MULSIFAN 600 M1

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1 - Product and Company Identification

Product name: Mulsifan 600 M1

Product type/usage/industry: Polyethylene Glycol 600 Monomerate

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)

Acute Aquatic Toxicity Category 2 H401 Toxic to aquatic life

Labelling:

Signal Word: Hazard Symbols:

None None

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

P273: Avoid release to the environment.

P302+352: IF ON SKIN: Wash with plenty of soap and 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.

P314: Get medical advice/attention if you feel unwell.

Key to Hazard Categories:

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

3 - Composition/Information on Ingredients

CAS Number Material or component Avg % weight

354140-87-7 Fatty acids, C16-18 and C18-unsatd., branched and linear, esters with ~ 100%

polyethylene glycol

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.

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4 - First Aid Measures

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

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.

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

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

away from and upwind of spill/leak. Ensure adequate ventilation, especially in

confined areas.

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

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

> 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):

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Hand Protection: Use impervious gloves.

Eye Protection: Wear safety glasses with side shields.

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

Form and Appearance: Clear to hazy, yellow to amber Iiquid Odor: Fatty

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

Boiling Point: > 212°F (100°C) Melting/Freezing point: N/D

Vapor Pressure: $< 0.01 \text{ mmHg} @ 20^{\circ}\text{C}$ Vapor Density (Air=1):N/AFlash Point: $> 212^{\circ}\text{F} (100^{\circ}\text{C}) (COC)$ Evaporation Rate:< 0.01

UEL:N/ALEL:N/AViscosity:N/DSolubility in Water:Dispersible

Octanol/Water Partition

N/D

Specific Gravity/
~ 1.035 @ 25°C

Coefficient:

N/D

Bulk Density:

Decomposition
Temperature:

N/D

N/D

Volatile content: < 1.0% Temperature: N/D

VOC Data: 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).

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Acute Toxicity

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

Oral LD50 Rat >2000 mg/kg H303: May be harmful if (Derived from product of swallowed.

similar composition) swallor

Irritation and Corrosion

Target organ: Species: Results: Comments:

Eyes Rabbit Non-irritating -

Skin Rabbit Non-irritating -

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

Acute Aquatic Toxicity

Species: Test type: Exposure time: Results: Comments:

Fish LC50 96h 1 – 10 mg/l H401: Toxic to aquatic life

(Derived from product of similar composition)

(Derived from product of

Environmental Fate

Persistence/Degradability: Product is expected to be biodegradable.

COD/BOD5: NDA
Bioaccumulation Potential: NDA
Mobility in Soil: NDA
Other Adverse Effects: NDA

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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.

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.

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

SARA 311/312 Hazard Categorization: None

State Information

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California Proposition 65: May contain traces (< 10 ppm) of the following components known to the State of

California to cause cancer, birth defects, or other reproductive harm.

Ethylene Oxide (75-21-8) 1,4-Dioxane (123-91-1)

State Right to Know/ Hazardous Substance List Information:

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)

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	No	NDA	No	Yes	No	NDA	No	No

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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