

1 - Product and Company Identification

Product name: Mulsifan 600 ST
Product type/usage/industry: Polyethylene Glycol 600 Sesquitalate
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

Classification of the substance or mixture: Classification of this substance/mixture is based on
29 CFR 1910.1200/HazCom 2012 (GHS-US)

Not classified

Labelling:

Signal Word:

None

Hazard Symbols:

None

Precautionary Statements: None

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>
61791-30-8	Fatty acids, tall-oil, sesquiesters with polyethylene glycol	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 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 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.
Special Packaging Requirements: None known.
Incompatible Materials or Fire/Explosion Protection: Strong oxidizers.

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, yellow to amber liquid
Odor: Fatty

pH:	~ 6.5 @ 5%	Odor Threshold:	N/D
Boiling Point:	> 392°F (200°C)	Melting/Freezing point:	N/D
Vapor Pressure:	N/D	Vapor Density (Air=1):	N/D
Flash Point:	> 392°F (200°C)	Evaporation Rate:	N/D
UEL:	N/D	LEL:	N/D
Viscosity:	N/D	Solubility in Water:	Dispersible
Octanol/Water Partition Coefficient:	N/D	Specific Gravity/ Bulk Density:	~ 1.00 @ 25°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.
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).

Acute Toxicity

Route of exposure:	Test type:	Species:	Results:	Comments:
Oral	LD50	Rat	>5000 mg/kg	-
Dermal	LD50	Rabbit	>10000 mg/kg	-

Irritation and Corrosion

Target organ:	Species:	Results:	Comments:
Eyes	Rabbit	Mild irritation possible	-
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	No

Mutagenicity: NDA
Reproductive Effects: NDA
Target Organ Effects: NDA

12 - Ecological Information

Acute Aquatic Toxicity

Species:	Test type:	Exposure time:	Results:	Comments:
NDA				Not expected to be acutely toxic to aquatic life

Environmental Fate

Persistence/Degradability: Product is moderately biodegradable.
COD/BOD5: NDA
Bioaccumulation Potential: NDA
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: -

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)
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				
Yes	Yes	Yes	No	Yes	No	Yes	No	Yes	No

16 - Additional Information

Key to Abbreviations:

NDA - No data available N/D - Not determined N/A - Not applicable N/E - Not established

THE INFORMATION PRESENTED IN THIS MATERIAL SAFETY DATA SHEET (MSDS/SDS) WAS PREPARED BY TECHNICAL PERSONNEL BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH JUDGMENT IS ACCURATE. HOWEVER, THE INFORMATION PROVIDED HEREIN IS PROVIDED "AS IS," AND ZSCHIMMER & SCHWARZ INC. MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. THIS MSDS/SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS MSDS/SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, ZSCHIMMER & SCHWARZ, INC. ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. ZSCHIMMER & SCHWARZ INC. REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS MSDS/SDS AVAILABLE TO YOUR EMPLOYEES. EXISTING ACTS AND REGULATIONS MUST BE OBSERVED BY THE RECIPIENT OF OUR PRODUCTS UNDER THEIR OWN RESPONSIBILITY.

Date of Issue: May 1, 2018

Date of last revision: -