MULSIFAN RT 410 G

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1 - Product and Company Identification

Product name: Mulsifan RT 410 G

Product type/usage/industry: Surfactant raw material

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)

Serious Eye Damage/Irritation Category 1 H318 Causes serious eye damage

Acute Aquatic Toxicity Category 2 H401 Toxic to aquatic life

Labelling:

Signal Word: Hazard Symbols:

DANGER!



Precautionary Statements: P273: Avoid release to the environment.

P280: Wear eye protection/face protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do – continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

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

 68439-50-9
 Alcohols, C12-14, ethoxylated
 >10%

 9043-30-5
 Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy >1%

 68920-66-1
 Alcohols, C16-18 and C18 unsatd., ethoxylated
 >1%

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 immediate medical advice/attention.

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 drink. Get medical

attention if you feel unwell.

5 - Firefighting Measures

Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Unsuitable Extinguishing Media: Water jet.

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/face 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:

Incompatible Materials or Fire/Explosion

Protection:

None known.

None known.

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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: Yellowish-brown liquid Odor: Characteristic

pH: $\sim 7.0 \ @ \ 10\%$ Odor Threshold: N/D

Boiling Point: >374°F (190°C) (lit.) Melting/Freezing point: ~21°F (-6°C) (lit.)

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

 Flash Point:
 > 212°F (100°C) (COC)
 Evaporation Rate:
 N/D

 UEL:
 N/A
 LEL:
 N/A

Viscosity: ~100 cps @ 20°C Solubility in Water: Miscible

Octanol/Water Partition
Coefficient:

N/D

Specific Gravity/
Bulk Density:

~ 0.98 @ 20°C

 Auto-ignition temperature:
 N/D
 Decomposition Temperature:
 N/D

 Volatile content:
 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, excessive heat.

Incompatible Materials: None known.

Hazardous Decomposition Products: Extremely high temperatures may produce CO_x.

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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
 > 2000 mg/kg
 H303: May be harmful if swallowed

Irritation and Corrosion

 Target organ:
 Species:
 Results:
 Comments:

 Eyes
 Rabbit
 Severely irritating
 Irreversible eye damage possible

 Skin
 Rabbit
 Non-irritating
 Has a degreasing effect on skin

Sensitization

 Target organ:
 Species:
 Results:
 Comments:

 Skin
 Human
 No effects known

Specific Target Organ Toxicity - Single Exposure

Target organ: Species: Results: Comments:

Chronic Data:

NDA

Carcinogenicity

 IARC
 NTP
 ACGIH
 OSHA

 No
 No
 No
 No

Mutagenicity: NDA

Reproductive Effects: NDA

Target Organ Effects: NDA

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12 - Ecological Information

Acute Aquatic Toxicity

Species:	Test type:	Exposure time:	Results:	Comments:
Rainbow trout	LC50	96h	1 – 10 mg/l	H401: Toxic to aquatic life
Daphnia magna	EC50	48h	1 – 10 mg/l	H401: Toxic to aquatic life
Algae	EC50	72h	1 – 10 mg/l	H401: Toxic to aquatic life

Environmental Fate

Persistence/Degradability: Product is readily 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

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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(r)

None None None None None None

SARA 311/312 Hazard Categorization: Acute Health Hazard

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**

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)

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

consult that state's RTK/HSL.

Chemical Inventories

Information:

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	NDA	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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