



SAFETY DATA SHEET

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| Current Revision: 1, 12/16/2016 | Prepared By: Ben Ward, Product Engineer |
| I. IDENTIFICATION | |
| EMERGENCY PHONE: CHEMTREC- (800) 424-9300 CCN: 19481 | Salem Fabrication Supplies 5901 Gun Club Road Winston-Salem, NC 27103 Information: (800) 234-1982 |
| PRODUCT NAME: STM-211 | |
| SYNONYMS: Semi-synthetic coolant/lubricant. | |

Recommended Use:

Dilutable semi-synthetic metalworking fluid for industrial production.

Restrictions:

N/A

II. HAZARD IDENTIFICATION

Classification (§1910.1200):

Skin Irrit. 2 H315

Eye Irrit. 2A H319

GO BEYOND THE EDGE

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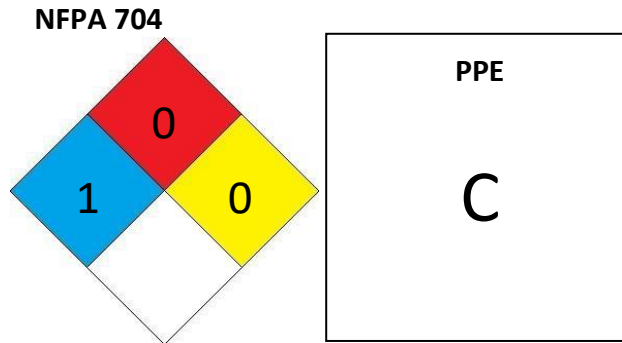
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Skin Sens. 1 H317

Signal Word/Symbols:



WARNING

Hazard Statement:

- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H317 - May cause an allergic skin reaction.

Precautionary Statement:

- P261 - Avoid breathing vapors, mist, spray.
- P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
- P280 - Wear protective clothing, protective gloves, eye protection.
- P302+P352 - If on skin: Wash with plenty of water.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 - Specific treatment (see Section 4).
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents/container according to local, regional, national, and international regulations.

Miscellaneous Hazards:

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Avoid release to the environment.

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Unknown Acute Toxicity Statement:

<8.0% of the mixture contains ingredients of unknown acute toxicity.

III.COMPOSITION

| CHEMICAL NAME: | COMMON NAMES: | CAS: | % BY WEIGHT: |
|-------------------------|---------------|------------|--------------|
| Triethanolamine | | 102-71-6 | <10 |
| Distillates, petroleum | | 64742-52-5 | <10 |
| Proprietary component 1 | | | <5 |
| Proprietary component 2 | | | <2 |
| Proprietary component 3 | | | <0.3 |

*Information withheld as a trade secret **Classified**

Impurities and Additives:

N/A

IV.FIRST AID MEASURES

Inhalation:

When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact:

Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

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**Eye Contact:**

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Symptoms/Effects:

Causes skin irritation. May cause an allergic skin reaction. Prolonged exposure may cause skin irritation. Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause respiratory irritation. Causes serious eye irritation. Ingestion is likely to be harmful or have adverse effects.

Level Of Medical Attention Needed:

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

V. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media:

Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific Hazards:

Product is not flammable or explosive. When heated to decomposition, emits toxic fumes.

Special Protective Equipment:

Do not enter fire area without proper protective equipment, including respiratory protection.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

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Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, gas). Do not allow product to spread into the environment.

Protective Equipment:

Gloves. Protective clothing. Protective goggles.

Emergency Procedures:

Equip cleanup crew with proper protection. Ventilate area.

Methods for Cleanup/Removal:

Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Contact competent authorities after a spill.

VII. HANDLING AND STORAGE

Handling Precautions:

Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, spray. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Wash contaminated clothing before reuse.

When heated to decomposition, emits toxic fumes. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Safe Storage Conditions:

Prevent from freezing. Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatibilities:

Strong acids. Strong bases. Strong oxidizers.

VIII. EXPOSURE CONTROLS AND PROTECTIVE EQUIPMENT

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| | | |
|--|---|--|
| OSHA PEL: Petroleum Distillates: 5 mg/m ³ TWA (inh fract) | ACGIH TLV: Triethanolamine: 5 mg/m ³ TWA Petroleum Distillates: 5 mg/m ³ TWA & STEL (mists/aerosols) | OTHER EXPOSURE LIMITS: N/A |
|--|---|--|

Appropriate Engineering Controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Measures:

Chemically resistant gloves. Protective clothing. Protective goggles. Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established occupational exposure limits.

PPE recommendations apply to the concentrated product. The diluted form will be less hazardous.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Blue/clear haze liquid

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|--|--|---|
| Odor: No data available. | Odor Threshold: No data available. | Ph: 9.1-9.4 (@5%) |
| Melting/Freezing Point: < 32 °F (0 °C) | Boiling Point: > 212 °F (100 °C) | Boiling Range: No data available. |

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| Flash Point: N/A (water based) | Evaporation Rate: No data available. | Flammability (Solid, Gas): No data available. |
| Upper/Lower Flammability/Explosive Limit: No data available. | Vapor Pressure: No data available. | Vapor Density: No data available. |
| Relative Density: 1.024 | Solubility (ies): Emulsifiable | Partition Coefficient: NOctanol/Water: No data available. |
| Auto Ignition Temperature: No data available. | Decomposition Temperature: No data available. | Viscosity: No data available. |

X.STABILITY AND REACTIVITY

Reactivity:

Hazardous reactions will not occur under normal conditions.

Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid: Static Discharge, Shock, Vibrations, Etc.

Direct sunlight, extremely high or low temperatures, and incompatible materials. Do not freeze.

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Incompatible Materials:

Strong acids, strong bases, and strong oxidizers.

Hazardous Decomposition Products:

Toxic and corrosive gases are released. Thermal decomposition generates: Carbon oxides (CO, CO₂). Nitrogen oxides.

I.TOXICOLOGICAL INFORMATION

Possible Exposure Routes (Inhalation Etc.):

Inhalation, ingestion, and skin and eye contact.

Symptoms Related To Toxicological Characteristics:

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. Ingestion is likely to be harmful or have adverse effects.

Delayed, Immediate, and Chronic Effects:

No data available.

Numerical Toxicity Measurements:

LD50 Oral Rat 6400mg/kg
LD50 Dermal Rabbit >2000mg/kg

NTP/IARC/OSHA Known Carcinogen:

IARC: 3

XII.ECOLOGICAL INFORMATION

Ecotoxicity:

Triethanolamine:
LC50 Fish: 10600 - 13000 mg/l (96 h - Species: Pimephales promelas [flow-through])
LC50 Fish: 1000 mg/l (96 h - Species: Pimephales promelas [static])

Persistence and Degradability:

Not established.

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Bioaccumulative Potential:

Triethanolamine:
 BCF Fish 1: 3.9
 Log Pow: -2.53

Soil Mobility:

No data available.

Other Adverse Effects:

Avoid release to the environment.

XIII. DISPOSAL CONSIDERATIONS

Waste Residue and Disposal:

Dispose of contents/container in accordance with local, regional, national, and international regulations. Keep out of sewers and waterways.

XIV. TRANSPORT INFORMATION

| | | |
|---|---|---|
| <p>UN Number: Not regulated.</p> | <p>UN Proper Shipping Name: Not regulated.</p> | <p>Transport Hazard Class (es): Not regulated.</p> |
| <p>Packing Group: Not regulated.</p> | <p>Environmental Hazards: None known.</p> | <p>Transport in Bulk (Annex LI MARPOL 73/78 and IBC Code) Not regulated.</p> |

Special Precautions:

N/A

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XV. REGULATORY INFORMATION

Environmental/ Health/ Safety:

Triethanolamine:

SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard U.S. -

Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

XVI. OTHER INFORMATION

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Salem Fabrication Supplies. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process. Salem Fabrication Supplies assumes no legal responsibility for use of or reliance upon this information.

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