# **MULSIFAN 400 DL**

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# 1 - Product and Company Identification

Product name: Mulsifan 400 DL

Product type/usage/industry: Polyethylene Glycol 400 Dilaurate

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

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

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

Poly(oxy-1,2-ethanediyl),- $\alpha$ -(1-oxododecyl)- $\omega$ -((1-oxododecyl)oxy)

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

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

Get medical attention if symptoms persist.

**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 rinse mouth, 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

Special Protective Equipment for Sel

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.

**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.

Special Packaging Requirements: None known.

Incompatible Materials or Fire/Explosion

Protection:

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

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## 8 - Exposure Controls/Personal Protection

Personal Protective Equipment (PPE):

**Hand Protection:** Use impervious gloves.

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

**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, colorless to pale yellow Iquid Odor: Faint

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

Boiling Point: N/D Melting/Freezing point: ~ 68°F (20°C)

 Vapor Pressure:
 < 0.01 mmHg @ 20°C</td>
 Vapor Density (Air=1):
 N/D

 Flash Point:
 > 455°F (235°C) (COC) (lit.)
 Evaporation Rate:
 N/D

 UEL:
 N/A
 LEL:
 N/A

Viscosity:N/DSolubility in Water:DispersibleOctanol/Water Partition<br/>Coefficient:Specific Gravity/<br/>Bulk Density: $\sim 1.00 @ 25^{\circ}C$ 

Auto-ignition temperature: N/A Decomposition Temperature: N/D Volatile content: < 1.0% 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.

**Target Organ Effects:** 

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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		-					
Irritation and Corrosio	<u>on</u>										
Target organ:	Species:	Re	sults:		Comments:						
Eyes	Rabbit	No	n-irritating		-						
Skin	Rabbit	No	n-irritating		-						
<u>Sensitization</u>											
Target organ:	Species:	Re	sults:		Comments:						
Skin	Human	No	Not sensitizing		-						
Specific Target Organ	Toxicity - Single Ex	<u>xposure</u>									
Target organ:	Species:	Re	sults:		Comments:						
None					-						
Chronic Data:											
Carcinogenicity											
IARC	NTP		ACGIH		os	НА					
No	No		No		No						
Mutagenicity:		NDA									
Reproductive Effects:		NDA									

NDA

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12 - Ecological Information

**Acute Aquatic Toxicity** 

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

NDA Not toxicity expected

**Environmental Fate** 

**Persistence/Degradability:** Product is moderately biodegradable.

COD/BOD5: NDA

**Bioaccumulation Potential:** No bioaccumulation is expected.

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

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# **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.

## IMDG/IMO Regulations (Maritime Transport):

**Proper Shipping Name:** Not regulated. **Hazard Class:** Not regulated. **UN Number:** Not regulated. Not regulated. **Packing Group:** 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 None

SARA 311/312 Hazard Categorization:

**State Information** 

California Proposition 65:

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

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%)

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) 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 (Polymer)	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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