Zschimmer & Schwarz GHS Safety Data Sheet

MULSIFAN 600 DO

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1 - Product and Company Identification

Product name: Mulsifan 600 DO

Product type/usage/industry: Polyethylene Glycol 600 Dioleate

Manufacturer/Supplier Information: Zschimmer and Schwarz, Inc.

70 GA Hwy. 22 W Milledgeville, GA 31061 Phone: (478) 454-1942

Emergency contact: Company: (478) 454-1942

CHEMTREC (24HR): (800) 424-9300

2 - Hazards Identification

<u>Classification of the substance or mixture:</u> Classification of this substance/mixture is based on

29 CFR 1910.1200/HazCom 2012 (GHS-US)

Not classified

Labelling:

Signal Word: Hazard Symbols:

None None

Precautionary Statements: None

Key to Hazard Categories:

1=Severe Hazard 2=Serious Hazard 3=Moderate Hazard 4=Slight Hazard 5=Minimal Hazard

3 - Composition/Information on Ingredients

<u>CAS Number</u> <u>Material or component</u> <u>Avg % weight</u>

Poly(oxy-1,2-ethanediyl), α -(1-oxo-9-octadecenyl)-ω-((1-oxo-9-octadecenyl)oxy)- α - 100%

(Z,Z)-

This is not intended to be a complete compositional disclosure. Information provided pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200/ HazCom 2012). See Section 8 for Exposure Limits, if any.

4 - First Aid Measures

Eyes: Immediately flush with gentle but large stream of water for 15 min, lifting upper and lower eyelids occasionally. Get medical

attention if irritation develops.

Skin: Wash affected area with soap and water. If itching or redness develops, seek medical attention. Contaminated clothing should

be removed immediately and washed before reuse. Contaminated shoes should be discarded.

Inhalation: Move the person to fresh air. If breathing becomes difficult, contact a physician.

Ingestion: Do not induce vomiting. If large amounts were swallowed, give water to drink and get medical attention if you feel unwell.

5 - Firefighting Measures

Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Unsuitable Extinguishing Media: None known.

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and protective clothing when fighting any chemical fire.

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Unusual Fire & Explosion Hazards:

In case of fire, containers may explode from internal pressure. Cool with water. May emit

toxic fumes of CO and CO2 under fire conditions.

6 - Accidental Release Measures

Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from Personal precautions:

and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep

away from heat and sources of ignition.

Environmental precautions: P273: Avoid release to the environment

Limit leakage with earth or sand. Do not discharge into the drains/surface water/groundwater.

Dispose of absorbed material in accordance with local, state and federal regulations.

Methods for Containment/Cleaning Up: Take up with absorbent material (e.g. vermiculite, general purpose binder). Dispose of

absorbed material in accordance with local, state, and federal regulations.

7 - Handling and Storage

Handling: P261: Avoid breathing mists of product

P262: Do not get in eyes, on skin, or on clothing

P264: Wash thoroughly after handling P280: Wear protective gloves/eye protection

P402+404: Store in a dry place. Store in a closed container Storage:

P403+233: Store in a well-ventilated place. Keep container tightly closed

Protect from moisture. Store in cool dry places between 32°F (0°C) and 95°F (35°C).

Special Packaging Requirements: None known.

Incompatible Materials or Fire/Explosion

Protection:

Strong oxidizers, strong acids, and strong bases at high temperatures.

8 - Exposure Controls/Personal Protection

Personal Protective Equipment (PPE):

Hand Protection: Use impervious gloves.

Wear safety glasses with side shields or full face shield. **Eye Protection:**

Skin Protection: Wear protective clothing.

Respiratory Protection: Recommended if ventilation is limited.

Engineering Measures/Controls:

Ventilation: Ensure adequate ventilation to maintain product at acceptable airborne levels.

Other measures: Eye-wash station.

Exposure Limits/Guidelines:

Material CAS# **BASIS TYPE VALUE**

None

9 - Physical and Chemical Properties

Clear to slightly hazy, yellow to Form and Appearance: Odor: Faint amber liquid (25°C)

~ 6.0 @ 5% **Odor Threshold:** N/D pH:

Boiling Point: Melting/Freezing point: > 392°F (200°C) < 65°F (18.3°C) (titer pt.)

Vapor Pressure: < 0.01 mmHg @ 20°C Vapor Density (Air=1): N/A Flash Point: > 302°F (150°C) (COC) **Evaporation Rate:** < 0.01

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UEL: N/A LEL: N/A

Viscosity: N/D Solubility in Water: Dispersible Octanol/Water Partition Specific Gravity/ N/D ~ 1.00 Coefficient: **Bulk Density:** Auto-ignition temperature: N/D **Decomposition Temperature:** N/D **VOC Data:** Volatile content: < 1.0% N/D

10 - Stability and Reactivity

Chemical Stability: Product is stable under ordinary conditions of use and storage.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Exposure to moist air or water.

Incompatible Materials: Strong oxidizers, strong acids, and strong bases at high temperatures.

Hazardous Decomposition Products: Extremely high temperatures may produce CO_x; thermal decomposition may produce

irritating aldehydes.

11 - Toxicological Information

Acute Data:

Principle Routes of Exposure: Eye contact, skin contact, ingestion, inhalation (mist).

Acute Toxicity

 Route of exposure:
 Test type:
 Species:
 Results:
 Comments:

 Oral
 LD50
 Rat
 >2000 mg/kg

Dermal LD50 Rabbit >5000 mg/kg

Irritation and Corrosion

Target organ: Species: Results: Comments:

Eyes Rabbit Non-irritating Skin Rabbit Non-irritating -

<u>Sensitization</u>

Target organ: Species: Results: Comments:

Skin Human Not sensitizing -

Specific Target Organ Toxicity - Single Exposure

Target organ: Species: Results: Comments:

NDA -

Chronic Data:

Carcinogenicity

IARC NTP ACGIH OSHA

No No No No

Mutagenicity: NDA

Reproductive Effects: NDA

Target Organ Effects: NDA

12 - Ecological Information

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Species:	Test type:	Exposure time:	Results:	Comments:
Leuciscus idus	LC50	96h	N/D	Expected to possess low toxicity to aquatic organisms.
Daphnia magna	EC50	48h	N/D	-
Algae	EC50	72h	N/D	-

Environmental Fate

Persistence/Degradability: Product is moderately biodegradable.

COD/BOD5: NDA

Bioaccumulation Potential: No bioconcentration is expected because of the relatively high water solubility.

Mobility in Soil: NDA
Other Adverse Effects: NDA

13 - Disposal Considerations

Product: Dispose of absorbed material/content and/or container in accordance with local, state, federal

and/or international regulations.

Packaging: NDA

14 - Transport Regulations

US DOT Regulations (Land Transport):

Proper Shipping Name:

Hazard Class:

UN Number:

Packing Group:

Label Required:

Other Information:

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

IATA/ICAO Regulations (Air Transport):

Proper Shipping Name:

Hazard Class:

UN Number:

Packing Group:

Label Required:

Other Information:

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

IMDG/IMO Regulations (Maritime Transport):

Proper Shipping Name: Not regulated. **Hazard Class:** Not regulated. **UN Number:** Not regulated. **Packing Group:** Not regulated. Label Required: Not regulated. **EMS Number:** Not regulated. Segregation Groups: Not regulated. Marine Pollutant (Y/N): Not regulated. Other Information: Not regulated.

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15 - Regulatory Information

Domestic Regulations

Components requiring notification

 SARA 302 (TPQ)
 SARA 304 (RQ)
 SARA 313
 CERCLA (RQ)
 CAA 112(b) HAPS
 CAA 112(r)

 None
 None
 None
 None
 None
 None

SARA 311/312 Hazard Categorization:

None

State Information

California Proposition 65:

Chemicals which are known to the State of California to cause cancer, birth defects, or other reproductive harm.

State Right to Know/ Hazardous Substance List Information: The materials used to manufacture this product are guaranteed to contain less than the stated amount of the below items. However, based upon our further processing we expect the final product to not contain detectable quantities of any of these items.

Ethylene Oxide (75-21-8) (<10 ppm) 1,4-Dioxane (123-91-1) (<10 ppm) Ethylene glycol (107-21-1) (< 0.25%)

The following chemicals are present on one or more Right to Know/Hazardous Substance Lists for the states of MA, MN, NJ, PA and RI.

Ethylene Oxide (75-21-8) 1,4-Dioxane (123-91-1) Polyethylene glycols (25322-68-3) Ethylene glycol (107-21-1)

This is not an exhaustive list. For information on listings in other states, please consult that

state's RTK/HSL.

Chemical Inventories

United States	EUROPE (EINECS/	Australia (AICS)	Philippines (PICCS)	Canada		Korea (ECL)	Japan (ENCS/	China (IECSC)	New Zealand
(TSCA)	ELINCS/ NLP)			DSL	NDSL		ISHL)		(NZIoC)
Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

16 - Additional Information

Key to Abbreviations:

NDA - No data available N/D - Not determined N/A - Not applicable N/E - Not established

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