SDS Preparation Date: 2020-03-26



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### SAFETY DATA SHEET

## 1. IDENTIFICATION

Product identifier used on the label

: Flottec X600-02 Defoamer

Recommended use of the chemical and restrictions on use

: Defoamer used in mining industry.

**Chemical family** : Polypropylene Glycol

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Flottec, LLC

2505 Collingsworth Street, 2nd Floor Houston, TX 77026 U.S.A.

Information Telephone # : 1-713-425-7055

: Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.) 24 Hr. Emergency Tel #

## 2. HAZARDS IDENTIFICATION

### Classification of the chemical

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200 or WHMIS2015.

#### Label elements

### Signal Word

N/A

## Hazard statement(s)

N/A

### Precautionary statement(s)

P101: If medical advice is needed, have product container or label at hand.

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

#### Hazard pictogram(s)

N/A

### Other hazards

N/A

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Common name	CAS#	Concentration / wt %	
Polypropylene Glycol	25322-69-4	>99	

## 4. FIRST-AID MEASURES

# Description of first aid measures

: DO NOT induce vomiting, unless recommended by medical personnel. Never give anything by Ingestion

mouth if victim is unconscious or convulsing. Seek medical attention or contact a Poison

Centre immediately.

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: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Inhalation

oxygen by trained personnel. If a problem develops or persists, seek medical attention.

Skin Contact : Flush with water for at least 15 minutes. Remove contaminated clothing and wash before

reuse. If a problem develops or persists, seek medical attention.

Eye Contact : IMMEDIATELY flush with plenty of water. Remove contact lenses. Flush with water for at least

15 minutes. Hold eyelids apart to rinse properly. If a problem develops or persists, seek

medical attention.

**Symptoms** : May cause redness and slight irritation of the skin and to eyes.

Notes to the physician Treat according to person's condition and specifics of exposure. If lavage is performed,

suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

# 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media

: Dry chemicals, water spray, chemical foam, carbon dioxide (CO2).

Unsuitable extinguishing media

: Do not use direct water jet.

#### Special hazards arising from the substance or mixture

: Non-Flammable. May be combustible at high temperature.

#### Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must wear self-contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.

Special fire-fighting procedures

: Use water spray to cool fire-exposed containers. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

: Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.

**Environmental precautions** 

: Prevent entry in sewer and other enclosed area. For a large spillage, consult the Department of Environment or the relevant authorities.

#### Methods and material for containment and cleaning up

: Remove sources of ignition. Ventilate the area well. Stop leak, if it's possible to do so without risk. Small spill - dilute with water and mop up. Then wash the contaminated surface with water. Large spill - Absorb with inert material (soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Finish cleaning by rinsing with soapy water the contaminated surface. Dispose via a licensed waste disposal contractor.

### 7. HANDLING AND STORAGE

: Use only in well ventilated area. Avoid contact with skin, eyes and clothing. Do not breathe Precautions for safe handling

vapors, mists or aerosols. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Keep in the workplace only the quantities necessary for the work being performed. Keep away from heat and open flame. Keep containers tightly closed when not used. Do not eat, do not drink and do not smoke during use. Wash hands, forearms and face thoroughly after handling this compound and before eating, drinking or using toilet articles. Remove contaminated clothing and wash before

Store tightly close and in properly labelled containers in a cool, dry and well ventilated place. Conditions for safe storage

Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep away from direct sunlight and heat. Store away from oxidizing materials and

incompatible materials (see section 10).

: 15 to 30 °C (59 to 86 F) Storage temperature

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Immediately Dangerous to Life or Health

: No IDLH value reported

**Exposure limits** 

Polypropylene glycol : TWA aerosol 10 mg/m3 **US WEEL** 

**Exposure controls** 

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas.

Respiratory protection

: Respiratory protection is not required in normal use. Respiratory protection equipment (PPE) must be selected, fitted, maintained and inspected in accordance with regulations and CSA

Standard Z 94.4 and approved by NIOSH / MSHA.

Skin protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. Wear an apron or long-sleeve protective coverall suit.

Eye / face protection

Boiling point/range

: Wear chemical splash goggles. If risk of contact with eyes or the face, wear a face shield.

Hands

Chemical-resistant, impervious gloves should be worn at all times when handling this chemical product. Wear nitrile gloves, neoprene gloves, butyl rubber gloves or multilayer polymer laminate gloves. Before using, user should confirm impermeability. Discard gloves that show tears, pinholes, or signs of wear. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and

dried thoroughly.

: Wear rubber boots to clean up a spill. Other protective equipment

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Flash point : >198 °C (390 F) MPCC : Liquid

Colour : Light to dark straw yellow **Auto-ignition temperature** : N/Av Odor : Plyglycol Sensibility to electrostatic charge: N/Av Odor threshold : N/Av Sensibility to sparks/friction : N/Av : 7-10 (5% aqueous) Vapor density (Air = 1) : >1

Relative density (Water = 1) Melting/Freezing point : -30 °C (-23 F) : 1.002kg/L @ 25 °C

Solubility : Slightly soluble in water

Evaporation rate (BuAc = 1) : N/Av

: N/Av **Decomposition temperature** : N/Av

Partition coefficient (n-octanol/water)

Vapor pressure : 2.62kPa (19.7 mmHg)

**Viscosity** : 305 - 335 mm<sup>2</sup>/s @ 25 °C (77 °F)

(77 F)

Volatiles (% by weight) : N/Av Flammability (solid, gas) : N/Ap Flammability limits (% by vol.) : N/Av

Molecular mass : N/Ap

# 10. STABILITY AND REACTIVITY

Reactivity : No information available for this product. Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions (including polymerizations)

: Hazardous polymerization will not occur.

Conditions to avoid : Avoid contact with incompatible materials.

Strong acids, strong bases, strong oxidizing agents (such as nitric acid, perchloric acid,

peroxides, chlorates and perchlorates), isocyanates.

Hazardous decomposition products

Incompatible materials

: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Decomposition products can include and are not limited to: Carbon dioxide. Alcohols. Ethers. Hydrocarbons. Ketones. Polymer fragments.

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### 11. TOXICOLOGICAL INFORMATION

## Toxicological data

Chemical name	LC <sub>50</sub>	LD₅₀ / mg/kg		
	(inh, rat)	(Oral, rat)	(Rabbit, dermal)	
Polypropylene Glycol	N/Av	>10000 (estimated)	>10000 (estimated)	

# Likely routes of exposure

Skin: YesEye: YesInhalation: YesIngestion: Yes

## Signs and symptoms of delayed, immediate and chronic effects:

Skin
May cause redness and slight irritation of the skin. Polypropylene glycol is not irritating.
Eye
May cause redness and slight irritation of the eyes. Polypropylene glycol is not irritating.

Inhalation : No known adverse affects under normal use conditions.

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

Sensitization to material : Did not cause allergic skin reactions when tested in humans.

IRAC/NTP Classification : No ingredients listed

Carcinogenicity : Ingredients present at levels greater than or equal to 0.1% of this product are not listed as a

carcinogen by IARC, ACGIH, NIOSH, NTP or OSHA.

Mutagenicity : Ingredients in this product present at levels greater than or equal to 0.1% are not known to

cause mutagenic effect.

Reproductive Effects : Ingredients in this product present at levels greater than or equal to 0.1% are not known to

cause effects on reproduction.

Specific target organ effects - single exposure

: No target organ is listed.

Specific target organ effects - repeated exposure

: No target organ is listed.

Other information : The oral acute toxicity estimate (ATE) of the mixture was estimated to be greater than 10000

mg/kg. The skin acute toxicity estimates (ATE) of the mixture was estimated to be greater

than 10000 mg/kg.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**: Material is practically non-toxic to fish on an acute basis (LC50 > 100 mg/L).

Persistence : No data available.

Degradability : Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Biodegradation may occur under anaerobic conditions (in the absence of oxygen).

Bioaccumulation potential : No bioconcentration is expected because of the relatively high molecular weight (MW greater

than 1000).

**Mobility in soil** : No data available.

Other adverse environmental effects

: This chemical does not deplete the ozone layer.

# 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** 

: Important! Prevent waste generation. Use in full. DO NOT puncture, cut, heat or burn container, even after use. DO NOT throw residual to sewer, streams, sewers or drinking water supply. Return empty container properly labeled to supplier or everywhere there is a recovery program. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.

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# 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group
DOT	Not regulated			
Additional	tional Information This material is not listed as a marine pollutant.			
TDG	Not regulated			
Additional Information				
IMO/IMDG	Not regulated			
Additional Information				
IATA	Not regulated			
Additional	Additional Information			

### 15 - REGULATORY INFORMATION

#### **US Federal Information:**

- Toxic Substance Control Act (TSCA):
- All ingredients are listed in the TSCA Inventory or otherwise comply with TSCA requirements.
- EPCRA Section 313 Toxic Chemicals:

No material is listed.

- CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

No material is listed.

- EPCRA Section 302/304 Extremely Hazardous Substances:

No material is listed.

- Clean Water Act (CWA) 311 Hazardous Substances:

No material is listed.

- Clean Water Act (CWA) Priority Pollutants:

No material is listed.

- Clean Air Act (CAA) 111:

No material is listed.

- Clean Air Act (CAA 112b) HON - Hazardous Organic National Emission Air Pollutants:

No material is listed.

- Clean Air Act (CAA 112b) HAP - Hazardous Air Pollutants:

No material is listed.

- CAA 112(r) Regulated Chemicals for Accidental Release Prevention:

No material is listed.

- California Proposition 65:

No material is listed.

### **Canadian Information:**

- Canada DSL and NDSL:

All ingredients are listed in the Domestic Substances List (DSL).

- Canadian National Pollutant Release Inventory Substances (NPRI):

No material is listed.

WHMIS 1988:

Not WHMIS controlled.

# NFPA



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## **16. OTHER INFORMATION**

Other special considerations for handling : Provide adequate information, instruction and training for operators.

Prepared by: Flottec, LLC Revised by: B. DeWald

**REASON FOR REVISION:** Section 1: Updated Flottec Address

#### **DISCLAIMER**

The above information is believed to be accurate and represents the best information currently available to us. However, we make no warrantee of merchantability or any other warrant, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular uses.

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