## **MULSIFAN STO-20**

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## 1 - Product and Company Identification

Product name: Mulsifan STO-20

Product type/usage/industry: Polyoxyethylene (20) Sorbitan Trioleate

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

CAS Number Material or component Avg % weight

9005-70-3 Polyoxyethylene sorbitan trioleate ~ 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 rinse mouth 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 CO<sub>2</sub> under fire conditions.

6 - Accidental Release Measures

Personal precautions: Avoid breathing mists of product. Do not get in eyes, on skin, or on clothing. Wash

thoroughly after handling. Wear protective gloves/eye protection.

**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:

Incompatible Materials or Fire/Explosion

Protection:

None known.

Strong oxidizers.

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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.

**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: Faint

pH: ~ 6.0 @ 5% Odor Threshold: N/D **Boiling Point:** > 450°F (232°C) (COC) Melting/Freezing point: N/D **Vapor Pressure:** < 0.01 mmHg @ 20°C Vapor Density (Air=1): N/A Flash Point: ~ 450°F (232°C) (COC) **Evaporation Rate:** < 0.01

UEL: N/A LEL: N/A

 Viscosity:
 N/D
 Solubility in Water:
 Dispersible

 Octanol/Water Partition Coefficient:
 N/D
 Specific Gravity/ Bulk Density:
 ~ 1.00

 Auto-ignition 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.

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 Rout	tes of Exposure:	Eye contact, skin contact, ingestion, inhalation (mist).									
Acute Toxicity											
Route of exposure:	Test type:	Species:	Results:	Comments:							
Oral	LD50	Rat	>5,000 mg/kį	<del>-</del>							
Irritation and Corrosio	n										
Target organ:	Species:	Results:		Comments:							
Eyes	Rabbit	Slight irritation	possible	-							
Skin	Rabbit	Non-irritating		-							
<u>Sensitization</u>											
Target organ:	Species:	Results:		Comments:							
Skin	Human	No effects kno	wn	-							
Specific Target Organ Toxicity – Single Exposure											
Target organ:	Species:	Results:		Comments:							
None				-							
Chronic Data:											
Carcinogenicity											
IARC	NTP	AC	CGIH	OSHA							
No	No	No	)	No							
Mutagenicity:		No effects									
Reproductive Effects:		No effects									

NDA

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12 - Ecological Information

**Acute Aquatic Toxicity** 

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

Rainbow trout LC50 96h - No toxicity reported for any

organisms at water solubility

limit.

**Environmental Fate** 

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

COD/BOD5: NDA

**Bioaccumulation Potential:** No bioconcentration 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. **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®

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:

Substance Lists for the states of MA, MN, NJ, PA and RI.

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

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

The following chemicals are present on one or more Right to Know/Hazardous

state's RTK/HSL.

**Chemical Inventories** 

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