| | <u>I - Floudel al</u> | nd Company | | Jation | | | |
|--|--|---|---|--|----------------------------------|--|--|
| Product name: | | Mulsifan TEAO | fan TEAO | | | | |
| Product type/usage/industry: | Triethanolamine Monooleate Ester | | | | | | |
| Manufacturer/Supplier Information: Emergency contact: | | Zschimmer and Schwarz, Inc. 70 GA Hwy. 22 W Milledgeville, GA 31061 Phone: (478) 454-1942 | | | | | |
| | | Company: CHEMTREC (24HR): | | (478) 454-1942 (800) 424-9300 | | | |
| | <u>2 – Ha</u> | zards Identif | cation | | | | |
| Classification of the substant | ce or mixture: | | | this substance/m 200/HazCom 201 | ixture is based on 2 (GHS-US) | | |
| Serious Eye Damage/Irritation | Category 2A | H319 | Causes | s serious eye irrita | ation | | |
| Skin Corrosion/Irritation | H315 | Causes | Causes skin irritation | | | | |
| Labelling: | | | | | | | |
| Signal Word: | Haza | ard Symbols: | | | | | |
| WARNING! | | | | | | | |
| | < | | | | | | |
| Precautionary Statements: | P264: Wash thoroug P280: Wear protecti P305+351+338: IF I contact lenses if pre P337+313: If eye irri P302+352: IF ON SI P332+313: If skin irr P362+364: Take off | ve gloves/eye pr N EYES: Rinse sent and easy to itation persists g KIN: Wash with itation occurs: G | otection/fa cautiously do – cont et medical blenty of so et medical | with water for sevinue rinsing. advice/attention. oap and water. advice/attention | | | |
| - | P280: Wear protecti P305+351+338: IF I contact lenses if pre P337+313: If eye irri P302+352: IF ON SI P332+313: If skin irr | ve gloves/eye pr N EYES: Rinse sent and easy to itation persists g KIN: Wash with itation occurs: G | otection/fa cautiously do – cont et medical blenty of so et medical | with water for sevinue rinsing. advice/attention. oap and water. advice/attention | | | |
| Precautionary Statements: | P280: Wear protecti P305+351+338: IF I contact lenses if pre P337+313: If eye irri P302+352: IF ON SI P332+313: If skin irr P362+364: Take off | ve gloves/eye pr N EYES: Rinse sent and easy to itation persists g KIN: Wash with itation occurs: G | otection/fa cautiously o do – cont et medical blenty of so et medical othing and | with water for sevinue rinsing. advice/attention. oap and water. advice/attention | | | |
| Precautionary Statements: Key to Hazard Categories: | P280: Wear protecti P305+351+338: IF I contact lenses if pre P337+313: If eye irri P302+352: IF ON SI P332+313: If skin irr P362+364: Take off | ve gloves/eye pr N EYES: Rinse sent and easy to itation persists g KIN: Wash with itation occurs: G contaminated cl oderate Hazard | otection/fa cautiously o do – cont et medical blenty of so et medical othing and 4=Sli | with water for sev inue rinsing. advice/attention. oap and water. advice/attention wash it before re ight Hazard | euse. | | |

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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| | | <u>4 - First Aid Measures</u> | | | |
|--------------------------------------|---|---|--|--|--|
| Eyes: | Immediately flush with gent Get medical attention if irrit | tle but large stream of water for 15 min, lifting upper and lower eyelids occasionally. ation persists. | | | |
| Skin: | n: Wash affected area with soap and water. If itching or redness develops, seek medical attention. Contaminat clothing should be removed immediately and washed before reuse. Contaminated shoes should be discard | | | | |
| Inhalation: | Move the person to fresh a | ir. If breathing becomes difficult, contact a physician. | | | |
| Ingestion: | Do not induce vomiting. If la you feel unwell. | arge amounts were swallowed, give water to rinse mouth and get medical attention if | | | |
| | | 5 - Firefighting Measures | | | |
| Extinguishing Me | edia: | Water spray, dry chemical, alcohol foam, or carbon dioxide. | | | |
| Unsuitable Exting | | None known. | | | |
| Special Protectiv Firefighters: | | Self-contained breathing apparatus and protective clothing when fighting any chemical fire. | | | |
| Unusual Fire & E | xplosion Hazards: | In case of fire, containers may explode from internal pressure. Cool with water. May emit toxic fumes of NO_x and CO_x under fire conditions. | | | |
| | 6 | 6 - Accidental Release Measures | | | |
| Personal precaut | tions: | 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. Wear protective gloves/eye protection/face protection | | | |
| Environmental p | recautions: | 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. Store in cool dry places between 32°F (0°C) and 95°F (35°C). | | | |
| Special Packagin | ng Requirements: | None known. | | | |
| Incompatible Mat Protection: | terials or Fire/Explosion | Strong oxidizers, strong acids, and strong bases at high temperatures. | | | |

8 - Exposure Controls/Personal Protection

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| 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. |
| ngineering Measures/Controls: | |
| Ventilation: | Ensure adequate ventilation to maintain product at acceptable airborne levels. |
| Other measures: | Eve-wash station. |

| Material | CAS # | BASIS | TYPE | VALUE |
|----------|-------|-------|------|-------|
| None | | | | |

| | <u>9 - P</u> | hysical and C | Chemical Properties | | | |
|---|--|------------------|------------------------------------|------------------|--|--|
| Form and Appearance: | Clear, yellow to amber li | | Odor: | Characteristic | | |
| pH: | ~ 10.0 @ 5% | | Odor Threshold: | N/D | | |
| Boiling Point: | > 212°F (100° | C) | Melting/Freezing point: | N/D | | |
| Vapor Pressure: | < 0.01 mmHg | @ 20°C | Vapor Density (Air=1): | N/A | | |
| Flash Point: | > 212°F (100° | C) (COC) | Evaporation Rate: | N/D | | |
| UEL: | N/A | | LEL: | N/A | | |
| Viscosity: | N/D | | Solubility in Water: | Dispersible | | |
| Octanol/Water Partition Coefficient: | N/D | | Specific Gravity/ Bulk Density: | ~ 0.95 | | |
| Auto-ignition temperature: | N/D | | Decomposition Temperature: | N/D | | |
| Volatile content: | < 1.0% | | VOC Data: | N/D | | |
| | | 10 - Stability | and Reactivity | | | |
| Chemical Stability: | | Product is stabl | le under ordinary conditions of u | ise and storage. | | |
| Hazardous Polymerization: Will not occur | | | r. | | | |
| Conditions to Avoid: Exposure to moist air or water. | | | bist air or water. | | | |
| Incompatible Materials: | Incompatible Materials: Strong oxidizers, strong acids, and strong bases at high temperatures. | | | | | |
| 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).

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| Route of exposure: | Test type: | Species: | Results: | Comments: |
|----------------------------|------------|----------------------|-------------|-------------------------------------|
| Oral | LD50 | Rat | >2000 mg/kg | H303: May be harmful i swallowed |
| Irritation and Corrosion | | | | |
| Target organ: | Species: | Results: | | Comments: |
| Eyes | Rabbit | Serious irritation | - | - |
| Skin | - | Mild irritation poss | sible - | |
| <u>Sensitization</u> | | | | |
| Target organ: | Species: | Results: | (| Comments: |
| Skin | Human | No effects known | - | |
| Specific Target Organ T | | | | |
| Target organ: NDA | Species: | Results: | | Comments: |
| | | | | |
| Chronic Data: | | | | |
| Carcinogenicity | | | | |
| IARC | NTP | ACGI | Н | OSHA |
| No | No | No | | No |
| Mutagenicity: | | NDA | | |
| Reproductive Effects: | | NDA | | |
| Target Organ Effects: | | NDA | | |
| | | 12 - Ecological Info | ormation | |
| Acute Aquatic Toxicity | | | | |
| • • | Test type: | Exposure time: R | Results: | Comments: |
| Species: | | 96h N | IDA | Not expected to be acutely |
| - | LC50 | 9011 1 | | toxic in the aquatic compartment |
| Fish Environmental Fate | LC50 | 9011 1 | | |
| Fish | | NDA | | |

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MULSIFAN TEAO

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| 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 loca state, federal and/or international regulations. | |
| Packaging: | NDA | |
| | 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: | Not regulated. | |
| Hazard Class: | Not regulated. | |
| UN Number: | Not regulated. | |
| Packing Group: | Not regulated. | |
| Label Required: | Not regulated. | |
| Other Information: | Not regulated. | |
| IMDG/IMO Regulations (Maritime Trans | port): | |
| 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. | |

15 - Regulatory Information

Domestic Regulations

| | | None | | None | | | |
|-------------|-----------|------------------------------|--------------------------------|-----------------|--|--|--|
| | | | | NONC | | | |
| | | | | | | | |
| | | | | | | | |
| | | | onents known oductive harm. | | | | |
| None. | | | | | | | |
| | | e or more Ri NJ, PA and I | ight to Know/H RI. | lazardous | | | |
| None. | | | | | | | |
| mation o | mation or | n listings in otl | her states, pleas | se consult that | | | |
| | | | | | | | |
| orea CL) | | Japan (ENCS/ ISHL) | China (IECSC) | New Zealand | | | |
| | | | | (NZIoC) | | | |
| ′es | 'es | Yes | Yes | Yes | | | |
| | | | | | | | |
| ′es | - | | ISHL) | ÎSHL) | | | |

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