equipment. Ind isocyanates. CAL/OSHA STEL 250 ppm 300 ppm N/E 750 ppm
Suitable Extinguishing Unsuitable Extinguishin Exposure Hazards: Combustion Products: Protection for Firefight SECTION 6 - ACCI Personal precautions: Environmental Precauti Methods for Cleaning un Materials not to be used SECTION 7 - HANI Handling: Avoid breath Keep away fi Follow all precautions SECTION 8 - PREC	Media: ng Media: mg Media: ers: DENTAL RE ons: p: d for clean up: DLING AND ing of vapor, avo rom ignition sour trink or smoke w trink or smoke	IEASURES Dry chemical Water spray C Inhalation and Oxides of carl Self-contained IEASE ME Keep away fro Previde suffic Prevent conta Prevent produ- Clean up with STORAGE oid contact with rores, use only while handling. Nade below 44 rores and incom roation on con FO CONTRY Conent and (THF) Ketone (MEK) ne	powder, carbo powder, carbo or stream. d dermal conta bon, hydrogen d breathing ap EASURES om heat, sparf- ient ventilatior act with skin or act of light skin or act with skin or act of light skin of light skin or act of light skin or	e has been sho on dioxide gas, act n chloride and s oparatus or full- ks and open fit n, use explosio r eyes (see see plastic contain and clothing. ounded handlir nd clothing. ounded handlir d away from d rials: caustics, roduct bulletins SURE / PEF ACGIH STEL 100 ppm 300 ppm 50 ppm 750 ppm trations below of of chemical go ure.	ishness. wwn to cause of foam, Halon, smoke face positive ame. on-proof exhau- tion 8). with product fro- nt material. The rest sunlight. ammonia, inous s and solvent to RSONAL P OSHA PEL 200 ppm 50 ppm 1000 ppm 50 ppm 1000 ppm	Dermatitis ma decreased me water fog. pressure airlin ist ventilation of om entering se ransfer to a cle and ensure ad rganic acids, of comenting lite ROTECTIO OSHA STEL N/E N/E N/E N/E S. ield, safety gla	Health Flammability Reactivity PPE e masks. equipment or w wers, drains, s osable steel ver equipment or w wers, wers, s osable steel ver equipment or w wers, wers, s osable steel ver equipment or w w w w w w w w w w w w w w w w w w w	HMIS 2 3 0 B ear suitable bil or open visel. callogen visel. callo	NFPA 2 3 0 respiratory pro water course. haust hoods. ong oxidizers a CAL/OSHA Ceiling N/E N/E N/E 3000 ppm	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe stective equipment. Ind isocyanates. CAL/OSHA STEL 250 ppm 300 ppm N/E 750 ppm

Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adnesive application practices and procedures are used for making structural bonds. Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment. Respiratory Protection:



GHS SAFETY DATA SHEET

WELD-ON® 711[™] Low VOC PVC Plastic Pipe Cements

Date Revised: JUN 2018 Supersedes: JUL 2015

Appearance:		Gray, heavy s		-			
Odor:		Ketone	June 1 and 1			Odor Threshold:	0.88 ppm (Cyclohexanone)
pH:		Not Applicable	e				
Melting/Freezing Poir	nt:				g component: THF	Boiling Range:	56°C (133°F) to 156°C (313°F)
Boiling Point:					onent: Acetone	Evaporation Rate:	> 1.0 (BUAC = 1)
Flash Point:		-20°C (-4°F) 1		Acetone		Flammability:	Category 2
Specific Gravity: Solubility:		0.966 @23°C Solvent portio		ater Resin n	ortion separates out.	Flammability Limits:	LEL: 1.1% based on Cyclohexanone UEL: 12.8% based on Acetone
Partition Coefficient	n-octanol/wate		Not Available		onion separates out.	Vapor Pressure:	190 mm Hg @ 20°C (68°F) Acetone
Auto-ignition Temper		321°C (610°F				Vapor Density:	>2.0 (Air = 1)
Decomposition Temp	erature:	Not Applicable	e			Other Data: Viscosity:	Heavy bodied
VOC Content:		When applied	as directed, p	per SCAQMD I	Rule 1168, Test Method 31	6A, VOC content is: < 510 g/	I.
SECTION 10 - STAR	BILITY AND	REACTIV					
Stability:			Stable				
Hazardous decompos	sition product	s:					hydrogen chloride and smoke.
Conditions to avoid: Incompatible Material	le:				ks, open flame and other ig bases, amines, ammonia	inition sources.	
SECTION 11 - TOXI				ong acius anu	bases, amines, aminoria		
		LD50	ATION		LC50		Tannak On
oxicity:			/ka (rot)			3 hrs. 21,000 mg/m ³ (rat)	Target Organs
Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK)	Oral: 2842 mg		mal: 6480 mg/		3 hrs. 21,000 mg/m ⁻ (rat) 3 hrs. 23,500 mg/m ³ (rat)	STOT SE3 STOT SE3
Cyclohexanone	1			mal: 9480 mg/kg		4 hrs. 8,000 PPM (rat)	0101 023
Acetone		Oral: 5800 mg		mai. 546 mg/kg		50,100 mg/m ³ (rat)	STOT SE3
Reproductive Effects	Terato	genicity	Mutac	genicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established		tablished		tablished	Not Established	Not Established	Not Established
ECTION 12 - ECO Ecotoxicity: Mobility: Degradability:	None Known	e, emission of v		c compounds (VOC's) to the air takes pla	ce, typically at a rate of ≤ 510	0 g/l.
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS	None Known In normal use Not readily bi Minimal to no TE DISPO:	e, emission of v odegradable one. SAL CONSI	olatile organio		VOC's) to the air takes pla	ce, typically at a rate of \leq 510	0 g/l.
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rep	None Known In normal use Not readily bi Minimal to no TE DISPO gulations. Cor	e, emission of v odegradable one. SAL CONSI isult disposal e	volatile organic DERATIO		VOC's) to the air takes pla	ce, typically at a rate of \leq 510	0 g/l.
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national re- SECTION 14 - TRAN	None Known In normal use Not readily bi Minimal to no TE DISPO gulations. Cor	e, emission of v odegradable one. SAL CONSI isult disposal e FORMATIO	volatile organic DERATIO		VOC's) to the air takes pla	ce, typically at a rate of \leq 510	0 g/l.
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS follow local and national re- SECTION 14 - TRAN Proper Shipping Name:	None Known In normal use Not readily bi Minimal to no TE DISPO gulations. Cor	e, emission of v odegradable nne. SAL CONSI asult disposal e FORMATIO Adhesives	volatile organic DERATIO				0 g/l.
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS follow local and national res SECTION 14 - TRAN Proper Shipping Name: Hazard Class:	None Known In normal use Not readily bi Minimal to no TE DISPO gulations. Cor	e, emission of v odegradable one. SAL CONSI asult disposal e FORMATIC Adhesives 3	volatile organic DERATIO	NS	EXCEP	TION for Ground Shipping	-
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS ollow local and national re- SECTION 14 - TRAN Proper Shipping Name:	None Known In normal use Not readily bi Minimal to no TE DISPO gulations. Cor	e, emission of v odegradable nne. SAL CONSI asult disposal e FORMATIO Adhesives	volatile organic DERATIO	NS DOT Limited	EXCEP Quantity: Up to 5L per inr	TION for Ground Shipping rer packaging, 30 kg gross w	-
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS ollow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group:	None Known In normal use Not readily bi Minimal to no TE DISPO gulations. Cor	e, emission of v odegradable me. SAL CONSI issult disposal e FORMATIC Adhesives 3 None UN 1133 PG II	rolatile organic DERATIO xpert.	NS DOT Limited	EXCEP Quantity: Up to 5L per inr ommodity: Depending on	TION for Ground Shipping Ter packaging, 30 kg gross w packaging, these quantities r	eight per package.
Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required:	None Known In normal use Not readily bi Minimal to no TE DISPO gulations. Cor	e, emission of v odegradable me. SAL CONSI issult disposal e FORMATIC Adhesives 3 None UN 1133 PG II Class 3 Flamr	rolatile organic DERATIO xpert.	NS DOT Limited	EXCEP Quantity: Up to 5L per inr ommodity: Depending on T	TION for Ground Shipping ter packaging, 30 kg gross w packaging, these quantities r DG INFORMATION	eight per package. nay qualify under DOT as "ORM-D" .
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS ollow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group:	None Known In normal use Not readily bi Minimal to no TE DISPO gulations. Cor	e, emission of v odegradable me. SAL CONSI issult disposal e FORMATIC Adhesives 3 None UN 1133 PG II	rolatile organic DERATIO xpert.	NS DOT Limited	EXCEP Quantity: Up to 5L per inr ommodity: Depending on TDG CLASS:	TION for Ground Shipping er packaging, 30 kg gross w packaging, these quantities r DG INFORMATION FLAMMABLI	eight per package. nay qualify under DOT as "ORM-D" . E LIQUID 3
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS ollow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required:	None Known In normal use Not readily bi Minimal to no TE DISPO gulations. Cor	e, emission of v odegradable me. SAL CONSI issult disposal e FORMATIC Adhesives 3 None UN 1133 PG II Class 3 Flamr	rolatile organic DERATIO xpert.	NS DOT Limited	EXCEP Quantity: Up to 5L per inr ommodity: Depending on TDG CLASS: SHIPPING NAME:	TION for Ground Shipping Ier packaging, 30 kg gross w packaging, these quantities r DG INFORMATION FLAMMABLI ADHESIVES	eight per package. nay qualify under DOT as "ORM-D" . E LIQUID 3
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS Collow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant:	None Known In normal use Not readily bi Minimal to no TE DISPOS gulations. Cor ISPORT IN	e, emission of v odegradable ne. SAL CONSI isult disposal e FORMATIC Adhesives 3 None UN 1133 PG II Class 3 Flamr NO	rolatile organic DERATIOI xpert. N N	NS DOT Limited	EXCEP Quantity: Up to 5L per inr ommodity: Depending on TDG CLASS:	TION for Ground Shipping Ier packaging, 30 kg gross w packaging, these quantities r DG INFORMATION FLAMMABLI ADHESIVES	eight per package. nay qualify under DOT as "ORM-D" . E LIQUID 3
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rest SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols:	None Known In normal use Not readily bi Minimal to no TE DISPOS gulations. Cor ISPORT IN	e, emission of v odegradable ne. SAL CONSI isult disposal e FORMATIC Adhesives 3 None UN 1133 PG II Class 3 Flamr NO	rolatile organic DERATIOI xpert. N mable Liquid TON	NS DOT Limited Consumer C	EXCEP Quantity: Up to 5L per inr ommodity: Depending on TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING I Ingredient Listings: USA	TION for Ground Shipping Ier packaging, 30 kg gross w packaging, these quantities r DG INFORMATION FLAMMABLI ADHESIVES	eight per package. nay qualify under DOT as "ORM-D" . E LIQUID 3 5 II ada DSL, Australia
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS SECTION 13 - WAS SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label II	None Known In normal use Not readily bi Minimal to no TE DISPOS gulations. Cor ISPORT IN ULATORY Information: R11: Highly fla R20-Harmful I	e, emission of v odegradable ne. SAL CONSI asult disposal e FORMATIC Adhesives 3 None UN 1133 PG II Class 3 Flamm NO INFORMAT Highly Flamm F, Xi ammable. 9 inhalation.	nable Liquid	DOT Limited Consumer C	EXCEP Quantity: Up to 5L per inr ommodity: Depending on TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING (Ingredient Listings: USA AICS, #	TION for Ground Shipping ler packaging, 30 kg gross w packaging, these quantities r DG INFORMATION FLAMMABLI ADHESIVES 3ROUP: UN 1133, PC TSCA, Europe EINECS, Car forea ECL/TCCL, Japan MITI ay cause skin dryness or crack	eight per package. nay qualify under DOT as "ORM-D" . E LIQUID 3 3 II add DSL, Australia (ENCS)
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS ollow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols: Risk Phrases:	None Known In normal use Not readily bi Minimal to no TE DISPOS gulations. Cor ISPORT IN ISPORT IN ISPORT IN ISPORT IN R11: Highly fil R20-Harmful R36/37: Irritati	e, emission of v odegradable nne. SAL CONSI sult disposal e FORMATIC Adhesives 3 None UN 1133 PG II Class 3 Flamm NO INFORMAT Highly Flamm F, Xi ammable. y inhalation. ng to eyes and i	rolatile organic IDERATIOI xpert. IN mable Liquid TON able, Irritant, (respiratory syst	DOT Limited Consumer C Carc. Cat. 2 em.	EXCEP Quantity: Up to 5L per inr ommodity: Depending on TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING I Ingredient Listings: USA AICS, k R66: Repeated exposure m R67: Vapors may cause dro	TION for Ground Shipping ter packaging, 30 kg gross w packaging, these quantities r DG INFORMATION FLAMMABLI ADHESIVES GROUP: UN 1133, PC TSCA, Europe EINECS, Car forea ECL/TCCL, Japan MITI ay cause skin dryness or crack wwiness and dizziness	eight per package. nay qualify under DOT as "ORM-D" . E LIQUID 3 5 3 II nada DSL, Australia I (ENCS) ing
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS ollow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols:	None Known In normal use Not readily bi Minimal to no TE DISPOS gulations. Cor ISPORT IN ISPORT IN ULATORY nformation: R11: Highly fia R36/37: Irritati S9: Keep cont	e, emission of v odegradable one. SAL CONSI isult disposal e FORMATIC Adhesives 3 None UN 1133 PG II Class 3 Flamm NO INFORMAT Highly Flamm F, Xi ammable. y inhalation. ng to eyes and 1 ainer in a well-v	rolatile organic DERATIOI xpert. N mable Liquid TON able, Irritant, G respiratory syst entilated place.	NS DOT Limited Consumer C Carc. Cat. 2 em.	EXCEP Quantity: Up to 5L per inr ommodity: Depending on TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING (Ingredient Listings: USA AICS, k R66: Repeated exposure m R67: Vapors may cause dr S26: In case of contact with	TION for Ground Shipping ter packaging, 30 kg gross w packaging, these quantities r DG INFORMATION FLAMWABLI ADHESIVES GROUP: UN 1133, PC TSCA, Europe EINECS, Car forea ECL/TCCL, Japan MITI ay cause skin dryness or crack wisiness and dizziness teyes, rinse immediately with p	eight per package. nay qualify under DOT as "ORM-D" . E LIQUID 3 3 II ada DSL, Australia (ENCS) ing
Ecotoxicity: Mobility: Degradability: Bioaccumulation: ECTION 13 - WAS Ollow local and national re- ECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: ECTION 15 - REG Precautionary Label In Symbols: Risk Phrases:	None Known In normal use Not readily bi Minimal to no TE DISPOS gulations. Cor ISPORT IN ULATORY nformation: R11: Highly fit R20-Harmful t R36/37: Irritati S9: Keep cont S16: Keep aw	e, emission of v odegradable nne. SAL CONSI sult disposal e FORMATIC Adhesives 3 None UN 1133 PG II Class 3 Flamm NO INFORMAT Highly Flamm F, Xi ammable. y inhalation. ng to eyes and i	rolatile organic DERATIOI xpert. N mable Liquid TON able, Irritant, G respiratory syst entilated place.	NS DOT Limited Consumer C Carc. Cat. 2 em.	EXCEP Quantity: Up to 5L per inr ommodity: Depending on TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING I Ingredient Listings: USA AICS, P R66: Repeated exposure R67: Vapors may cause dro \$26: In case of contact with \$33: Take precautionary m	TION for Ground Shipping ter packaging, 30 kg gross w packaging, these quantities r DG INFORMATION FLAMMABLI ADHESIVES GROUP: UN 1133, PC TSCA, Europe EINECS, Car forea ECL/TCCL, Japan MITI ay cause skin dryness or crack wwiness and dizziness	eight per package. may qualify under DOT as "ORM-D" . E LIQUID 3 3 II nada DSL, Australia (ENCS) ing elenty of water and seek medical advice. es.
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS ollow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols: Risk Phrases: Safety Phrases:	None Known In normal use Not readily bi Minimal to no TE DISPOS gulations. Cor ISPORT IN ULATORY INFORMATION ISPORT IN R11: Highly fit R36/37: Irritati S9: Keep aw S16: Keep aw S25: Avoid co	e, emission of v odegradable sould disposal e FORMATIC Adhesives 3 None UN 1133 PG II Class 3 Flamm NO INFORMAT Highly Flamm F, Xi ammable. by inhalation. ng to eyes and 1 aianer in a well-v ay from sources ntact with eyes.	rolatile organic DERATIOI xpert. N mable Liquid TON able, Irritant, G respiratory syst entilated place.	NS DOT Limited Consumer C Carc. Cat. 2 em.	EXCEP Quantity: Up to 5L per inr ommodity: Depending on TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING I Ingredient Listings: USA AICS, P R66: Repeated exposure R67: Vapors may cause dro \$26: In case of contact with \$33: Take precautionary m	TION for Ground Shipping ter packaging, 30 kg gross w packaging, these quantities r DG INFORMATION FLAMMABLI ADHESIVES SROUP: UN 1133, PC TSCA, Europe EINECS, Car forea ECL/TCCL, Japan MITI ay cause skin dryness or crack wsiness and dizziness te eyes, rinse immediately with p easures against static discharg	eight per package. may qualify under DOT as "ORM-D" . E LIQUID 3 3 II nada DSL, Australia (ENCS) ing elenty of water and seek medical advice. es.
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS ollow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols: Risk Phrases:	None Known In normal use Not readily bi Minimal to no TE DISPOS gulations. Cor ISPORT IN ISPORT I	e, emission of v odegradable sould disposal e FORMATIC Adhesives 3 None UN 1133 PG II Class 3 Flamm NO INFORMAT Highly Flamm F, Xi ammable. by inhalation. ng to eyes and 1 aianer in a well-v ay from sources ntact with eyes.	rolatile organic DERATIOI xpert. N mable Liquid TON able, Irritant, (respiratory syst entilated place. of ignition - No	NS DOT Limited Consumer C Carc. Cat. 2 em. o smoking.	EXCEP Quantity: Up to 5L per inr ommodity: Depending on TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING I Ingredient Listings: USA AICS, P R66: Repeated exposure R67: Vapors may cause dro \$26: In case of contact with \$33: Take precautionary m	TION for Ground Shipping ter packaging, 30 kg gross w packaging, these quantities r DG INFORMATION FLAMMABLI ADHESIVES 3ROUP: UN 1133, PC TSCA, Europe EINECS, Car forea ECL/TCCL, Japan MITI ay cause skin dryness or crack weiness and dizziness te yes, rinse immediately with p easures against static dischargr dical advise immediately and s All ingredients are complia	eight per package. may qualify under DOT as "ORM-D" . E LIQUID 3 3 II nada DSL, Australia (ENCS) ing elenty of water and seek medical advice. es.

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

There was a PDF conversion failure for -

Product Name: FASTRAC WATER RESISTANT BLOX RODENTICIDE **CAS Number: Manufacturer:** Bell Laboratories, Inc. **SDS Date:** 5/1/2017

To complete your binder, try printing the SDS manually from

https://jjkeller.quickbase.com/up/bpqzfauue/a/r367493/e27

and add to your binder. We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. In order to correct it, download the file using the link. Delete the existing file in your chemical record. Unsecure the document and add to your chemical manually

MONSANTO COMPANY

Safety Data Sheet Commercial Product

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

Roundup PRO® Herbicide

1.1.1. Chemical name Not applicable.

1.1.2. Synonyms

None.

- **1.1.3. EPA Reg. No.** 524-475
- 1.2. Product use

Herbicide

1.3. Company

MONSANTO COMPANY, 800 N. Lindbergh Blvd., St. Louis, MO, 63167 Telephone: 800-332-3111, Fax: 314-694-5557 E-mail: safety.datasheet@monsanto.com

1.4. Emergency numbers

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC - Day or Night: 1-800-424-9300 toll free in the continental U.S., Puerto Rico, Canada, or Virgin Islands. For calls originating elsewhere: 703-527-3887 (collect calls accepted). FOR MEDICAL EMERGENCY - Day or Night: +1 (314) 694-4000 (collect calls accepted).

2. HAZARDS IDENTIFICATION

2.1. Classification

OSHA Hazard Communication Standard, 29 CFR 1910.1200 (2012) Acute toxicity, inhalation - Category 4

2.2. Label elements

2.2.1. Signal word

WARNING!

2.2.2. Hazard pictogram/pictograms



2.2.3. Hazard statement/statements

Harmful if inhaled.

2.2.4. Precautionary statement/statements

Avoid breathing mist, vapours or spray. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

2.3. Appearance and odour (colour/form/odour)

Clear-Amber /Liquid / Sweet

2.4. OSHA Status

This product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Refer to section 11 for toxicological and section 12 for environmental information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient

• • •

Isopropylamine salt of N-(phosphonomethyl)glycine; {Isopropylamine salt of glyphosate}

Composition		
COMPONENT	CAS No.	% by weight (approximate)
Isopropylamine salt of glyphosate	38641-94-0	41
Other ingredients		59

Trade secret composition.

4. FIRST AID MEASURES

Use personal protection recommended in section 8.

4.1. Description of first aid measures

- **4.1.1. Eye contact:** If in eyes, hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
- **4.1.2. Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- **4.1.3. Inhalation:** If inhaled, move person to fresh air. If person is not breathing, call emergency number or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- **4.1.4. Ingestion:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison center or doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

- 4.2.1. Eye contact, short term: May cause temporary eye irritation.
- **4.2.2. Skin contact, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.3. Inhalation, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.4. Single ingestion:** Not expected to produce significant adverse effects when recommended use instructions are followed.

4.3. Indication of any immediate medical attention and special treatment needed

- **4.3.1.** Advice to doctors: This product is not an inhibitor of cholinesterase.
- 4.3.2. Antidote: Treatment with atropine and oximes is not indicated.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

5.1.1. Recommended: Water, foam, dry chemical, carbon dioxide (CO2)

5.2. Special hazards

5.2.1. Unusual fire and explosion hazards

Minimise use of water to prevent environmental contamination. Environmental precautions: see section 6.

- **5.2.2. Hazardous products of combustion** Carbon monoxide (CO), phosphorus oxides (PxOy), nitrogen oxides (NOx)
- **5.3. Fire fighting equipment:** Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

5.4. Flash point

Does not flash.

6. ACCIDENTAL RELEASE MEASURES

6.1. Environmental precautions

SMALL QUANTITIES: Low environmental hazard. LARGE QUANTITIES: Minimise spread. Keep out of drains, sewers, ditches and water ways.

6.2. Methods for cleaning up

SMALL QUANTITIES:Flush spill area with water.LARGE QUANTITIES:Absorb in earth, sand or absorbent material.Dig up heavily contaminated soil.Collect in containers for disposal.Refer to section 7 for types of containers.Flush residues with small quantities of water.Minimise use of water to prevent environmental contamination.

Refer to section 13 for disposal of spilled material. Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.

7.1. Precautions for safe handling

Avoid contact with eyes. When using do not eat, drink or smoke. Wash hands thoroughly after handling or contact. Wash contaminated clothing before re-use. Thoroughly clean equipment after use. Do not contaminate drains, sewers and water ways when disposing of equipment rinse water. Refer to section 13 of the safety data sheet for disposal of rinse water.

7.2. Conditions for safe storage

Minimum storage temperature: -15 °C Maximum storage temperature: 50 °C **Compatible materials for storage**: stainless steel, fibreglass, plastic, glass lining **Incompatible materials for storage**: galvanised steel, unlined mild steel, see section 10. Keep out of reach of children. Keep away from food, drink and animal feed. Keep only in the original container. Keep container tightly closed in a cool, well-ventilated place. Partial crystallization may occur on prolonged storage below the minimum storage temperature. If frozen, place in warm room and shake frequently to put back into solution. Minimum shelf life: 5 years.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Airborne exposure limits

Components	Exposure Guidelines
Isopropylamine salt of glyphosate	No specific occupational exposure limit has been established.
Other ingredients	No specific occupational exposure limit has been established.

8.2. Engineering controls: Provide local exhaust ventilation.

8.3. Recommendations for personal protective equipment

- **8.3.1. Eye protection:** If there is significant potential for contact: Wear chemical goggles.
- **8.3.2. Skin protection:** No special requirement when used as recommended. If repeated or prolonged contact: Wear chemical resistant gloves. Applicators and other handlers must wear: Wear long sleeved shirt, long pants and shoes with socks.

8.3.3. Respiratory protection: No special requirement when used as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Colour/colour range:	Clear - Amber
Odour:	Sweet
Form:	Liquid
Physical form changes (melting, boi	ling, etc.):
Melting point:	Not applicable.
Boiling point:	No data.
Flash point:	Does not flash.
Explosive properties:	No explosive properties
Auto ignition temperature:	452 °C
Self-accelerating decomposition temperature (SADT):	No data.
Oxidizing properties:	No data.

Specific gravity:	1.169 @ 20 °C / 15.6 °C
Vapour pressure:	25 mmHg 24 °C
Vapour density:	Not applicable.
Evaporation rate:	No data.
Dynamic viscosity:	73.2 cP
Kinematic viscosity:	62.47 cSt @ 20 °C
Density:	1.17 g/cm3 @ 20 °C
Solubility:	Water: Completely miscible.
pH:	4.4 - 5.0 @ 80 g/l
Partition coefficient:	log Pow: < -3.2 @ 25 °C (glyphosate)

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

10.2. Stability

Stable under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

10.4. Incompatible materials

galvanised steel;unlined mild steel;see section 10.; Compatible materials for storage: see section 7.2.

10.5. Hazardous decomposition

Thermal decomposition: Hazardous products of combustion: see section 5.

11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and other health professionals.

Likely routes of exposure: Skin contact, eye contact

Potential health effects

Eye contact, short term: May cause temporary eye irritation.

Skin contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Single ingestion: Not expected to produce significant adverse effects when recommended use instructions are followed.

Data obtained on product and components are summarized below.

Acute oral toxicity

Rat, LD50: 5,108 mg/kg body weight Practically non-toxic.

Acute dermal toxicity

Rat, LD50 (limit test): > 5,000 mg/kg body weight

Practically non-toxic. No mortality.

Acute inhalation toxicity

Rat, LC50, 4 hours, aerosol: 2.9 mg/L Other effects: weight loss, breathing difficulty Practically non-toxic. Skin irritation Rabbit, 6 animals, OECD 404 test: Days to heal: 3 Primary Irritation Index (PII): 0.5/8.0 Essentially non irritating. Eye irritation Rabbit, 6 animals, OECD 405 test: Days to heal: 3 Slight irritation. Skin sensitization Guinea pig, 3-induction Buehler test: Positive incidence: 0 %

N-(phosphonomethyl)glycine; { glyphosate acid}

Genotoxicity

Not genotoxic.

Carcinogenicity

Not carcinogenic in rats or mice. Listed as Category 2A by the International Agency for Research on Cancer (IARC) but our expert opinion is that classification as a carcinogen is not warranted.

Reproductive/Developmental Toxicity

Developmental effects in rats and rabbits only in the presence of significant maternal toxicity. Reproductive effects in rats only in the presence of significant maternal toxicity.

12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists.

 Aquatic toxicity, fish Rainbow trout (Oncorhynchus mykiss): Acute toxicity, 96 hours, static, LC50: 5.4 mg/L Moderately toxic.
 Aquatic toxicity, invertebrates Water flea (Daphnia magna): Acute toxicity, 48 hours2, static, EC50: 11 mg/L Slightly toxic.
 Arthropod toxicity Honey bee (Apis mellifera): Oral/contact, 48 hours, LD50: > 100 µg/bee Practically non-toxic.

Similar formulation

Aquatic toxicity, algae/aquatic plants

Green algae (Selenastrum capricornutum): Acute toxicity, 72 hours, static, EbC50 (biomass): 12.4 mg/L Slightly toxic. Green algae (Selenastrum capricornutum):

Acute toxicity, 72 hours, static, NOEC: 6.3 mg/L

Similar formulation

Soil organism toxicity, microorganisms

Nitrogen and carbon transformation test: 30 L/ha, 28 days: Less than 25% effect on nitrogen or carbon transformation processes in soil.

N-(phosphonomethyl)glycine; { glyphosate acid }

Avian toxicity Bobwhite quail (Colinus virginianus): Acute oral toxicity, single dose, LD50: > 3,851 mg/kg body weight Practically non-toxic. Bioaccumulation Bluegill sunfish (Lepomis macrochirus): Whole fish: BCF: < 1</td> No significant bioaccumulation is expected. Dissipation Soil, field: Half life: 2 - 174 days Koc: 884 - 60,000 L/kg Adsorbs strongly to soil. Water, aerobic: Half life: < 7 days</td>

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product

Excess product may be disposed of by agricultural use according to label instructions. Keep out of drains, sewers, ditches and water ways. Recycle if appropriate facilities/equipment available. Burn in proper incinerator. Follow all local/regional/national/international regulations.

13.1.2. Container

See the individual container label for disposal information. Emptied containers retain vapour and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Empty packaging completely. Triple or pressure rinse empty containers. Do NOT contaminate water when disposing of rinse waters. Store for collection by approved waste disposal service. Ensure packaging cannot be reused. Do NOT re-use containers. Recycle if appropriate facilities/equipment available. Follow all local/regional/national/international regulations.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

14.1. US Dept. of Transportation (DOT) Hazardous Materials Regulations (49 CFR Parts 105-180)

 <u> </u>	_/ (= = = = = = = = = = = = = = = =
Proper Shipping Name	Not regulated for domestic ground transportation. ()
(Technical Name if	
required):	

14.2. IMDG Code

Proper Shipping Name	Not regulated for transport under IMO Regulations ()
(Technical Name if	
required):	

14.3. IATA/ICAO

Proper Shipping Name	Not regulated for transport under IATA/ICAO Regulations ()
(Technical Name if required):	

15. REGULATORY INFORMATION

15.1. Environmental Protection Agency

15.1.1. TSCA Inventory

All components are on the US EPA's TSCA Inventory

15.1.2. SARA Title III Rules

Section 311/312 Hazard Categories: Immediate Section 302 Extremely Hazardous Substances: Not applicable. Section 313 Toxic Chemical(s): Not applicable.

15.1.3. CERCLA Reportable quantity

Not applicable.

15.1.4. Federal Insecticide, Fungicide, Rodenticide Act (FIFRA)

This chemical is a pesticide product regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION! CAUSES EYE IRRITATION

Acute oral toxicity: FIFRA category IV. Acute dermal toxicity: FIFRA category IV. Acute inhalation toxicity: FIFRA category IV. Skin irritation: FIFRA category IV. Eye irritation: FIFRA category III.

16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data. Follow all local/regional/national/international regulations. Please consult supplier if further information is needed. In this document the British spelling was applied. || Significant changes versus previous edition. Health 1

Flammability 1

Additional Markings

NFPA 0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard

Full denomination of most frequently used acronyms. BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), LOEC (Lowest Observed Effect Concentration), LOEL (Lowest Observed Effect Level), MEL (Maximum Exposure limit), MTD (Maximum Tolerated Dose), NOAEC (No Observed Adverse Effect Concentration), NOAEL (No Observed Adverse Effect Level), NOEC (No Observed Effect Concentration), NOEL (No Observed Effect Level), OEL (Occupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), STOT SE (Specific Target Organ Toxicity, Single Exposure), STOT RE (Specific Target Organ Toxicity, Repeated Exposure), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)

Instability

1

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, MONSANTO Company or any of its subsidiaries makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will MONSANTO Company or any of its subsidiaries be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR TO THE PRODUCT TO WHICH INFORMATION REFERS.

00000000411

End of document

There was a problem getting the SDS for -

Product Name: GardenTech Sevin Insect Killer Ready To Spray CAS Number: Manufacturer: TechPac, LLC. SDS Date: 2/15/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

SAFETY DATA SHEET

Issuing Date 25-Apr-2014

Revision Date 25-Apr-2014

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier			
Product Name	"Sparkle" Green Formula Glass Cleaner		
Other means of identification			
Synonyms	None		
Recommended use of the chemical and restrictions on use			
Recommended Use	Window/surface cleaner		
Uses advised against	No information available		
Details of the supplier of the safety data sheet			
Supplier Address A.J. Funk and Co 1471 Timber Drive, Elgin, Illinois, 6012 US Phone:8477416760 Fax:8477416767 Contact: Contact Phone:8477416760 Emergency Phone: 8772253865	23		
Emergency telephone number			
Company Emergency Phone Number	8772253865		
2. HAZARDS IDENTIFICATION			
<u>Classification</u> This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). <u>GHS Label elements, including precautionary statements</u>			
GIS Laber elements, including prec	autionally statements		

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Green

Physical State Liquid

Odor Pleasant

Precautionary Statements - Prevention Obtain special instructions before use

Precautionary Statements - Response None

Precautionary Statements - Storage None

Precautionary Statements - Disposal None

Hazards not otherwise classified (HNOC)

Not Applicable

<u>Unknown Toxicity</u> 0% of the mixture consists of ingredient(s) of unknown toxicity

Other information

May cause slight eye irritation Prolonged or repeated contact may dry skin and cause irritation.

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret	
Alcohols, C9-11, ethoxylated	68439-46-3	3 - 7	*	

* The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.	
Skin Contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.	
Inhalation	Move to fresh air. If symptoms persist, call a physician.	
Ingestion	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.	
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination	
Most important symptoms and effects, both acute and delayed		

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

No information available

Hazardous Combustion Products Carbon oxides.

Explosion Data Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge No

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid contact with eyes.	
Environmental precautions		
Environmental Precautions	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containment and cleaning up		
Methods for Containment	Prevent further leakage or spillage if safe to do so.	
Methods for Cleaning Up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.	

7. HANDLING AND STORAGE Precautions for safe handling Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Conditions for safe storage, including any incompatibilities Storage Keep container tightly closed. **Incompatible Products** None known based on information supplied. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION **Control parameters Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies Appropriate engineering controls **Engineering Measures** Showers Eyewash stations Ventilation systems Individual protection measures, such as personal protective equipment **Eye/Face Protection** No special protective equipment required. **Skin and Body Protection** No special protective equipment required. **Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required **Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Appearance Color	Liquid Green No information available	Odor Odor Threshold	Pleasant No information available
Property	Values	Remarks/ Method	
pH	12.5	None known	
Melting/freezing point	No data available	None known	
Boiling point / boiling range	100 °C / 212 °F	None known	
Flash Point	> 93 C / > 200 F	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			

Upper flammability limit	No data available
Lower flammability limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Specific Gravity	No data available
Water Solubility	Soluble in water
Solubility in other solvents	No data available
Partition coefficient: n-octanol/wate	rNo data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available
Other Information	
Softening Point	No data available
VOC Content (%)	No data available

None known None known

10. STABILITY AND REACTIVITY

No data available

No data available

Reactivity

Particle Size

Particle Size Distribution

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Eye Contact	May cause irritation.

Skin Contact	Prolonged or repeated contact may dry skin and cause irritation.
Ingestion	Not an expected route of exposure Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Component Information	
Information on toxicological effects	<u>5</u>
Symptoms	No information available.
Delayed and immediate effects as v	well as chronic effects from short and long-term exposure
Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Reproductive Toxicity	No information available
STOT - single exposure	No information available.
STOT - repeated exposure Chronic Toxicity Target Organ Effects	No information available. No known effect based on information supplied. Eyes. Respiratory system. Skin.
Aspiration Hazard	No information available.
Numerical measures of toxicity - P	roduct Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 5,000 mg/kg (ATE)

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements
Contaminated Packaging	Dispose of in accordance with local regulations.

California Hazardous Waste Codes 561

14. TRANSPORT INFORMATION

<u>DOT</u>	NOT REGULATED
TDG	Not regulated
<u>MEX</u>	Not regulated
ICAO	Not regulated
IATA_	Not regulated
IMDG/IMO	Not regulated
RID	Not regulated
ADR	Not regulated
ADN_	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard

No

Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

International Regulations

Canada WHMIS Hazard Class Non-controlled

16. OTHER INFORMATION				
<u>NFPA</u>	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X
Prepared	ΙВу	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501		
Revision	Date	25-Apr-2014		
Revision	Note	No information available		

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet



MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT INFORMATION

PRODUCT:	Sikaflex [®] 2C N	IS EZ MIX P	ART B R	REVISION DATE: Fet	oruary 1 st , 2015
USAGE: TWO COMPONENT URETHANE BASED SEALANT					
		SIKA CANADA IN			
		601, avenue Delm Pointe Claire, QC H9R 4A9			
EMERGENCY	TELEPHONE N	UMBER: CANUTE	C (collect) (613) 990	6-6666	
TDG CLASSIFICATION:Paint related liquidWHMIS Classification:B3, D2AUN NUMBER:1263Class:Not regulated for roadPackaging Group:III3 for Air					ited for road
	S	ECTION II: HAZAF		rs	
Hazardous ingredients	%	T.L.V.	# CAS	LD ₅₀ (mg/kg) (species, route)	LC_{50} (species, route)
XYLENE	5-10	ACGIH 100ppm (TWA) 150ppm (STEL)	1330-20-7	4300 (rat, oral)	6350 ppm / 4H
POLYOL AND ISOCYANATE PREPOLYMER	60-100	Not Established	Not Available	Not Established	Not Established
	SE	CTION III: PHYSIC	AL CHARACTERIST	TICS	
Physical State:LiquidAppearance and Odor:Aromatic odor amber liquidOdor Threshold:Not Established		Boiling Point: Freezing Point: Density: Water Solubility:	Not Establishe Not Establishe 1.0 g/ml Not Establishe	ed ed	
Evaporation Rate:Not EstablishedpH:Not EstablishedVapor Density:Not Established% volatile:< 10					



PRODUCT: Sikafle	ex [®] 2C NS EZ MIX PA	NRT B	
	SECTION IV: FIRE AND	EXPLOSION HAZARDS	
Flammability: If Yes, under what conditions: Extinguishing methods: Special Methods:	Combustible Flame, spark Foam, dry chemical products, CO ₂ , water for large flames. Firefighters must wear complete protective clothing with respiratory equipment and they must protect any exposed skin. Heated isocyanates react strongly with water.	TDG Flammability Class: Flammable upper limits (% vol.): Flammable lower limits (% vol.): Flash Point (method used): Auto-ignition temperature: Dangerous Combustion Products: Protect from mechanical impact: Protect from static discharge:	Not regulated for road transport Not Established Not Established 44°C (TCC) Not Established Carbon oxides, Aldehydes Ketones, Nitrogen oxide, No No
	SECTION V: RE		
Chemical stability: If not, under what conditions	Yes	Dangerous decomposition products:	Carbon oxides, Aldehydes Ketones, Nitrogen oxides.
Incompatibility with other mater	ial: Yes Acid, strong oxidizer, amine.	Polymerization Risks:	No



Sika Canada Inc.

MATERIAL SAFETY DATA SHEET

PRO		RT B	
	SECTION VI: TO		
ROUTE OF E	ENTRY / CONTACT		
Eyes:	Irritating.	Carcinogenicity:	Not established
Skin:	Irritating. Contact may result in dermatitis, allergic reactions, and sensitization.	Toxic effects on reproduction:	Not established
Inhalation:	Vapor or mist from this product may cause irritation.	Teratogenicity:	Xylene is classified as a development toxicant (Embryo toxin)
Ingestion:	May cause nausea, vomiting, diarrhea, gastro-intestinal system disorder, constipation.	Mutagenicity:	Not established
		Product with synergistic effects:	Not established
sensitization,	re may cause breathing difficulties, headaches, nausea, vomiting. May spiratory, skin, eye, lung problems and		
	is applied according to the manufacturer, e symptoms should be encountered.		
A person who is sensitized to isocyanate may have a reaction with a level of isocyanate well below the T.L.V.			
	entral nervous system depressor and in rare ause a sensitization of the heart muscle <i>t</i> thmia.		



Sika Canada Inc. MATERIAL SAFETY DATA SHEET

PRODUCT:	Sikaflex [®] 2C NS EZ MIX PA	RT B	
	SECTION VII: PREV	ENTIVE MEASURES	
PERSONAL PROTECTIVE EQUIPMENT		OTHERS	
Gloves:	Use chemical resistant gloves.	Ventilation:	Sufficient ventilation required
	Not necessary under normal use.		Absorb with sand or other
Eyes:	Full-face mask or safety glasses		absorbent material.
Shoes: Clothing:	Leather Rubber Apron	Handling and Equipmer methods:	nt Avoid skin, eye and clothing contact
Other:	Eye wash station, shower	Warehouse Requirements:	Keep all containers closed in a cool, dry and well ventilated area. Keep away from heat and open flame.
		Special Shipping Instructions:	See TDG class
		Waste Disposal:	Dispose of sand and rinse water according to municipal, provincial or federal laws for disposal of chemicals.



Sika Canada Inc. MATERIAL SAFETY DATA SHEET

	Sikaflex [®] 2C NS EZ MIX PART B
	SECTION VIII: FIRST AID
Skin:	Remove contaminated clothing and shoes. Wash immediately with plenty of water. Wash clothing before re-wearing. Consult a physician if required.
Eyes:	Rinse eyes immediately with plenty of water for several minutes, while holding eyelids wide open, to ensure a proper wash. See a physician immediately.
Inhalation:	In the case of overexposure, evacuate to fresh air. Consult a physician if required.
Ingestion:	Drink plenty of water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. See a physician immediately.
	SECTION IX: PREPARATION INFORMATION
Prepared By: Telephone #: Fax #:	R & D of Sika Canada Inc. (514) 697-2610 (514) 694-2792
otice To Reader	
formation is not intended to a oduct or process. All of the s of the date hereof. Prior to	this Material Safety Data Sheet applies only to the actual Sika Canada product identified and described herein. This address, nor does it address the use or application of the identified Sika product in combination with any other materia information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable of each use of any Sika product, the user must always read and follow the warnings and instructions on the product's product label and Material Safety Data Sheet for each Sika product, which are available at web site and/or telephone f this MSDS. TIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE.
	E UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE



1. Identification

Product name	:	Sikaflex [®] -2c SL Part A limestone
Supplier	:	Sika Corporation
		201 Polito Avenue Lyndhurst, NJ 07071 USA www.sikausa.com
Telephone	:	(201) 933-8800
Telefax	:	(201) 804-1076
E-mail address	:	ehs@sika-corp.com
Emergency telephone	:	CHEMTREC: 800-424-9300 INTERNATIONAL: 703-527-3887
Recommended use of the chemical and restrictions on use	:	For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Eye irritation, Category 2A Carcinogenicity, Category 1A (Inhalation) Specific target organ systemic toxicity repeated exposure, Category 2, hearing organs (Inhalation) H319: Causes serious eye irritation. H350i: May cause cancer by inhalation. H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

GHS label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statements	H319 Causes serious eye irritation. H350i May cause cancer by inhalation. H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.
Precautionary Statements	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling.

Print Date 02/09/2017

Revision Date 02/09/2017

	 P280 Wear eye protection/ face protection. P281 Use personal protective equipment as required. Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.
Warning :	Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms. There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

Chemical name	CAS-No.	Concentration (%)
xylene	1330-20-7	>= 2 - < 5 %
aluminium sulphate	10043-01-3	>= 2 - < 5 %
ethylbenzene	100-41-4	< 1 %
Quartz (SiO2)	14808-60-7	< 1 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled	: Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses.



Revision Date 02/09/2017

	Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	 Clean mouth with water and drink afterwards plenty of water Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and	: irritant effects carcinogenic effects
delayed	Excessive lachrymation See Section 11 for more detailed information on health effec and symptoms.
	Causes serious eye irritation. May cause cancer by inhalation. May cause damage to organs through prolonged or repeate exposure if inhaled.
Protection of first-aiders	: Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.
Notes to physician	: Treat symptomatically.
ire-fighting measures	
Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific extinguishing methods	 Collect contaminated fire extinguishing water separately. Th must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Deny access to unprotected persons.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Revision Date 02/09/2017



7. Handling and storage Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products. Conditions for safe storage : Prevent unauthorized access. Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations. Materials to avoid : No data available

8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
calcium carbonate	471-34-1	CAL PEL	PEL	10 mg/m3 Total dust
		CAL PEL	PEL	5 mg/m3 respirable dust fraction
xylene	1330-20-7	OSHA Z-1	TWA	100 ppm 435 mg/m3
		OSHA P0	STEL	150 ppm 655 mg/m3
		OSHA P0	TWA	100 ppm 435 mg/m3
		ACGIH	TWA	100 ppm
		ACGIH	STEL	150 ppm
		CAL PEL	STEL	150 ppm 655 mg/m3
		CAL PEL	С	300 ppm



Revision Date 02/09/2017

		CAL PEL	PEL	100 ppm 435 mg/m3
ethylbenzene	100-41-4	ACGIH	TWA	20 ppm
		ACGIH	STEL	125 ppm
		OSHA Z-1	TWA	100 ppm 435 mg/m3
		OSHA P0	TWA	100 ppm 435 mg/m3
		OSHA P0	STEL	125 ppm 545 mg/m3
		CAL PEL	PEL	5 ppm 22 mg/m3
		CAL PEL	STEL	30 ppm 130 mg/m3
Quartz (SiO2)	14808-60-7	OSHA Z-3	TWA	30 mg/m3 / %SiO2+2 total dust
		OSHA Z-3	TWA	10 mg/m3 / %SiO2+2 respirable
		OSHA Z-3	TWA	250 mppcf / %SiO2+5 respirable
		OSHA P0	TWA	0.1 mg/m3 Respirable fraction
		ACGIH	TWA	0.025 mg/m3 Respirable fraction
		CAL PEL	PEL	0.3 mg/m3 Total dust
		CAL PEL	PEL	0.1 mg/m3 respirable dust fraction

Revision Date 02/09/2017



*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**<u>Basis</u>

ACGIH. Threshold Limit Values (TLV) OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values) OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant OSHA P2. Permissible Exposure Limits (PEL), Table Z-2 OSHA Z3. Table Z-3, Mineral Dust

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection	:	Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
		The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
Hand protection Remarks	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Hygiene measures	:	Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

9. Physical and chemical properties

Appearance	:	viscous
Color	:	gray

Revision Date 02/09/2017



	aromatic
	No data available
•	NO GALA AVAIIADIE
:	216 °F (102 °C)
:	No data available
:	0.01 mmHg (0.01 hpa)
:	1.6 g/cm3 at 68 °F (20 °C)
:	Note: insoluble
:	No data available
:	No data available
:	> 20.5 mm2/s at 104 °F (40 °C)
:	No data available
:	No data available
:	No data available
:	38 g/l A+B Combined

10. Stability and reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: The product is chemically stable.
Possibility of hazardous	: Stable under recommended storage conditions.



Revision Date 02/09/2017

reactions Conditions to avoid	:	No data available
Incompatible materials	:	No data available

11. Toxicological information

Acute toxicity

Not classified based on available information.

Ingredients:

aluminium sulphate: Acute oral toxicity

: LD50 Oral (Rat): 1,930 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Ingredients:

aluminium sulphate: Result: Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Aspiration toxicity

Not classified based on available information.

Carcinogenicity

May cause cancer by inhalation. IARC Group 1: Carcinogenic to humans

> Quartz (SiO2) 14808-60-7 Group 2B: Possibly carcinogenic to humans

Revision Date 02/09/2017



NTP	titanium dioxide ethylbenzene Known to be human car	13463-67-7 100-41-4 cinogen
	$O_{\rm uprtz}$ (SiO2)	14000 60 7

Quartz (SiO2)

14808-60-7

Titanium dioxide (13463-67-7)

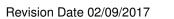
In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have seen shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes into contact with the lung. However, tests with other laboratory aninals such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that cause lung cancer. Epidemiology studies do no suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

12. Ecological information	
Other information	Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
13. Disposal considerations	
Disposal methods	
Waste from residues	: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT Not dangerous goods IATA Not dangerous goods IMDG Not dangerous goods

Special precautions for user No data available





Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

15. Regulatory information

TSCA list

: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	Acute Health Hazard Chronic Health Hazard		
SARA 302	No chemicals in this material requirements of SARA Title II		reporting
SARA 313	The following components are established by SARA Title III, xylene		ting levels 3.00 %
Clean Air Act			
Ozone-Depletion Potential	This product neither contains, Class I or Class II ODS as de Section 602 (40 CFR 82, Sub	fined by the U.S.	Clean Air Act
The following chemical(s) are I 61):	sted as HAP under the U.S. Cle	ean Air Act, Sectio	on 12 (40 CFR
xylene 1330-20-7 3.00 % This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).			
California Prop 65	WARNING: Cancer and F www.P65Warnings.ca.gov	•	n -

16. Other information

Revision Date 02/09/2017

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 02/09/2017

Material number: 183679



There was a problem getting the SDS for -

Product Name: Sodium Bisulfite **CAS Number:** 7631-90-5 **Manufacturer:** Science Stuff Inc **SDS Date:** 6/19/2013

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

SAFETY DATA SHEET

M7745 - ANSI - EN





SODIUM HYPOCHLORITE (EPA)

SDS No.: M7745

SDS Revision Date: 01-Apr-2016

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification:	Occidental Chemical Corporation 5005 LBJ Freeway P.O. Box 809050 Dallas, TX 75380-9050 1-800-752-5151
24 Hour Emergency Telephone Number:	1-800-733-3665 or 1-972-404-3228 (USA); CANUTEC (Canada): 1-613-996-6666; CHEMTREC (within USA and Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-3887; CHEMTREC Contract No: CCN16186
To Request an SDS:	MSDS@oxy.com or 1-972-404-3245
Customer Service:	1-800-752-5151 or 1-972-404-3700
Product Identifier:	SODIUM HYPOCHLORITE (EPA)
Synonyms:	Chlorine bleach, Soda bleach
Product Use:	Bleaching agent, Chemical Intermediate, Water treatment (chlorination)
Uses Advised Against:	None identified
Note:	Sodium Hypochlorite (EPA) is a registered antimicrobial pesticide: EPA Registration Number 935-20007.

SECTION 2. HAZARDS IDENTIFICATION

SDS No.: M7745	SDS Revision Date: 01-Apr-2016
OSHA REGULATORY STATUS:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

EMERGENCY OVERVIEW:

Color:	Colorless to yellow
Physical State:	Liquid
Appearance:	Clear
Odor:	Characteristic bleach odor

Signal Word:

DANGER

MAJOR HEALTH HAZARDS: CORROSIVE. CAUSES SERIOUS EYE DAMAGE. CAUSES SEVERE SKIN BURNS. CAUSES DAMAGE TO RESPIRATORY SYSTEM WHEN INHALED. TOXIC IF SWALLOWED. MAY CAUSE DAMAGE TO GASTROINTESTINAL TRACT WHEN SWALLOWED.

PHYSICAL HAZARDS: CORROSIVE TO METALS.

AQUATIC TOXICITY: Toxic to fish and aquatic organisms.

PRECAUTIONARY STATEMENTS: Do not breathe mist, vapors, or spray. Do not taste or swallow. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye, and face protection. Do not eat, drink or smoke when using this product. Keep only in original container. Avoid release to the environment. Store in a secure manner. Store in corrosive resistant container with a resistant inner liner.

GHS CLASSIFICATION:

GHS: PHYSICAL HAZARDS:	Corrosive to Metals
GHS: CONTACT HAZARD - SKIN:	Category 1C - Causes severe skin burns and eye damage.
GHS: CONTACT HAZARD - EYE:	Category 1 - Causes serious eye damage
GHS: TARGET ORGAN	Category 1 - Causes damage to: Respiratory System
TOXICITY (SINGLE EXPOSURE):	
GHS: CARCINOGENICITY:	Not classified as a carcinogen per GHS criteria. This product is not classified as a
	carcinogen by NTP, IARC, or OSHA.

UNKNOWN ACUTE TOXICITY: Listed below.

Unknown Acute Dermal Toxicity:

100% of this product consists of ingredient(s) of unknown acute dermal toxicity.

Unknown Acute Inhalation Toxicity:

100% of this product consists of ingredient(s) of unknown acute inhalation toxicity.

GHS SYMBOL: Corrosion, Health hazards

SDS No.: M7745

SDS Revision Date: 01-Apr-2016



GHS SIGNAL WORD: DANGER

GHS HAZARD STATEMENTS:

GHS - Physical Hazard Statement(s)

• May be corrosive to metals

GHS - Health Hazard Statement(s)

- Causes severe skin burns and eye damage
- Causes serious eye damage
- Causes damage to organs (Respiratory System)

GHS - Precautionary Statement(s) - Prevention

- · Do not breathe mist, vapors, or spray
- Wear protective gloves, protective clothing, eye, and face protection
- Wash thoroughly after handling
- · Do not eat, drink or smoke when using this product
- Keep only in original container

GHS - Precautionary Statement(s) - Response

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- IF INHALED: Remove person to fresh air and keep comfortable for breathing
- Immediately call a POISON CENTER or doctor/physician
- Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)
- · Wash contaminated clothing before reuse
- · IF exposed: Call a POISON CENTER or doctor/physician
- Absorb spillage to prevent material damage

GHS - Precautionary Statement(s) - Storage

- Store in a secure manner
- · Store in corrosive resistant container with a resistant inner liner

GHS - Precautionary Statement(s) - Disposal

• Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

Hazards Not Otherwise Classified (HNOC)

Contact with acids liberates toxic gas

See Section 11: TOXICOLOGICAL INFORMATION

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Chlorine bleach, Soda bleach

Constaine Conditions by march levite. Conditional Understate

Component	Percent [%]	CAS Number
Water	70-76	7732-18-5
Sodium hypochlorite	12.5-15	7681-52-9
Sodium Chloride	11-14.5	7647-14-5
Sodium Hydroxide	0.5-1.5	1310-73-2

SECTION 4. FIRST AID MEASURES

INHALATION: If inhalation of mists, vapors, or spray occurs and adverse effects result, remove to uncontaminated area. Evaluate ABC's (is Airway constricted, is Breathing occurring, and is blood Circulating) and treat symptomatically. GET MEDICAL ATTENTION IMMEDIATELY. There is no specific antidote, treat symptomatically.

SKIN CONTACT: Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with large amounts of water. GET MEDICAL ATTENTION IMMEDIATELY. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods.

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately contact a physician. Immediate and thorough decontamination of the eye is essential followed by ophthalmological assessment. Follow protocol for corrosive injury.

INGESTION: If swallowed, DO NOT INDUCE VOMITING. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Never give anything by mouth to an unconscious or convulsive person. GET MEDICAL ATTENTION IMMEDIATELY.

Most Important Symptoms/Effects (Acute and Delayed): :..

Acute Symptoms/Effects: Listed below.

Inhalation (Breathing): Respiratory System Effects: Inhalation exposure may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure. **Skin:** Skin Corrosion. Skin exposure to gas or liquid may cause redness, irritation, burning sensation, swelling,

blister formation, first, second, or third degree burns.

Eye: Serious Eye Damage. Exposure to eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of the eye.

Ingestion (Swallowing): Gastrointestinal System Effects: Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

Delayed Symptoms/Effects:

- Repeated and prolonged skin contact may cause a dermatitis

SDS No.: M7745

SDS Revision Date: 01-Apr-2016

Interaction with Other Chemicals Which Enhance Toxicity: Mixing with ammonia, acids, detergents, or organic matter will release chlorinated compounds, which are irritating to eyes, lungs, and mucus membranes.

Medical Conditions Aggravated by Exposure: May aggravate preexisting conditions such as:. Eye disorders that decrease tear production or have reduced integrity. Skin disorders that compromise the integrity of the skin. Respiratory conditions including asthma and other breathing disorders.

Protection of First-Aiders: Protect yourself by avoiding contact with this material. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Do not ingest. Use personal protective equipment. Refer to Section 8 for specific personal protective equipment recommendations. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

Notes to Physician: Treat as a corrosive due to the pH of this material. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. Probable mucosal damage may contraindicate the use of gastric lavage. There is no specific antidote. Treatment is supportive care. Follow normal parameters for airway, breathing, and circulation.

SECTION 5. FIRE-FIGHTING MEASURES

Fire Hazard: May release toxic gases.

Fire Fighting: Wear an approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Сотро	nent	Immediately Dangerous to Life/ Health (IDLH)
Sodium Hy 1310-7		10 mg/m ³ IDLH
Hazardous Combustion Products:	Hydrogen chloride, Chlorine	
Sensitivity to Mechanical Impact:	Not sensitive.	
Sensitivity to Static Discharge:	Not sensitive.	
Lower Flammability Level (air):	Not flammable	
Upper Flammability Level (air):	Not flammable	
Flash point:	Not flammable	
Auto-ignition Temperature:	Not applicable	
GHS: PHYSICAL HAZARDS: - Corrosive to Metals		

SDS No.: M7745

SDS Revision Date: 01-Apr-2016

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with skin, eyes and clothing. Avoid breathing fumes, vapor, mist, or spray. Wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS. Vacate poorly ventilated areas as soon as possible, and do not return until odors have dissipated. Evacuation of surrounding area may be necessary for large spills. Stay upwind and keep out of low areas. Consider evacuation of personnel located downwind. Refer to Section 7, Handling and Storage, for additional precautionary measures.

Methods and Materials for Containment and Cleaning Up:

Remove sources of ignition. Stop leak if possible without personal risk. Keep people away from and upwind of spill/leak. Evacuation of surrounding area may be necessary for large spills. Absorb spillage to prevent material damage. Absorb with inorganic absorbents. Liquid material may be removed with a vacuum truck. Shovel dried residue into suitable container. See Section 13, Disposal considerations, for additional information.

Environmental Precautions:

Keep out of water supplies and sewers. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use only with adequate ventilation. Vacate poorly ventilated areas as soon as possible, and do not return until odors have dissipated.

Safe Storage Conditions:

Store and handle in accordance with all current regulations and standards. If possible, store in original container. If not possible, store in a corrosion resistant container with a resistant inner liner and with an adequate relief device. Keep container tightly closed and upright when not in use. Store in a cool, dry area. Store out of direct sunlight. Store in a well-ventilated area. Avoid heat, flames, sparks and other sources of ignition. Do not freeze. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet). Store in a secure manner.

Incompatibilities/ Materials to Avoid:

Material is a strong oxidizing agent and should only be mixed with water. Mixing this product with chemicals (e.g. ammonia compounds, acids, detergents) or organic matter will release chlorinated compounds, which are irritating to eyes, lungs, and mucous membranes, Other materials to avoid include: most metals, peroxides, reducing agents, oxidizing agents

GHS: PHYSICAL HAZARDS:

- Corrosive to Metals

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

SDS No.: M7745

Regulatory Exposure Limit(s): As listed below.

Component	OSHA Final PEL TWA	OSHA Final PEL STEL	OSHA Final PELCeiling
Sodium Hydroxide 1310-73-2	2 mg/m ³		

OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit

NON-REGULATORY EXPOSURE LIMIT(S): As listed below.

Component	ACGIH TWA	ACGIH STEL	ACGIH Ceiling	OSHA TWA (Vacated)	OSHA STEL (Vacated)	OSHA Ceiling (Vacated)
Sodium Hydroxide			2 mg/m ³			2 mg/m ³

- The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).

- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

Component	OXY REL 8 hr TWA	OXY REL STEL	OXY REL Ceiling
Sodium hypochlorite 7681-52-9 (12.5-15)		2 mg/m³	
Sodium Chloride 7647-14-5 (11-14.5)			

ENGINEERING CONTROLS: Use closed systems when possible. Provide local exhaust ventilation where vapor or mist may be generated. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear splash resistant safety goggles with a face-shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Contaminated clothing should be removed, then discarded or laundered.

Hand Protection: Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

Protective Material Types:

Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC)

SDS No.: M7745

SDS Revision Date: 01-Apr-2016

Respiratory Protection: A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. Acid gas cartridges may be required if decomposition products are present. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

Component	Immediately Dangerous to Life/ Health (IDLH)
Sodium Hydroxide	10 mg/m ³ IDLH
1310-73-2	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Partition CoefficientNo data available(n-octanol/water):	pH:12Volatility:No data availableEvaporation Rate (ether=1):No data available	(water=1): Density: 9.9 - 10.5 lb/gal Water Solubility: 100%
		pH:12Volatility:No data availableEvaporation Rate (ether=1):No data availablePartition CoefficientNo data available
Density:9.9 - 10.5 lb/galWater Solubility:100%pH:12Volatility:No data available	Density: 9.9 - 10.5 lb/gal	
Water Solubility:100%pH:12Volatility:No data available	Relative Density/Specific Gravity 1.22(water=1):Density:9.9 - 10.5 lb/gal	Relative Density/Specific Gravity 1.22

SECTION 10. STABILITY AND REACTIVITY

Reactivity: May decompose upon heating and exposure to sunlight.

Chemical Stability: Stable at normal temperatures and pressures.

SDS No.: M7745

SDS Revision Date: 01-Apr-2016

Possibility of Hazardous Reactions: No data available.

Conditions to Avoid: Avoid heat, flames, sparks and other sources of ignition. Direct sunlight.

Incompatibilities/ Materials to Avoid: Material is a strong oxidizing agent and should only be mixed with water. Mixing this product with chemicals (e.g. ammonia compounds, acids, detergents) or organic matter will release chlorinated compounds, which are irritating to eyes, lungs, and mucous membranes. Other materials to avoid include: most metals, peroxides, reducing agents, oxidizing agents.

Hazardous Decomposition Products: hydrogen chloride, Chlorine, oxygen

Hazardous Polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

PRODUCT TOXICITY DATA: SODIUM HYPOCHLORITE (EPA)

LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
8910 mg/kg (Rat)	No data available	No data available

COMPONENT TOXICITY DATA:

Note: The component toxicity data is populated by the LOLI database and may differ from the product toxicity data given.

Component	LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
Sodium hypochlorite 7681-52-9 (12.5-15 %)	8200 mg/kg (Rat)	10000 mg/kg (Rabbit)	Not listed
Sodium Chloride 7647-14-5 (11-14.5 %)	3000 mg/kg (Rat)	Not listed	42 g/m³ (1 hr-Rat)
Sodium Hydroxide 1310-73-2 (0.5-1.5 %)	140-3400 mg/kg	1350 mg/kg (Rabbit)	Not listed

POTENTIAL HEALTH EFFECTS:

Eye contact:	Causes serious eye damage. Eye exposures may cause burns to the eye lids, conjunctivitis, corneal edema, and corneal burn.
Skin contact:	Skin contact may be irritating and corrosive. Can cause skin burns.
Inhalation:	Inhalation may cause coughing, choking, irritation (possibly severe), chemical burns, shortness of breath, and pulmonary edema. Pulmonary edema may develop several hours after a severe acute exposure.

SDS No.: M7745	SDS Revision Date: 01-Apr-2016
Ingestion:	Not a likely route of exposure in occupational settings. If swallowed, may cause irritation, swelling, pain, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.
Chronic Effects:	Repeated or prolonged skin contact may result in dermatitis.

SIGNS AND SYMPTOMS OF EXPOSURE:

Listed below.

Inhalation (Breathing): Respiratory System Effects: Inhalation exposure may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure. **Skin:** Skin Corrosion. Skin exposure to gas or liquid may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.

Eye: Serious Eye Damage. Exposure to eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of the eye.

Ingestion (Swallowing): Gastrointestinal System Effects: Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

TOXICITY:

Carefully controlled sensitization studies on animal have not resulted in any reproducible positive findings. Standard sensitization patch tests in healthy human volunteers show no potential to induce contact sensitization. In tests using rats and mice, there was no evidence of carcinogenicity.

Interaction with Other Chemicals Which Enhance Toxicity: Mixing with ammonia, acids, detergents, or organic matter will release chlorinated compounds, which are irritating to eyes, lungs, and mucus membranes.

GHS HEALTH HAZARDS:

Listed below.

GHS: CONTACT HAZARD - EYE: Category 1 - Causes serious eye damage

GHS: CONTACT HAZARD - Category 1C - Causes severe skin burns and eye damage. **SKIN:**

Skin Absorbent / Dermal Route? No.

GHS: CARCINOGENICITY:

Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC, or OSHA.

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):

Category 1 - Respiratory system

MUTAGENIC DATA:

Not classified as a mutagen per GHS criteria. Sodium hypochlorite has tested positive in in vitro test systems and negative in in vivo test systems. These results are consistent with other germicides.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

Aquatic Toxicity:

Data provided are for sodium hypochlorite.

Component	Freshwater Fish	Invertebrate	Algae Toxicity:	Other Toxicity:
		Toxicity:		
Sodium hypochlorite 7681-52-9 (12.5-15)	 LC50 clupea harengus 0.033 - 0.097 mg//l/96 hr, flow through bioassay (pH: 8) LC50 cymatogaster aggregata 0.045 - 0.098 mg/l/96 hr, flow through bioassay (pH: 8) LC50 gasterosteus aculeatus 0.141 - 0.193 mg/l/96 hr, flow through bioassay (pH: 8) LC50 oncorhynchus gorbuscha 0.023 - 0.052 mg/l/96 hr, flow through bioassay (pH: 8) LC50 oncorhynchus kisutch 0.026 - 0.038 mg/l/96 hr, flow through bioassay (pH: 8) LC50 parophrys vetulus 0.044 - 0.144 mg/l/96 hr, flow through bioassay (pH: 8) LC50 pimephales promelas 0.22 - 0.62 mg/l/96 hr, flow through bioassay (pH: 7) 	- EC50 daphnia magna 0.07 - 0.7 mg/l/24 hr - EC50 daphnia magna 2.1mg/l/96 hr - EC50 gammarus fasciatus 4 mg/l/96 hr - EC50 nitocra spinipes 40 mg/l/96 hr - EC50 palaemonetes pugio 52 mg/l/96 hr	- ErC50 dunaliella sp. 0.6 mg/l/24 hr - ErC50 dunaliella tertiolecta 0.11 mg/l/24 hr -ErC50 skeletonema costatum 0.095 mg/l/24 hr	

FATE AND TRANSPORT:

BIODEGRADATION: This material is inorganic and not subject to biodegradation.

PERSISTENCE: This material is believed not to persist in the environment.

SDS No.: M7745

BIOCONCENTRATION: This material is not expected to bioconcentrate in organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from material:

Reuse or reprocess, if possible. May be subject to disposal regulations. Dispose of in accordance with federal, state and local regulations.

Container Management:

See product label for container disposal information. Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

SECTION 14. TRANSPORT INFORMATION

LAND TRANSPORT

U.S. DOT 49 CFR 172.101: UN NUMBER: PROPER SHIPPING NAME: HAZARD CLASS/ DIVISION: PACKING GROUP: LABELING REQUIREMENTS:	UN1791 Hypochlorite solutions (SODIUM HYPOCHLORITE) 8 III 8
MARINE POLLUTANT: RQ (lbs):	Marine Pollutant (Sodium Hypochlorite) RQ 100 Lbs. (Sodium hypochlorite)
UN NUMBER: SHIPPING NAME: CLASS OR DIVISION: PACKING/RISK GROUP: LABELING REQUIREMENTS:	DN OF DANGEROUS GOODS: UN1791 Hypochlorite Solution (Sodium Hypochlorite) 8 III 8 Marine Pollutant (Sodium Hypochlorite)
MARITIME TRANSPORT (IMO UN NUMBER: PROPER SHIPPING NAME: HAZARD CLASS / DIVISION: Packing Group: LABELING REQUIREMENTS: MARINE POLLUTANT:	UN1791 Hypochlorite solutions (SODIUM HYPOCHLORITE) 8 III

SDS No.: M7745

SECTION 15. REGULATORY INFORMATION

U.S. REGULATIONS

OSHA REGULATORY STATUS:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

If a release is reportable under CERCLA section 103, notify the state emergency response commission and local emergency planning committee. In addition, notify the National Response Center at (800) 424-8802 or (202) 426-2675.

Component	CERCLA Reportable Quantities:	
Sodium hypochlorite	100 lb (final RQ)	
Sodium Hydroxide	1000 lb (final RQ)	

SARA EHS Chemical (40 CFR 355.30)

Not regulated

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):

Acute Health Hazard

EPCRA SECTION 313 (40 CFR 372.65):

Not regulated

OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):

Not regulated

<u>FIFRA REGULATIONS</u>: Registered pesticide under 40 CFR 152.10, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA)

SDS No.: M7745

SDS Revision Date: 01-Apr-2016

FIFRA LABELING REQUIREMENTS: - This chemical is a pesticide product registered by the United States Environmental Protection Agency (EPA) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

- FIFRA Signal Word DANGER
- Corrosive
- May cause burns to eyes, skin, and mucus membranes
- Causes eye damage
- This pesticide is toxic to fish and aquatic organisms
- STRONG OXIDIZING AGENT
- Mix only with water according to label directions

- Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas, which is irritating to eyes, lungs, and mucus membranes

FDA: This product is not produced under all current Good Manufacturing Practices (cGMP) requirements as defined by the Food and Drug Administration (FDA).

NATIONAL INVENTORY STATUS

Component	U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA):
Sodium hypochlorite 7681-52-9 (12.5-15 %)	Listed
Sodium Chloride 7647-14-5 (11-14.5 %)	Listed
Sodium Hydroxide 1310-73-2 (0.5-1.5 %)	Listed

TSCA 12(b): This product is not subject to export notification.

Canadian Chemical Inventory: All components of this product are listed on either the DSL or the NDSL.

STATE REGULATIONS

Component	California Proposition 65 Cancer WARNING:	California Proposition 65 CRT List - Male reproductive toxin:	Proposition 65 CRT List - Female	Massachusetts Right to Know Hazardous Substance List	Hazardous	New Jersey Special Health Hazards Substance List
Sodium hypochlorite 7681-52-9	Not Listed	Not Listed	Not Listed	Listed	1707	Not Listed
Sodium Chloride 7647-14-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Hydroxide 1310-73-2	Not Listed	Not Listed	Not Listed	Listed	1706	Corrosive

Component	New Jersey -	Pennsylvania Right	Pennsylvania Right	Pennsylvania Right	Rhode Island Right
·	Environmental	to Know Hazardous	to Know Special	to Know	to Know Hazardous
	Hazardous	Substance List	Hazardous	Environmental	Substance List
	Substance List		Substances	Hazard List	

SODIUM HYPOCHLORITE (EPA)

SDS No.: M7745

SDS Revision Date: 01-Apr-2016

Sodium hypochlorite	Not Listed	Listed	Not Listed	Present	Not Listed
7681-52-9					
Sodium Chloride	Not Listed				
7647-14-5					
Sodium Hydroxide	Not Listed	Listed	Not Listed	Present	Listed
1310-73-2					

CANADIAN REGULATIONS

• This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

WHMIS - Classifications of Substances:

• E - Corrosive material

SECTION 16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Product Stewardship

Rev. Date: 01-Apr-2016

Reason for Revision:

- Updated Transportation Information: SEE SECTION 14
- Updated First Aid Measures: SEE SECTION 4
- Format change to sections: 2, 5, 8, 11, 12, 15, and 16

IMPORTANT:

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and OxyChem assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees

SODIUM HYPOCHLORITE (EPA)

SDS Revision Date: 01-Apr-2016

End of Safety Data Sheet

There was a problem getting the SDS for -

Product Name: Johnsen's Starting Fluid **CAS Number: Manufacturer:** Technical Chemical Company **SDS Date:** 5/17/2013

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

Product Name: Tecnu® Original Outdoor Skin Cleanser Tec Laboratories, Inc.

PAGE 1 of 5 Issue Date: 19 Oct 2018 Revision No. 02

1. IDENTIFICATION

Product name:	Tecnu [®] Original Outdoor Skin Cleanser
CAS number:	Not available for this mixture
Chemical family:	Detergent
Recommended use:	Cleanser for removal of poison plant oils
Manufacturer:	Tec Laboratories, Inc.
	7100 Tec Labs Way SW
	Albany, Oregon 97321
	Emergency telephone number: (541) 926-4577
	24-Hour Emergency Assistance: 1-800-535-5053
	Email: info@teclabsinc.com

2. HAZARD(S) IDENTIFICATION

Classification: Flammable liquid, Category 3 Skin corrosion/irritation, Category 2 Eye damage/irritation, Category 2B

Symbol:



Signal word: Hazard statements: Warning Flammable liquid and vapor Causes skin irritation Causes eye irritation

Precautionary Statements:

Prevention (Flammability)

Keep away from heat, sparks, open flames, and hot surfaces – No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, and lighting equipment and nonsparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection when handling in bulk and during prolonged use. Prevention (Skin corrosion/irritation) Wash sensitive skin thoroughly after handling. Wear protective gloves when handling in bulk. Prevention (Eye damage/irritation) Wash hands thoroughly after handling. Avoid applying in or near eyes. Wear eye protection/face protection when handing in bulk.

Product Name: **Tecnu® Original Outdoor Skin Cleanser** Tec Laboratories, Inc.

PAGE 2 of 5 Issue Date: 19 Oct 2018 Revision No. 02

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.	COMPOSITION/INFORMATION ON	INGREDIENTS
	Product name:	Tecnu® Original Outdoor Skin Cleanser
	Hazardous ingredients:	None
	Ingredients:	Deodorized mineral spirits, water, propylene glycol, octylphenoxy-
	_	polyethoxyethanol, mixed fatty acid soap, fragrance
	Other ingredients:	The specific chemical identity and/or exact percentage (concentration) of
	_	ingredient composition is withheld as proprietary.
4.	FIRST AID MEASURES	
	Skin:	If on sensitive skin: take off contaminated clothing and rinse skin with
		water/shower for at least 15 minutes. Wash clothes before reuse. If skin
		irritation occurs: get medical advice/attention
	Eyes:	If in eyes: Rinse cautiously with water for several minutes. Remove contact
		lenses, if present and easy to do so. Continue rinsing. If eye irritation persists:
		Get medical advice/attention.
	Inhalation:	Not likely to occur. If inhaled: Remove to fresh air. Seek medical attention if
		respiratory irritation or distress continues.
	Ingestion:	If ingested: seek medical advice/attention immediately. Will cause nausea if
	C C	swallowed. Stomach cramps may also occur. DO NOT INDUCE VOMITING.
	NOTE TO PHYSICIAN:	For ingestion: Treat as for petroleum jelly ingestion. There is no specific
		antidote for other routes of entry. Treatment of over-exposure should be
		directed at the control of symptoms and the clinical solution.
5.	FIREFIGHTING MEASURES	
	Extinguishing media:	Foam for large fires, carbon dioxide or dry chemical for small fires
	Exposure hazards:	Smoke may be generated when burning
	Firefighting procedures:	Keep away from heat or hot surfaces above 150 °F, treat vapors as you would
		odorless spirits. Treat as oil fire.
	Combustion products:	No data available
6.	ACCIDENTAL RELEASE MEASURES	
	Personal precautions:	Refer to Section 8 of the SDS for personal protection details
	Environmental precautions:	Absorbed material should be landfilled according to Federal, State and local
	-	regulations
	Clean-up procedures:	Absorb with dry sand or oil absorbents. All materials are biodegradable. Clean
		spill area with detergent solution and flush down sewer with water.
7.	HANDLING AND STORAGE	
	Handling requirements:	Keep away from heat, sparks, and flame. Avoid contact with eyes.
	Storage conditions:	Store between 59 - 86°F (15 – 30°C) in original closed container. Store in an
		area that is dry and well-ventilated.
8.	EXPOSURE CONTROLS/PERSONAL	PROTECTION
	F	Nama

Exposure limits: None Respiratory protection: None required for normal use Hand protection: None required for normal use

Product Name: Tecnu® Original Outdoor Skin Cleanser

Tec Laboratories, Inc.

PAGE 3 of 5 Issue Date: 19 Oct 2018 Revision No. 02

Eye protection:	None required for normal use. Avoid spraying product in or around eyes.
Skin protection:	None required for normal use
When handling in bulk:	Wear OSHA approved safety glasses. Wear rubber gloves. To avoid excessive
	exposure, wear impervious boots and clothing. Respiratory protection not
	necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:	Liquid
Color:	-
Odor:	Lavender
Odor threshold:	Not available
pH:	About 7.5
Melting point:	Not available
Freezing point:	Not available
Boiling point:	Not available
Flash point (closed cup):	45.5°C (ASTM D93)
Evaporation rate:	Not available
Solubility(ies):	100% (by weight in water)
Flammability (solid, gas):	Not applicable
Flammability limits:	Not available
Explosion limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Partition coefficient:	Not available
Specific gravity:	0.916 @ 25°C
Viscosity:	About 1100 cps
Auto-ignition temperature:	Unknown
Density:	7.65 lbs/gallon
Decomposition temperature:	Not available

10. STABILITY AND REACTIVITY

Stability:	Stable, no decomposition if used according to directions
Reactivity:	Not available
Possibility of hazardous reactions:	None are known
Conditions to avoid:	Heat, sparks, flame
Materials to avoid:	Strong oxidizing agents
Hazardous decomposition products:	Waxy mixed alkanes at high temperatures
Hazardous polymerization:	Will not occur

11. TOXICOLOGICAL INFORMATION

Primary routes of entry:	Skin, eyes, ingestion
Acute oral toxicity:	LD ₅₀ > 5g/kg, non-toxic
Acute dermal toxicity:	LD ₅₀ > 5g/kg, non-toxic
Skin corrosion/irritation:	Primary Skin Irritation Index score (PDII): 4.375; moderate
Eye damage/irritation:	Average Draize score range 2.5 – 25.0; minimal to mild
Respiratory/Skin sensitization:	Buehler Technique – Grade 1:, Rank: Weak; weak sensitizer

Product Name: **Tecnu® Original Outdoor Skin Cleanser** Tec Laboratories, Inc.

PAGE 4 of 5 Issue Date: 19 Oct 2018 Revision No. 02

Acute inhalation toxicity: Germ cell mutagenicity: Carcinogenity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Potential health effects: Signs and Symptoms of Exposure: Occupation Exposure Limit:	No data available No data available Not listed as a cancer causing agent by NTP, IARC, or OSHA No data available No data available No data available Skin: may cause irritation on sensitive skin Eyes: may cause mild irritation May cause minimal to mild irritation of the eyes. Extended use may cause drying of the skin. Prolonged contact may cause dermatitis or chemical burns on sensitive skin. Nausea and/or stomach cramps may occur if swallowed. Not established
12. ECOLOGICAL INFORMATION	
Toxicity:	Material is not considered toxic
Persistence and biogradability: Mobility:	All materials are biodegradable Readily absorbed into soil
Other adverse effects:	Negligible ecotoxicity
13. DISPOSAL CONSIDERATIONS Disposal methods:	Absorbed materials should be landfilled in closed containers according to Federal, State and local regulation.
14. TRANSPORT INFORMATION	
USDOT/PHMSA:	UN1993
	Flammable liquids, no.s. (mineral spirits) Class 3 Flammable Liquid
	Packing Group III
	Per 49 CFR 173.150(f) of the Hazardous Materials Regulations a Class 3 Flammable Liquid, PG III, transported by highway or rail w/i the U.S. may be reclassed as a Class 3 Combustible Liquid. A Class 3 Combustible Liquid transported by highway or rail w/i the U.S. in a non-bulk packaging (≤119 gal) is not subject to regulation as a hazardous material. This product is packaged and shipped by Tec Laboratories, Inc. in a non-bulk packaging.
ICAO/IATA:	UN1993
	Flammable liquids, n.o.s. (mineral spirits)
	Class 3 Flammable Liquid Packing Group III
	Per packing instructions Y344 this product may be transported as a limited
	quantity within the following limits:
	 ≤10 L net quantity per package. ≤2.5 L (glass), ≤5 L (metal), or ≤10 L (plastic) net quantity per inner
	packaging.
	 ≤30 kg gross package weight.

Product Name: Tecnu® Original Outdoor Skin Cleanser

Tec Laboratories, Inc.

PAGE 5 of 5 Issue Date: 19 Oct 2018 Revision No. 02

This product is packaged and shipped by Tec Laboratories, Inc. with a net capacity of \leq 5 L or 5 kg.

IMO: UN1993

Flammable liquids, n.o.s. (mineral spirits)

Class 3 Flammable Liquid

Packing Group III

Per column 7a of the Dangerous Goods List this product may be transported as a limited quantity within the following limits:

- ≤5 L net quantity per inner packaging.
- ≤30 kg gross package weight.

This product is packaged and shipped by Tec Laboratories, Inc. with a net capacity of \leq 5 L or 5 kg.

NOTE: Please consult 49 CFR Subchapter C to ensure subsequent shipments comply with regulation.

15. REGULATORY INFORMATION

This SDS was prepared in accordance with 29CFR 1910.1200 OSHA Hazard Communication

16. OTHER INFORMATION

Revision date: 19 Oct 2018 Revision indicator: Revision to Section 14 Disclaimer: The information contained herein is accurate to the best of our knowledge. Tec Laboratories, Inc. makes no warranty of any kind, expressed or implied, concerning the safe personal use of this material or in combination with other substances. Please refer to the pesticide label for complete directions for use and additional warning information. Tec Labs will not accept liability for

damage or injury resulting from misuse.

There was a problem getting the SDS for -

Product Name: Thorite CAS Number: Manufacturer: Thoro Consumer Products SDS Date: 7/1/2007

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again



SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Tireseal PRODUCT IDENTIFIER CODE(S): 101101 PRODUCT RECOMMENDED/INTENDED USE: Tire Puncture Sealing Compound MANUFACTURER/SUPPLIER: Texas Refinery Corp. ADDRESS: 500 Airport Drive, Mansfield, TX 76063 GENERAL INFORMATION: 817-332-1161 24 HR. EMERGENCY PHONE NUMBER: CHEMTREC 1-800-424-9300

SECTION 2

HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines.

SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Weight %
Ethylene glycol	107-21-1	20-25
Diethylene glycol	111-46-6	1-2
Xanthan gum	11138-66-2	0.1-1.0
Methyl paraben	99-76-3	0.1-1.0
Sodium nitrite	7632-00-0	1-2
Polyethylene	9002-88-4	1-2
Proprietary Acid Dye	N/A	<1.0
Non-hazardous components or other components below	N/A	70-75
reportable levels		

*Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4

FIRST AID MEASURES

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN (or hair): Remove/take off any contaminated clothing and wash skin thoroughly with soap and plenty of water. Wash contaminated clothing before reuse.

IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention.

IF SWALLOWED: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this product are swallowed, call a POISON CENTER or physician immediately.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. **IF EXPOSED OR CONCERNED:** Get medical advice/attention if you feel unwell.

SECTION 5

FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water spray, water fog, dry chemical, alcohol-resistant foam, carbon dioxide (CO₂). **UNSUITABLE EXTINGUISHING MEDIA:** Straight streams of water.

SPECIAL FIREFIGHTING PROCEDURES: Water spray may be used to keep fire-exposed containers cool, protect personnel attempting to stop leak, and disperse vapors. Evacuate area. Do not release runoff from fire control methods to sewers or waterways.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes, carbon oxides and unknown organic compounds.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: Wear full protective clothing. Wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand mode or positive-pressure mode.

SECTION 6

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use appropriate personal protective equipment. Avoid breathing vapors, mist or gas. Avoid contact with spilled material. Ensure adequate ventilation. Remove all sources of ignition. Use non-sparking tools and equipment.

PROTECTIVE EQUIPMENT: Standard work uniform. Impervious gloves. Safety glasses. Personnel should increase PPE level as deemed appropriate in any given situation.

EMERGENCY PROCEDURES

SMALL SPILLS: Contain and recover when possible. Collect in an appropriate container or absorb with an inert material (such as vermiculite or dry sand) and place into appropriate chemical waste disposal container(s). Do not use combustible materials such as sawdust for cleanup.

LARGE SPILLS:

Containment: Shut off source of leak if safe to do so. Dike far head of liquid spill for later disposal. Do not allow material to enter sewers or waterways.

Cleanup: Contain and recover when possible. Collect in appropriate container. Absorb residue with an inert material (such as vermiculite or dry sand) and place into appropriate chemical waste disposal container(s). Do not use combustible materials such as sawdust for cleanup.

SECTION 7

HANDLING AND STORAGE

HANDLING PRECAUTIONS: Avoid contact with eyes and skin. Avoid inhalation of vapor or mist. This product is not intended to be ingested. Do not take internally. Wash skin thoroughly after handling. Wash contaminated clothing before re-use. Discard contaminated shoes.

STORAGE: Keep container tightly closed when not in use. Store in a dry and well-ventilated place. Do not allow product to freeze. Keep away from oxidizing agents. Keep out of reach of children. Avoid release to the environment.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Controls should be such that adequate ventilation is provided.

VENTILATION: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred as it prevents contaminant dispersion into the workplace by controlling it at its source.

RESPIRATORY PROTECTION: Seek professional advice prior to respirator selection and use. Follow OSHA respirator guidelines (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (e.g. cleaning spills, reactor vessels or storage tanks), wear an SCBA. *Warning! Air purifying respirators do not protect workers from oxygen deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least medical certification, graining, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning and convenient, sanitary storage areas.

EYE PROTECTION: Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection guidelines (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with, contact lenses.

SKIN PROTECTION: Wear chemically protective gloves, boots, aprons and gauntlets to prevent prolonged or repeated skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Make emergency eyewash stations, safety/quick drench showers and washing facilities available in workplace areas.

WORK HYGIENIC PRACTICES: Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material and especially before eating, drinking, smoking, using toilet facilities or applying cosmetics. Separate contaminate work clothes from street clothes. Launder clothing before reuse. Discard contaminated shoes and leather articles. Clean personal protective equipment.

EXPOSURE GUIDELINES:

Component	ACGIH TLV/STEL	OSHA PEL/STEL	NIOSH REL/IDLH
Ethylene Glycol	NE	NE	NE
(107-21-1)			
Diethylene Glycol	NE	NE	NE
(111-46-6)			
Xanthan Gum	NE	NE	NE
(11138-66-2)			
Methyl paraben	NE	NE	NE
(99-76-3)			
Sodium nitrite	TWA: 10 mg/m ³ (inhalable fraction)	TWA: 15 mg/m ³	-
(7632-00-0)	TWA: 3 mg/m ³ (Respirable fraction)	(Respirable fraction)	
		TWA: 5 mg/m ³	
		(Respirable fraction)	
Polyethylene	10 mg/m ³ (total dust)	15 mg/m ³ (total dust)	-
(9002-88-4)	3 mg/m ³ (respirable dust)	5 mg/m ³ (respirable dust)	

OTHER ADDITIONAL INFORMATION: Keep away from foodstuffs, beverages and feed.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (Color and physical state): Pink gelatinous material **ODOR:** Glycol odor **ODOR THRESHOLD:** Not determined **pH:** Not determined MELTING POINT/FREEZING POINT: Not determined BOILING POINT (°F/C): 212/100 approximately FLASH POINT (°F/C): None **AUTOIGNITION TEMPERATURE: Not determined DECOMPOSITION TEMPERATURE:** Not determined EVAPORATION RATE (Butyl Acetate =1): Not determined FLAMMABILITY (solid, gas): Non-flammable. Non-combustible. **EXPLOSIVE PROPERTIES:** Not explosive UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: N/A VAPOR PRESSURE (mm Hg): Not determined VAPOR DENSITY (Air=1): Not determined SOLUBILITY (ies) in water: Appreciable SPECIFIC GRAVITY (H₂O=1): 1.05 PARTITION COEFFICIENT (n-octanol/water): Not determined **VISCOSITY:** Not determined

SECTION 10

STABILITY AND REACTIVITY

REACTIVITY: None under normal handling. CHEMICAL STABILITY: This material is considered to be stable under normal conditions of use and storage. INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents, strong acids, strong bases, aldehydes. CONDITIONS TO AVOID: None known HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon. HAZARDOUS REACTION/ POLYMERIZATION: Hazardous polymerization will not occur.

SECTION 11

TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Ethylene glycol: When ingested early symptoms may mimic alcohol inebriation and are followed by nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypocalcemic tetany and severe metabolic acidosis. Without treatment, death may occur. Victims who survive initial toxicity period usually develop renal failure along with brain and liver damage. Exposure to and/or consumption of alcohol may increase toxic effects.

ACUTE EFFECTS:

EYE CONTACT: May cause eye irritation. **SKIN CONTACT:** May be harmful if absorbed through skin. May cause skin irritation. **INHALATION:** May be harmful if inhaled. May cause respiratory tract irritation. **INGESTION:** May be harmful if swallowed.

TARGET ORGAN EFFECTS: No data available.

CHRONIC EFFECTS: No data available.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders, eye problems or impaired liver, kidney or respiratory function may be more susceptible to the effects of this substance.

ACUTE TOXICITY VALUES: There is no data available on this product as a whole.

COMPONENT DATA:

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Ethylene glycol (107-21-1)	4000 mg/kg (Rat)	10626 mg/kg (Rabbit)	No data available
Xanthan Gum (11138-66-2)	45000 mg/kg (Rat)	-	-
	20000 mg/kg (Mouse)		
Methyl paraben (99-76-3)	2.1 mg/kg (Rat)	-	-
Sodium nitrite (7632-00-0)	175 mg/kg (Mouse)	-	-
	85 mg/kg (Rat)		
Polyethylene (9002-88-4)	>3 g/kg (Rat)	-	-
	5 g/kg (Mouse)		

CARCINOGENICITY: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified.

U.S. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified.

U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified.

REPRODUCTIVE TOXICITY: Overexposure to ethylene glycol may cause reproductive disorder(s) based on tests with laboratory animals.

MUTAGENICITY: Sodium nitrite has tested positive in mammalian and non-mammalian in vitro assays. Proprietary Acid Dye: In vitro mutagen in animal tests.

TERATOGENICITY: Laboratory experiments of ethylene glycol have shown teratogenic effects. In reproductive studies, after female mice were fed sodium nitrite there was an increased number of fetal deaths.

SENSITIZATION: Not expected to be a sensitizer.

SINGLE TARGET ORGAN TOXICITY (Single Exposure): No data available.

SINGLE TARGET ORGAN TOXICITY (Repeated Exposure): No data available.

ASPIRATION HAZARD: No data available.

OTHER ADDITIONAL INFORMATION: Sodium nitrite is toxic by ingestion causing a reduction in oxygen carrying blood cells (methemoglobinemia), reduced blood pressure and cardiac effects.

SECTION 12

ECOLOGICAL INFORMATION

ECOTOXICITY: There is no data available for this product as a whole.

COMP	ONENT	DATA:	

Component	Fish	Invertebrates	Algae
Ethylene glycol	LC50-Onchorhynchus mykiss	NOEC- Daphnia: 24000	-
(107-21-1)	(Rainbow trout): 18,500 mg/L;96H	mg/L;48H	
	LC ₅₀ -Leuciscus idus (Golden orfe):	LC₅₀-Daphnia magna (Water	
	>10000 mg/L;48H	flea): 41000 mg/L;48H	
	NOEC-Pimephales promelas		
	(Fathead minnow): 32000 mg/L;7d		
	NOEC-Pimephales promelas		
	(Fathead minnow): 74000 mg/L;24H		
Xanthan Gum	LC ₅₀ = 420 mg/L;96H (Oncorhyncus	EC ₅₀ = 404 mg/L;48H	EC ₅₀ = >100 mg/L;72H
(11138-66-2)	mykiss (Rainbow trout))	(Daphnia magna (water flea))	(Pseudokirchneriella
	LC ₅₀ = 460-480 mg/L;96H		subcapitata (green algae))
	(Leuciscus idus (Golden orfe))		
Methyl paraben	LC ₅₀ (Fish)= 60 mg/L;96H (Oryzias	EC ₅₀ (Daphnia magna) = 36	EC ₅₀ (Pseudokirchneriella
(99-76-3)	(orange-red killfish))	mg/L;48H	subcapitata) = 91 mg/L;72H
Sodium nitrite	LC₅₀ (Fish)= 7.7 mg/L;96H	LC ₅₀ (Daphnia)= 12.5	-
(7632-00-0)		mg/L;48H	

ENVIRONMENTAL FATE: There is no data available on this product as a whole.

Ethylene glycol: when released into the soil, this material is expected to leach into groundwater and is not expected to evaporate significantly. When released into the water, this material is expected to readily biodegrade, and is expected to have a half-life of 1 and 10 days. When released into the air, this material is expected to be readily biodegraded, and is expected to have a half-life between 1 and 10 days.

Xanthan Gum: Biodegradation: 78%, Exposure time: 28d, Method: OECD Test Guideline 301F, Remarks: Readily biodegradable

Methyl paraben: Readily biodegradable. BOD (% of ThOD): 94% ThOD
Sodium nitrite: Harmful to aquatic organisms, contains runoff. Harmful to aquatic life in very low concentrations.
Polyethylene: This material is generally considered to be essentially non-biodegradable.
BIOACCUMULATIVE POTENTIAL: There is no data available on this product as a whole.
Ethylene glycol: Does not bioaccumulate.
Xanthan Gum: Partition coefficient (n-octanol/water): No data available. The product is miscible in water and readily biodegradable in both soil and water. Accumulation is not expected.

Methyl paraben: Log Pow: 1.96

SOIL MOBILITY: No specific data available.

OTHER ADVERSE ENVIRONMENTAL EFFECTS: No data available.

SECTION 13

DISPOSAL CONSIDERATIONS

RECOMMENDED DISPOSAL METHODS: Any product that cannot be saved for recovery or recycling should be disposed of in an approved waste facility in accordance with all local/state/national/international regulations.

SECTION 14

TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING DESCRIPTION: Not regulated INTERNATIONAL MARITIME ORGANIZATION (IMDG) SHIPPING DESCRIPTION: Not regulated FREIGHT CLASSIFICATION: Tire Puncture Sealing Compound (NMFC 50317 CLASS 70)

SECTION 15

REGULATORY INFORMATION

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT): All components of this product are either listed or exempted from the TSCA inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT): Spills of this product over the RQ (Reportable Quantity) must be reported to the National Response Center. The RQ for Ethylene Glycol (CAS# 107-21-1) is 5,000 lbs. Spills must be evaluated to calculate the total amount of Ethylene Glycol released. Report spills as required under Federal, State and local regulations. Sodium nitrite (CAS# 7632-00-0), final RQ= 100 pounds (45.4 kg).

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A):

Sodium Nitrite (CAS# 7632-00-0)

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: Ethylene Glycol (CAS# 107-21-1), Sodium Nitrite (CAS# 7632-00-0)

CLEAN WATER ACT (CWA): None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

CLEAN AIR ACT (CAA): CAS Number 107-21-1 (Ethylene Glycol) is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors. **OSHA HAZARD COMMUNICATION STANDARD:** When used for its intended purposes, this product is not hazardous according to 29 CFR 1910.1200.

STATE REGULATIONS:

California: This product contains the following chemicals known to the State of California to cause cancer or developmental effects:

Ethylene glycol (CAS# 107-21-1), developmental, Listed: June 19, 2015

Right-to-Know Lists:

Component	Massachusetts	Pennsylvania	New Jersey	Florida	Minnesota	Illinois	Rhode Island
Ethylene Glycol	X	Х	X	X	Х	X	Х
Sodium nitrite	X	Х	Х				

INTERNATIONAL REGULATIONS:

Component	Australia AICS	Canada DSL/NDSL	China IECSC	Japan ENCS	Korea KECL	Europe EINECS	New Zealand	Philippines PICCS
Ethylene glycol	X	X	X	X	Х	X	X	X
Xanthan Gum	Х	Х	Х	Х	Х	Х	Х	Х
Sodium nitrite		Х				Х		

REVISION INDICATOR: New SDS compliant with GHS AND OSHA. **DATE OF REVISION: 04/09/2018 SUPERSEDES: 04/28/2017**

DISCLAIMER: THIS INFORMATION IS BEING SUPPLIED TO YOU UNDER OSHA "RIGHT TO KNOW" REGULATION 29 CFR 1910.1200 AND IS OFFERED IN GOOD FAITH. THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE TRUE AND ACCURATE TO THE BEST OF OUR KNOWLEDGE. TEXAS REFINERY CORP. MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THIS DATE, THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL, OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. TEXAS REFINERY CORP. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE SAFE USE OF THIS MATERIAL IN YOUR PROCESS OR IN COMBINATION WITH OTHER SUBSTANCES. TEXAS REFINERY CORP. ASSUMES NO RESPONSIBILITY FOR DAMAGE OR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

Franklin International

Safety Data Sheet

Titebond Original Wood Glue

Section 1. Identification

GHS product identifier	: Titebond Original Wood Glue
Physical state	: Liquid.
Address	: Franklin International 2020 Bruck Street Columbus OH 43207
Contact person	: Franklin Technical Services
Telephone	: (800) 877-4583
In case of emergency	: Franklin Security (614) 445-1300
e-mail address of person responsible for this SDS	: SDS@FranklinInternational.com
Reference number	: 2213
Product code	: 5064
Date of revision	: 4/24/2018
Safety Data Sheets are available online at	: www.FranklinInternational.com
Chemtrec (24 Hour)	: (800) 424 - 9300
Chemtrec International	: +1 703-741-5970
Chemical family	: Adhesive.
Relevant identified uses of t	he substance or mixture and uses advised against

Identified uses

Industrial use wood glue.

Wide dispersive use of substances in professional and DIY adhesives.

Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
General	 Refer to safety data sheet before use. Avoid contact with skin and clothing. Wash thoroughly after handling. Get medical attention if needed. Contact Franklin International Technical Service for additional information at 1-800-877-4583.
Prevention	: Not applicable.
Response	: Not applicable.

Section 2. Hazards identification

Storage

Disposal

- : Not applicable.
- : Not applicable.
- Hazards not otherwise

classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	nmediately flush eyes with plenty of water, occasionally lifting the upper ar yelids. Check for and remove any contact lenses. Get medical attention i ccurs.	
Inhalation	emove victim to fresh air and keep at rest in a position comfortable for brenedical attention if needed.	eathing. Get
Skin contact	lush contaminated skin with plenty of water. Remove contaminated clothi hoes. Get medical attention if needed.	ng and
Ingestion	/ash out mouth with water. Remove victim to fresh air and keep at rest in omfortable for breathing. If material has been swallowed and the exposed onscious, give small quantities of water to drink. Do not induce vomiting u irected to do so by medical personnel. Get medical attention if needed.	d person is
Most important symptoms/e	<u>, acute and delayed</u>	
Potential acute health effect		
Eye contact	his product may irritate eyes upon contact.	
Inhalation	o known significant effects or critical hazards.	
Skin contact	o known significant effects or critical hazards.	
Ingestion	o known significant effects or critical hazards.	
Over-exposure signs/symp		
Eye contact	o specific data.	
Inhalation	o specific data.	
Skin contact	o specific data.	
Ingestion	o specific data.	
Indication of immediate med	ttention and special treatment needed, if necessary	
Notes to physician	reat symptomatically. Contact poison treatment specialist immediately if I uantities have been ingested or inhaled.	arge
Specific treatments	o specific treatment.	
Protection of first-aiders	o action shall be taken involving any personal risk or without suitable train	ing.
See toxicological informatic	ction 11)	

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage,	: Store between the following temperatures: 4.4444 to 32.222°C (40 to 90°F). Store in
including any	accordance with local regulations. Store in original container protected from direct
incompatibilities	sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see
-	Section 10) and food and drink. Keep container tightly closed and sealed until ready for
	use. Containers that have been opened must be carefully resealed and kept upright to
	prevent leakage. Do not store in unlabeled containers. Use appropriate containment to
	avoid environmental contamination. See Section 10 for incompatible materials before
	handling or use.

Section 8. Exposure controls/personal protection

Control parameters		
Occupational exposure limit	<u>ts</u>	
None.		
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>es</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Yellow.
Odor	: Faint odor.
Odor threshold	: Not available.
рН	: 3.8 to 4.7

Date of issue/Date of revision	:	4/24/2018
--------------------------------	---	-----------

Section 9. Physical and chemical properties

j		
Melting point	1	Not available.
Boiling point	1	98.889°C (210°F)
Flash point	1	Closed cup: Not applicable.
Evaporation rate	1	<1 (butyl acetate = 1)
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	;	Not available.
VOC (less water, less exempt solvents)	;	10.7 g/l
Volatility	1	54.1% (w/w)
Vapor density	1	Not available.
Relative density	1	1.0771
Solubility	1	Not available.
Solubility in water	1	Not available.
Partition coefficient: n- octanol/water	;	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	:	Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

- Eyes
- This product may irritate eyes upon contact.
 Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

Respiratory

Sensitization

Not available.

Mutagenicity

Not available.

Section 11. Toxicological information

	nogioal internation
Carcinogenicity Not available.	
Reproductive toxicity Not available.	
<u>Teratogenicity</u> Not available.	
Specific target organ toxicit Not available.	<u>y (single exposure)</u>
Specific target organ toxicit Not available.	<u>y (repeated exposure)</u>
Aspiration hazard Not available.	
Information on the likely routes of exposure	: Routes of entry anticipated: Oral, Inhalation. Routes of entry not anticipated: Dermal.
Potential acute health effects	È
Eye contact	: This product may irritate eyes upon contact.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
	sical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
	<u>ts and also chronic effects from short and long term exposure</u>
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Numerical measures of toxic	ity
Acute toxicity estimates	
Not available.	
	1/0//0010

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

<u>Mobility in soil</u>	
Soil/water partition coefficient (K _{oc})	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Version :1

Section 15. Regulatory information

U.S. Federal regulations

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ	: Not applicable.
-------------	-------------------

SARA 311/312

Classification

: Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.
<u>California Prop. 65</u>	

None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals	
Not listed.	

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

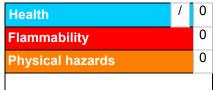
Inventory list

China United States TSCA 8(b) inventory : Not determined.

: All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Section 16. Other information

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification		Justification	
Not classified.			
<u>History</u>			
Date of printing	: 12/18/2019		
Date of issue/Date of revision	: 4/24/2018		
Date of previous issue	: 4/24/2018		
Version	: 1		
Key to abbreviations			
References	: Not available.		

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



TREE-äge® G4 Insecticide

Section 1. Identification

GHS product identifier	: TREE-äge [®] G4 Insecticide
Product use	: Insecticide.
Supplier's details	: Arborjet 99 Blueberry Hill Road Woburn, MA 01801, USA 1-781-935-9070
e-mail address of person responsible for this SDS	: ajinformation@arborjet.com
Emergency telephone number (with hours of operation)	: 1-800-255-3924 (CHEM-TEL)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Harmful if swallowed. Causes serious eye irritation.
Precautionary statements	
General	: Keep out of reach of children and pets.
Prevention	 Wear eye or face protection. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

: Mixture

: Not available.

CAS number/other identifiers

CAS number	: Not applicable.
Product code	: 040-4120
Ingredient name	

Ingredient name	%	CAS number
Trade Secret 1	Proprietary	-
Trade Secret 2	Proprietary	-
Tetrahydrofurfuryl alcohol	≥10 - <25	97-99-4
Emamectin Benzoate	≥3 - <5	155569-91-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove person to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove person to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. (See notes to physician) If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health	effects		
Eye contact	: Causes serious eye irritation.		
Inhalation	: No known significant effects or critical hazards.		
Skin contact	: No known significant effects or critical hazards.		
Ingestion	: Harmful if swallowed.		
Over-exposure signs/symptoms			

Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Early signs of intoxication include dilation of pupils, muscular incoordination and muscular tremors. Vomiting within one-half hour of exposure can minimize toxicity following accidental ingestion of the product; rapidly after exposure (<15 minutes) administer repeatedly medical charcoal in a large quantity of water or ipecac. If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since emamectin benzoate is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valporic acid) in patients with potentially toxic emamectin benzoate exposure

Specific treatments See notes to physician. See notes to physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing modia	
<u>Extinguishing media</u>	
Suitable extinguishing media	: Use dry chemical, foam or CO ₂ .
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide Irritating and/or toxic gases
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Date of issue/Date of revision

Date of previous issue : No pr

```
: No previous validation.
```

Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	 If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

r recautions for sale nationing	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Section 8. Exposure controls/personal protection

Trade Secret 1	None.
Trade Secret 2	AIHA WEEL (United States, 10/2011). TWA: 10 ppm 8 hours.
Tetrahydrofurfuryl alcohol	AIHA WEEL (United States, 10/2011). TWA: 0.5 ppm 8 hours.
Emamectin Benzoate	OEL of Manufacturer (United States) TWA: 0.02 mg/m ³
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	Ires
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Recommended: polymer laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton®.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	 Inhalation potential is low due to the application method. If vapors or mists are present wear NIOSH-approved air-purifying respirator with cartridges/canisters approved for use against pesticides
Section 9. Physic	al and chemical properties

Date of issue/Date of revision	: 04/08/2016 Date of previous issue : No previous validation. Version : 1 5/12
Boiling point	: Not available.
Melting point	: Not available.
рН	: 4.5 (1% solution in de-ionized H ₂ O @ 25°C [77°F])
Odor threshold	: Not available.
Odor	: Aromatic.
Color	: Blue.
Physical state	: Liquid.
<u>Appearance</u>	

Section 9. Physical and chemical properties

Flash point	1	Closed cup: >100°C (>212°F) [Pensky-Martens. (PMA-4)]
Evaporation rate	:	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.070 g/cm³ @ 20°C (68°F)
Solubility	:	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	;	19.7 mPa·s (19.7 cP) @ 20°C (68°F)

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Strong oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
TREE-äge® G4 Insecticide	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat - Female	1030 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
TREE-äge® G4 Insecticide	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Non-irritating to the skin.	Rabbit	-	-	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result
TREE-äge® G4 Insecticide	skin	Guinea pig	Not sensitizing

<u>Mutagenicity</u>

Not available.

Section 11. Toxicological information

Carcinogenicity

Emamectin Benzoate: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Reproductive toxicity

Emamectin Benzoate: Developmental and reproductive toxicity observed in dosages that are toxic to mature animals.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

: Not available.

Delayed and immediate effects and also chronic effects from short and long term exposure

effects	
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.

Short term exposure Potential immediate

Section 11. Toxicological information

Developmental effects Fertility effects : No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Trade Secret 1	Acute LC50 35000 µl/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 59900 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 7500 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 100 µl/L Marine water	Fish - Cyprinodon variegatus - Egg	28 days
Trade Secret 2	Acute LC50 10 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Emamectin Benzoate	EC50 >3.9 ppb	Algae	5 days
	Acute EC50 1 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 174 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.088 ppb Marine water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 6.5 ppb	Fish - Pimephales promelas	32 days

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil Soil/water partition : Not available. coefficient (Koc) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.
------------------	--

Date of issue/Date of revision	: 04/08/2016	Date of previous issue	: No previous validation.
--------------------------------	--------------	------------------------	---------------------------

Version :1

Section 13. Disposal considerations

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not determined.	Not determined.	Not determined.	UN3082	UN3082
UN proper shipping name	-	-	-	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Emamectin Benzoate), Marine Pollutant	ENVIRONMENTALL' HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Emamectin Benzoate), Marine Pollutant
Transport hazard class(es)	-	-	-	-	9	9
Label						
Packing group	-	-	-	-	111	111
Environmental hazards	-	-	-	-	Marine Pollutant: Yes	Yes.
Additional information					This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4. 1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Emergency</u> <u>schedules</u> (<u>EmS</u>) F-A, S-F <u>Special</u> <u>provisions</u> 274, 335, 969	This product is not regulated as a dangerous good when transported in sizes of ≤5 L o ≤5 kg, provided the packagings meet the general provisions of 5 0.2.4.1, 5.0.2.6 1.1 and 5.0.2.8 Passenger and Cargo Aircraft Quantity limitation: 450 Packaging instructions: 964 Cargo Aircraft Only Quantity limitation: 450 Packaging instructions: 964

. 4.5

Section 14.	Transport	informatio	on		
Section 14.	Transport		on		Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y964 Special provisions A97, A158, A197 Packing Auth.: 914 Note: Max. inner container
					5 liter; Max. single container 450 liter

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

5	5
U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): Not determined.
	FIFRA Information: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:
	CAUTION : Moderately irritating to the eye. Do not get in eyes or on clothing. Wear protective eyewear. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not determined.
Clean Air Act Section 602 Class I Substances	: Not determined.
Date of issue/Date of revision	: 04/08/2016 Date of previous issue : No previous validation. Version : 1 10/12

Section 15. Regulatory information

Clean Air Act Section 602 Class II Substances	:	Not determined.
DEA List I Chemicals (Precursor Chemicals)	:	Not determined.
DEA List II Chemicals (Essential Chemicals)	:	Not determined.
CVDV 303/304		

<u>SARA 302/304</u>

Composition/information on ingredients

No products were found.

SARA 304 RQ	: Not applicable.
-------------	-------------------

SARA 311/312

: Immediate (acute) health hazard

Classification

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Trade Secret 1	Proprietary	No.	No.	No.	Yes.	No.
Trade Secret 2	Proprietary	No.	No.	No.	Yes.	No.
Tetrahydrofurfuryl alcohol	≥10 - <25	Yes.	No.	No.	Yes.	No.
Emamectin Benzoate	≥3 - <5	No.	No.	No.	Yes.	No.

State regulations

Massachusetts	 The following components are listed: Trade Secret 2; TETRAHYDROFURFURYL ALCOHOL At least one component is not determined.
New York	: Not determined.
New Jersey	: Not determined.
Pennsylvania	 The following components are listed: Trade Secret 1; Trade Secret 2; 2-FURANMETHANOL, TETRAHYDRO- At least one component is not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



Section 16. Other information

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Class	sification	Justification	
ACUTE TOXICITY (oral) - C EYE IRRITATION - Categor		On basis of test data On basis of test data	
History			
Date of printing	: 04/08/2016		
Date of issue/Date of revision	: 04/08/2016		
Date of previous issue	: No previous issue.		
Version	: 1		
Key to abbreviations	BCF = Bioconcentration F GHS = Globally Harmoniz IATA = International Air T IBC = Intermediate Bulk (IMDG = International Mar LogPow = logarithm of th MARPOL = International	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)	
References	: Not available.		

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

There was a problem getting the SDS for -

Product Name: Sterile Water **CAS Number:** 7732-18-5 **Manufacturer:** Bio-Rad Laboratories, Life Science Group **SDS Date:** 1/4/2017

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

There was a problem getting the SDS for -

Product Name: SUPER SPEC LATEX HOUSE AND TRIM PAINT ULTRA BASE **CAS Number: Manufacturer:** Benjamin Moore & Co. **SDS Date:** 7/16/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

There was a problem getting the SDS for -

Product Name: SUPER SPEC INTERIOR 100% ACRYLIC SEMI-GLOSS ENAMEL DEEP BASE CAS Number: Manufacturer: Benjamin Moore & Co SDS Date: 4/9/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

SAFETY DATA SHEET

B31HV2010

Section 1. Identifie	cation
Product name	: PROMAR® 200 Interior Latex Eg-Shel Enamel
Product code	: B31HV2010
Other means of identification	: Not available.
Product type Relevant identified uses of t	: Liquid. he substance or mixture and uses advised against
Not applicable.	
Manufacturer	: THE SHERWIN-WILLIAMS COMPANY 101 Prospect Avenue N.W. Cleveland, OH 44115
Emergency telephone number of the company	: (216) 566-2917
Product Information Telephone Number	: Not available.
Regulatory Information Telephone Number	: (216) 566-2902
Transportation Emergency Telephone Number	: (800) 424-9300
Section 2. Hazard	s identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: May cause cancer. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention:Obtain special instructions before use. Do not handle until all safety precautions have
been read and understood. Wear protective gloves. Wear eye or face protection.
Wear protective clothing. Do not breathe vapor.Response:Get medical attention if you feel unwell. IF exposed or concerned: Get medical
attention.Storage:Store locked up.

DisposalDispose of contents and container in accordance with all local, regional, national and
international regulations.

Section 2. Hazards identification

Supplemental label elements	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure.
	Please refer to the SDS for additional information. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - <25	13463-67-7
2-(2-Butoxyethoxy)-ethanol	≥1 - <3	112-34-5
Ethylene Glycol	≥1 - <3	107-21-1
Cristobalite	≥0.1 - <0.3	14464-46-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary fire	st aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Date of issue/Date of revision	: 12/15/2015	Date of previous issue	: 11/5/2015	Version : 1.09	2/11
--------------------------------	--------------	------------------------	-------------	----------------	------

Section 4. First aid measures

Section 4. First alu measures				
Potential acute health effe	<u>cts</u>			
Eye contact	: No known significant effects or critical hazards.			
Inhalation	: No known significant effects or critical hazards.			
Skin contact	: No known significant effects or critical hazards.			
Ingestion	: No known significant effects or critical hazards.			
Over-exposure signs/sym	<u>otoms</u>			
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: No specific data.			
Ingestion	: No specific data.			
Indication of immediate me	dical attention and special treatment needed, if necessary			
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 			
Specific treatments	: No specific treatment.			
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.			

See toxicological information (Section 11)

Section 5. Fire-fighting measures

: Use an extinguishing agent suitable for the surrounding fire.
: None known.
: In a fire or if heated, a pressure increase will occur and the container may burst.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

 Personal precautions, protective equipment and emergency procedures

 For non-emergency personnel
 : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Date of issue/Date of revision	: 12/15/2015	Date of previous issue	:11/5/2015	Version : 1.09	3/11	
--------------------------------	--------------	------------------------	------------	----------------	------	--

Section 6. Accidental release measures

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
--

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up					
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.				
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.				

Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Titanium Dioxide	ACGIH TLV (United States, 3/2015).
	TWA: 10 mg/m ³ 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
2-(2-Butoxyethoxy)-ethanol	ACGIH TLV (United States, 3/2015).
	TWA: 10 ppm 8 hours. Form: Inhalable
	fraction and vapor
Ethylene Glycol	ACGIH TLV (United States, 3/2015).
	C: 100 mg/m ³ Form: Aerosol
Cristobalite	OSHA PEL Z3 (United States, 2/2013).
	TWA: 250 MPPCF / 2 x (%SiO2+5) 8 hours.
	Form: Respirable
	TWA: 10 MG/M3 / 2 x (%SiO2+2) 8 hours.
	Form: Respirable
	TWA: 30 MG/M3 / 2 x (%SiO2+2) 8 hours.
	Form: Total dust
	ACGIH TLV (United States, 3/2015).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable fraction
	NIOSH REL (United States, 10/2013).
	TWA: 0.05 mg/m ³ 10 hours. Form: respirable
	dust

Appropriate engineering controls	 If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>res</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Date of issue/Date of revision : 12	2/15/2015 <mark>Da</mark>	ate of previous issue :	11/5/2015	Version	:1.09	5/11
-------------------------------------	---------------------------	-------------------------	-----------	---------	-------	------

Section 8. Exposure controls/personal protection

Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	Liquid.	
Color	Not available.	
Odor	Not available.	
Odor threshold	Not available.	
рН	9	
Melting point	Not available.	
Boiling point	100°C (212°F)	
Flash point	Closed cup: >93.3°C (>199.9°F)	
Evaporation rate	0.09 (butyl acetate = 1)	
Flammability (solid, gas)	Not available.	
Lower and upper explosive (flammable) limits	Lower: 0.9% Upper: 15.3%	
Vapor pressure	0.31 kPa (2.333 mm Hg) [at 20°C]	
Vapor density	1 [Air = 1]	
Relative density	1.19	
Solubility	Not available.	
Partition coefficient: n- octanol/water	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Kinematic (room temperature): >0.205 cm²/s (>20.5 cSt) Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt)	
Molecular weight	Not applicable.	
Aerosol product		
Heat of combustion	1.348 kJ/g	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.

Date of issue/Date of revision	: 12/15/2015	Date of previous issue	: 11/5/2015	Version	:1.09	6/11
--------------------------------	--------------	------------------------	-------------	---------	-------	------

Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-Butoxyethoxy)-ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
Ethylene Glycol	LD50 Oral	Rat	4700 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
2-(2-Butoxyethoxy)-ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
Ethylene Glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	1 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440 milligrams	-
	Skin - Mild irritant	Rabbit	-	555 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
Cristobalite		1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-(2-Butoxyethoxy)-ethanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Ethylene Glycol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	 Route of exposure	Target organs
		Not determined Not determined

Aspiration hazard

Not available.

Information on the likely routes of exposure	: Not available.
Potential acute health effe	icts
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the p	physical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
<u>Delayed and immediate ef</u> <u>Short term exposure</u> Potential immediate	fects and also chronic effects from short and long term exposure : Not available.
effects	
Potential delayed effects Long term exposure	: Not available.
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health e	ffects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates Route ATE value Oral 146075.6 mg/kg Dermal 140762.9 mg/kg

Date of issue/Date of revision	: 12/15/2015	Date of previous issue	: 11/5/2015	Version : 1.09	8/11
--------------------------------	--------------	------------------------	-------------	----------------	------

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
Titanium Dioxide 2-(2-Butoxyethoxy)-ethanol Ethylene Glycol	Acute LC50 >1000000 μg/l Marine water Acute LC50 1300000 μg/l Fresh water Acute LC50 6900000 μg/l Fresh water	Fish - Fundulus heteroclitus Fish - Lepomis macrochirus Crustaceans - Ceriodaphnia	96 hours 96 hours 48 hours
	Acute LC50 41000000 µg/l Fresh water	dubia - Neonate Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8050000 μg/l Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-Butoxyethoxy)-ethanol Ethylene Glycol	-	-	Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Titanium Dioxide	-	352	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects	: No known significant effects or critical hazards.
-----------------------	---

Section 13. Disposal considerations

Disposal methods
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
ate of issue/Date of re	vision : 12/15/	2015 Date of previous	issue : 11/5/201	 5 Vor	sion : 1.09 9

Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	<u>Special</u> provisions Not Applicable	<u>Special</u> provisions Not Applicable	<u>Special</u> provisions Not Applicable	Special provisions Not Applicable	Emergency schedules (EmS) Not Applicable
Special procession		modal shipping day	printions are provide	d for informational	purposes and de pat
Fransport in bulk a to Annex II of MAR	consi mode suital prior respo unloa subst ccording : Not av POL	der container sizes. of transport (sea, a oly for that mode of t to shipment, and con onsibility of the perso iding dangerous goo ances and on all act	The presence of a s ir, etc.), does not inc ransport. All packag mpliance with the ap n offering the produ ds must be trained of	hipping description dicate that the produ- ing must be review plicable regulations ct for transport. Peo on all of the risks de	uct is packaged ed for suitability s is the sole ople loading and
Transport in bulk a to Annex II of MARI	consi mode suital prior respo unloa subst ccording : Not av POL Code	der container sizes. of transport (sea, a oly for that mode of t to shipment, and con onsibility of the perso iding dangerous goo ances and on all act	The presence of a s ir, etc.), does not inc ransport. All packag mpliance with the ap n offering the produ ds must be trained of	hipping description dicate that the produ- ing must be review plicable regulations ct for transport. Per on all of the risks de rgency situations.	for a particular uct is packaged ed for suitability s is the sole ople loading and
Special precaution Transport in bulk a to Annex II of MARI 73/78 and the IBC C	consi mode suital prior respo unloa subst ccording : Not av POL Code	der container sizes. of transport (sea, a bly for that mode of t to shipment, and con onsibility of the perso iding dangerous goo ances and on all act ailable.	The presence of a s ir, etc.), does not inc ransport. All packag npliance with the ap n offering the produ ds must be trained o ions in case of eme	hipping description licate that the produ- ing must be review oplicable regulations ct for transport. Peo on all of the risks de rgency situations.	for a particular uct is packaged ed for suitability is is the sole ople loading and

Section 15. Regulatory information

SARA 313

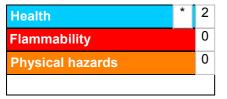
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Procedure used to derive the classification

Classification

Justification

Date of issue/Date of revision	: 12/15/2015	Date of previous issue	: 11/5/2015	Version	:1.09	10/11

Section 16. Other information

Carc.	1A, H3	350
STOT	RE 2,	H373

Calculation method Calculation method

<u>History</u>	
Date of printing	: 12/15/2015
Date of issue/Date of revision	: 12/15/2015
Date of previous issue	: 11/5/2015
Version	: 1.09
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Date of issue/Date of revision	: 12/15/2015 Date of previous issue	e : 11/5/2015 Version	:1.09 1	1/11
--------------------------------	-------------------------------------	-----------------------	---------	------