

SECTION 4 - First-aid measures

4.1 Description of first-aid measures

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact 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.

Skin Contact Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Ingestion Rinse mouth. Do NOT induce vomiting. If conscious give 2 glasses of water to dilute. Immediately call a poison center or doctor/physician.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms Causes serious eye damage.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically.

SECTION 5 - Fire-fighting measures

5.1 Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2). Foam. Dry chemical.

Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2 Specific Hazards Arising from the Chemical

Combustible liquid.

5.3 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.

SECTION 6 - Accidental release measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions : Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Methods for Containment : Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material.

Methods for Clean-Up : Use only non-sparking tools. Sweep up and shovel into suitable containers for disposal. For waste disposal, see section 13 of the SDS.

SECTION 7 - Handling and storage

7.1 Precautions for safe handling

Advice on Safe Handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection. Do not breathe 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. Ground/bond container and receiving equipment. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Keep cool.

7.2. Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions : Keep container tightly closed and store in a cool, dry and well-ventilated place. Avoid freezing while in storage.

Incompatible Materials : Strong oxidizing agents. Strong acids. Strong bases.

SECTION 8 - Exposure controls/personal protection

8.1 Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLK
Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m ³ (vacated) S* S*	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m ³ STEL: 150 ppm STEL: 900 mg/m ³
Glycol Ether EB 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Sodium metasilicate 6834-92-0	2 mg/m ³	2 mg/m ³	-

8.2 Appropriate Engineering Controls

Engineering Controls : Apply technical measures to comply with the occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location. Provide adequate ventilation.

8.3 Individual protection measures, such as personal protective equipment

Eye/Face Protection : Chemical goggles or full face shield. Refer to 29 CFR 1910.133 for eye and face protection regulations.
 Skin and Body Protection : Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.
 Respiratory Protection : If necessary, wear a MSHA/NIOSH-approved respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.
 General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear Liquid
Color	Clear
Property	Values
pH	11 - 12
Melting point / freezing point	Not determined
Boiling point / boiling range	100 °C / 212 °F
Flash point	> 71.1 / > 160
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Not determined
Flammability Limit in Air	
Upper flammability or explosive limits	Not determined
Lower flammability or explosive limits	Not determined
Vapour Pressure	Not determined
Vapour Density	Not determined
Relative Density	< 1 @ 20°C (68°F)
Water Solubility	>18g/100mL
Solubility(ies)	Not determined
Partition Coefficient	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined
Odor	Sweet
Odor Threshold	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Keep out of reach of children. Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6 Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information

Eye Contact	Causes serious eye damage.
Skin Contact	Causes severe skin burns.
Inhalation	May cause irritation to the mucous membranes and upper respiratory tract.
Ingestion	Can cause irritation and corrosive burns to mouth, throat, and stomach.

11.2 Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8	= 5400 µL/kg (Rat)	= 9500 mg/kg (Rabbit)	-
Glycol Ether EB	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Sodium metasilicate 6834-92-0	= 1153 mg/kg (Rat)	-	-

11.3 Information on physical, chemical and toxicological effects

Symptoms : Please see section 4 of this SDS for symptoms.

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

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Glycol Ether EB 111-76-2	A3	Group 3		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

11.5 Numerical measures of toxicity

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

ATEmix (oral)	: 7,946.00 mg/kg
ATEmix (dermal)	: 20,410.00 mg/kg
ATEmix (inhalation-dust/mist)	: 37.50 mg/L

SECTION 12: Ecological information

12.1 Toxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

12.2 Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8		10000: 96 h Pimephales promelas mg/L LC50 static	1919: 48 h Daphnia magna mg/L LC50
Glycol Ether EB 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
Sodium metasilicate 6834-92-0		210: 96 h Brachydanio rerio mg/L LC50 210: 96 h Brachydanio rerio mg/L LC50 semi-static	216: 96 h Daphnia magna mg/L EC50

12.3 Persistence / degradability

Not determined.

12.4 Bioaccumulative

Not determined.

12.5 Mobility

Chemical Name	Partition Coefficient
Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8	-0.064
Glycol Ether EB 111-76-2	0.81

12.6 Other adverse effects

Not determined.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Empty containers can retain product residues and shall be disposed in accordance with the provisions proposed for the product.

SECTION 14: Transport information

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT	Not regulated (If shipped in NON BULK packaging by ground transport)
IATA	Not regulated
IMDG	Not regulated

SECTION 15: Regulatory information

15.1 International Inventories

	TSCA	DSL/NDL	EINECS/ELINCS	INCS	IECSC	KECL	PICCS	AICS
Dipropylene Glycol Monomethyl Ether (DPM)	X	X	X	Present	X	Present	X	X
Glycol Ether EB	X	X	X	Present	X	Present	X	X
Sodium metasilicate	X	X	X	Present	X	Present	X	X

SECTION 15: Regulatory information

15.1 International Inventories

Legend

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

SECTION 15: Regulatory information

15.2 US Federal Regulations

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).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Name	CAS Number	% (weight)	SARA 313 - Threshold Values %
Dipropylene Glycol Monomethyl Ether (DPM)	34590-94-8	10 - 12	1.0
Glycol Ether EB	111-76-2	2 - 4	1.0

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)

15.3 US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

15.4 U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8	X	X	X
Glycol Ether EB 111-76-2	X	X	X

Section 16: OTHER INFORMATION

NFPA	HEALTH HAZARDS	FLAMMABILITY	INSTABILITY	SPECIAL HAZARDS
	Not determined	Not determined	Not determined	Not determined
HMIS	HEALTH HAZARDS	FLAMMABILITY	PHYSICAL HAZARDS	PERSONAL PROTECTION
	Not determined	Not determined	Not determined	Not determined

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Disclaimer

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End of Safety Data Sheet