

# MULSIFAN 600 MHCFA

Revision Date: May 26, 2015

Version: 1.1  
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## 1 - Product and Company Identification

**Product name:** Mulsifan 600 MHCFA

**Product type/usage/industry:** Polyethylene Glycol 600 Monococoate

**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:**

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

<b><u>CAS Number</u></b>	<b><u>Material or component</u></b>	<b><u>Avg % weight</u></b>
61791-29-5	Polyethylene glycol monococoate	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**

<b>Eyes:</b>	Immediately flush with gentle but large stream of water for 15 min, lifting upper and lower eyelids occasionally. Get medical attention if symptoms persist.
<b>Skin:</b>	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.
<b>Inhalation:</b>	Move the person to fresh air. If breathing becomes difficult, contact a physician.
<b>Ingestion:</b>	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**

<b>Extinguishing Media:</b>	Water spray, dry chemical, alcohol foam, or carbon dioxide.
<b>Unsuitable Extinguishing Media:</b>	None.
<b>Special Protective Equipment for Firefighters:</b>	Self-contained breathing apparatus and protective clothing when fighting any chemical fire.
<b>Unusual Fire &amp; Explosion Hazards:</b>	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**

<b>Personal precautions:</b>	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.
<b>Environmental precautions:</b>	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.
<b>Methods for Containment/Cleaning Up:</b>	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**

<b>Handling:</b>	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
<b>Storage:</b>	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.
<b>Special Packaging Requirements:</b>	None known.
<b>Incompatible Materials or Fire/Explosion Protection:</b>	Strong oxidizers, strong acids, and strong bases at high temperatures.

## 8 - Exposure Controls/Personal Protection

### Personal Protective Equipment (PPE):

<b>Hand Protection:</b>	Use impervious gloves.
<b>Eye Protection:</b>	Wear safety glasses with side shields or full face shield.
<b>Skin Protection:</b>	Wear protective clothing.
<b>Respiratory Protection:</b>	Recommended if ventilation is limited.

### Engineering Measures/Controls:

<b>Ventilation:</b>	Ensure adequate ventilation to maintain product at acceptable airborne levels.
<b>Other measures:</b>	Eye-wash station.

### Exposure Limits/Guidelines:

Material	CAS #	BASIS	TYPE	VALUE
None				

## 9 - Physical and Chemical Properties

<b>Form and Appearance:</b>	Clear, colorless to pale yellow liquid	<b>Odor:</b>	Faint
<b>pH:</b>	~ 6.5 @ 5%	<b>Odor Threshold:</b>	N/D
<b>Boiling Point:</b>	> 500°F (260°C)	<b>Melting/Freezing point:</b>	N/D
<b>Vapor Pressure:</b>	< 0.01 mmHg @ 20°C	<b>Vapor Density (Air=1):</b>	N/D
<b>Flash Point:</b>	> 520°F (271°C) (COC)	<b>Evaporation Rate:</b>	<0.01
<b>UEL:</b>	N/A	<b>LEL:</b>	N/A
<b>Viscosity:</b>	N/D	<b>Solubility in Water:</b>	Dispersible
<b>Octanol/Water Partition Coefficient:</b>	N/D	<b>Specific Gravity/ Bulk Density:</b>	~ 1.04 @ 25°C
<b>Auto-ignition temperature:</b>	N/A	<b>Decomposition Temperature:</b>	N/D
<b>Volatile content:</b>	< 1.0%	<b>VOC Data:</b>	N/D

## 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Product is stable under ordinary conditions of use and storage.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	Exposure to moist air or water.
<b>Incompatible Materials:</b>	Strong oxidizers, strong acids, and strong bases at high temperatures.
<b>Hazardous Decomposition Products:</b>	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**

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

#### **Irritation and Corrosion**

<b>Target organ:</b>	<b>Species:</b>	<b>Results:</b>	<b>Comments:</b>
Eyes	Rabbit	Non-irritating	-
Skin	Rabbit	Non-irritating	-

#### **Sensitization**

<b>Target organ:</b>	<b>Species:</b>	<b>Results:</b>	<b>Comments:</b>
Skin	Human	Not sensitizing	-

#### **Specific Target Organ Toxicity – Single Exposure**

<b>Target organ:</b>	<b>Species:</b>	<b>Results:</b>	<b>Comments:</b>
None			-

#### **Chronic Data:**

#### **Carcinogenicity**

<b>IARC</b>	<b>NTP</b>	<b>ACGIH</b>	<b>OSHA</b>
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 toxicity expected

### **Environmental Fate**

<b>Persistence/Degradability:</b>	Product is moderately biodegradable.
<b>COD/BOD5:</b>	NDA
<b>Bioaccumulation Potential:</b>	No bioaccumulation is expected because of the relatively high water solubility.
<b>Mobility in Soil:</b>	NDA
<b>Other Adverse Effects:</b>	NDA

## **13 - Disposal Considerations**

<b>Product:</b>	Dispose of absorbed material/content and/or container in accordance with local, state, federal and/or international regulations.
<b>Packaging:</b>	NDA

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<b>14 - Transport Regulations</b>
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**US DOT Regulations (Land Transport):**

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

**IATA/ICAO Regulations (Air Transport):**

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

**IMDG/IMO Regulations (Maritime Transport):**

<b>Proper Shipping Name:</b>	Not regulated.
<b>Hazard Class:</b>	Not regulated.
<b>UN Number:</b>	Not regulated.
<b>Packing Group:</b>	Not regulated.
<b>Label Required:</b>	Not regulated.
<b>EMS Number:</b>	Not regulated.
<b>Segregation Groups:</b>	Not regulated.
<b>Marine Pollutant (Y/N):</b>	Not regulated.
<b>Other Information:</b>	Not regulated.

## 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	Yes	Yes	No	Yes	NDA	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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Date of Issue: April 1, 2015

Date of last revision: May 26, 2015