## **MULSIFAN 600 MT**

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### 1 - Product and Company Identification

Product name: Mulsifan 600 MT

Product type/usage/industry: Polyethylene Glycol 600 Monotallate

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:** P273: Avoid release to the environment.

P501: Dispose of contents/container in accordance with local, state, and federal regulations.

**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<br/>61791-00-2Material or component<br/>Fatty acids, tall-oil, ethoxylatedAvg % weight<br/>~ 100%

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.

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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 CO<sub>2</sub> 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. 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

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):

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 slightly hazy, yellow to amber liquid Odor: Fatty

pH: ~ 6.5 @ 5% Odor Threshold: N/D

Boiling Point: > 347°F (175°C) Melting/Freezing point: < 68°F (20°C) (titer pt.)

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Vapor Pressure: Vapor Density (Air=1): N/A < 0.1 mmHg @ 20°C > 302°F (150°C) (COC) Flash Point: **Evaporation Rate:** < 0.01 UEL: LEL: N/A N/A N/D Viscosity: Solubility in Water: Dispersible Octanol/Water Partition

 Octanol/Water Partition
 ~5.94 (lit.)
 Specific Gravity/Bulk Density:
 ~1.04

 Auto-ignition temperature:
 N/D
 Decomposition Temperature:
 N/D

 Volatile content:
 < 1.0%</th>
 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<sub>x</sub>; 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
 >5000 mg/kg

Dermal NDA

**Irritation and Corrosion** 

Target organ: Species: Results: Comments:

Eyes Rabbit Non-irritating Skin Rabbit Non-irritating -

Sensitization

Target organ: Species: Results: Comments:

Skin Human No effects known -

Specific Target Organ Toxicity - Single Exposure

Target organ: Species: Results: Comments:

None -

**Chronic Data:** 

Carcinogenicity

IARC NTP ACGIH OSHA

No No No

Mutagenicity: NDA

Reproductive Effects: NDA

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Target Organ Effects: NDA

12 - Ecological Information

**Acute Aquatic Toxicity** 

Species: Test type: **Exposure time:** Results: Comments: Brachydanio rerio LC50 96h Toxic aquatic life ~7.8 mg/l Daphnia magna EC50 48h 16 mg/l Harmful to aquatic life EC50 72h Harmful to aquatic life Algae >44 mg/l

**Environmental Fate** 

Persistence/Degradability: Product is readily biodegradable.

80 - 90% in 15d

COD/BOD5: NDA

**Bioaccumulation Potential:** Product has the potential to bioaccumulate.

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: Not regulated.

Hazard Class: - UN Number: -

Packing Group: - Label Required:

Other Information: -

IATA/ICAO Regulations (Air Transport):

Proper Shipping Name: Not regulated.

Hazard Class: - UN Number: - Packing Group: - Label Required: -

Other Information:

IMDG/IMO Regulations (Maritime Transport):

Proper Shipping Name: Not regulated.

Hazard Class: - UN Number: Packing Group: - Label Required: EMS Number: - Segregation Groups: -

Marine Pollutant (Y/N): Other Information: -

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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: 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 (TSCA)	EUROPE (EINECS/ ELINCS/ NLP)	Australia (AICS)	Philippines (PICCS)	Canada		Korea (ECL)	Japan (ENCS/ ISHL)	China (IECSC)	New Zealand (NZIoC)
				DSL	NDSL		iont)		
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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