# **MULSIFAN 600 DO-VEG**

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### 1 - Product and Company Identification

Product name: Mulsifan 600 DO-VEG

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: 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

rinsina.

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

9005-07-6 Poly(oxy-1,2-ethanediyl),  $\alpha$  -(1-oxo-9-octadecenyl)- $\omega$ -((1-oxo-9-

octadecenyl)oxy)-(Z,Z)-

~ 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.

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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 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. 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.

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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 to slightly hazy, yellow to amber liquid (25°C) Odor:

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

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

Vapor Pressure: $< 0.01 \text{ mmHg} @ 20^{\circ}\text{C}$ Vapor Density (Air=1):N/AFlash Point: $> 302^{\circ}\text{F} (150^{\circ}\text{C}) (COC)$ Evaporation Rate:< 0.01UEL:N/ALEL:N/A

Viscosity: N/D Solubility in Water: Dispersible **Octanol/Water Partition** Specific Gravity/ N/D ~ 1.00 Coefficient: **Bulk Density:** Decomposition **Auto-ignition temperature:** N/D N/D Temperature: 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.

**Chronic Data:** 

Carcinogenicity

Mutagenicity:

**Reproductive Effects:** 

**Target Organ Effects:** 

NTP

No

IARC

No

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e: Species: Rat Rabbit : Result:	Results:  >2000 mg/kg >5000 mg/kg	Comments:
Rat Rabbit	>2000 mg/kg >5000 mg/kg	Comments:
Rat Rabbit	>2000 mg/kg >5000 mg/kg	Comments:
Rabbit	>5000 mg/kg	-
: Result:		
: Results	_	
	s: Co	mments:
Non-irri	itating -	
Non-irri	ritating -	
: Results	s: Co	mments:
Not ser	nsitizing -	
Single Exposure		
: Results	s: Co	mments:
	: Result  Not se	Non-irritating -  Results: Co  Not sensitizing -

NDA

NDA

NDA

**ACGIH** 

No

OSHA

No

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### 12 - Ecological Information

Acute Aquatic Toxicity
------------------------

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

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### **14 - Transport Regulations**

### **US DOT Regulations (Land Transport):**

Proper Shipping Name: Not regulated.
Hazard Class: Not regulated.
UN Number: Not regulated.
Packing Group: Not regulated.
Label Required: Not regulated.
Other Information: 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

SARA 311/312 Hazard Categorization: None

**State Information** 

California Proposition 65: May contain traces (< 100 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) (trace amounts, if any) 1,4-Dioxane (123-91-1) (trace amounts, if any)

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	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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