



Material Safety Data Sheet

Section 1 – Product and Company Information

Product Name: Tricaine Methanesulfonate
Brand: TRICAINE-S

Company: Western Chemical, Inc.
Street Address: 1269 Lattimore Rd.
Ferndale, WA 98248 USA

Technical phone: 360-384-5898
Fax: 360-384-0270
Emergency phone (Chemtrec): **1-800-424-9300**
Date Updated: July 2010
Reviewed By: Jim Garnett

Section 2 – Composition/Information on Ingredient

| <u>Substance Name</u> | <u>CAS #</u> | <u>SARA 313</u> |
|--|--------------------|-----------------|
| Tricaine Methanesulfonate | 886-86-2 | No |
| Formula $\text{NH}_2\text{C}_6\text{H}_4\text{COOC}_2\text{H}_5 \cdot \text{CH}_3\text{SO}_3\text{H}$ | Mol. Weight | 261.29 |

Section 3 – Hazards Identification

Emergency Overview

Caution: Irritant. Irritating to eyes, respiratory system, and skin.

HIMS Rating

Health: 3
Flammability: 1
Reactivity: 0
PPE: E

NFPA Rating

Health: 3
Flammability: 1
Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 – First Aid Measures

ORAL EXPOSURE

If swallowed, wash mouth out with water provided the person is conscious. Do not induce vomiting. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult call a physician.

DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water. Remove and wash contaminated clothing, before reusing.

EYE EXPOSURE

In case of contact with eyes, check for and remove contact lenses, then flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 – Firefighting Measures

FLASH POINT

N/A

AUTO-IGNITION

N/A

FLAMMABILITY

N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), and sulfur oxides (SO₂, SO₃,...).

EXTINGUISHING MEDIA

Water Spray, carbon dioxide, dry chemical powder, or appropriate foam. Do not use water jet.

FIRE FIGHTING

Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.

Section 6 – Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact of liquid solutions with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP

Sweep up, place in a bag, and hold for disposal. Avoid breathing dust. Ventilate area and wash spill site after picking up material.

Section 7 – Handling and Storage.

HANDLING

Avoid inhalation, and contact of dust or liquid with eyes, skin, and clothing. Avoid repeated or prolonged exposure.

STORAGE

Keep container tightly closed. Keep away from heat, open flame, and strong oxidizing agents. Ground all storage and handling equipment.

Section 8 – Exposure Controls/PPE

ENGINEERING CONTROLS

Have safety shower and eye bath available. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate, use type N95 (US) or type P1 (EN 143) respirator. Use protective gloves, chemical safety goggles, boots, and apron or lab coat when working with dust or solution.

Section 9 – Physical/Chemical properties

APPEARANCE

| | |
|---------------------------|------------------------------------|
| Color | white |
| Physical Form | Crystalline powder |
| Molecular weight | 261.29 g./mole |
| pH | N/A |
| BP/BP Range | N/A |
| MP/MP Range | 148 – 150 °C |
| Freezing Point | N/A |
| Vapor Pressure | N/A |
| Vapor Density | N/A |
| Saturated Vapor Density | N/A |
| SG/Density | N/A |
| Bulk Density | N/A |
| Odor threshold | N/A |
| Volatile % | N/A |
| VOC content | N/A |
| Water content | <0.1% |
| Solvent content | N/A |
| Evaporation rate | N/A |
| Viscosity | N/A |
| Partition Coefficient | N/A |
| Decomposition Temperature | N/A |
| Flash point °F | N/A |
| Flash point °C | N/A |
| Explosion limits | N/A |
| Auto-ignition temperature | N/A |
| Solubility | highly soluble in water. Up to 11% |

N/A = Not Available

Section 10 – Stability and Reactivity

Stability

Stable.

Conditions to Avoid

Excessive heat or open flame.

Materials to Avoid

Strong Oxidizing agents.

Hazardous Polymerization

Will not occur.

Section 11 – Toxicological Information

Route of Exposure

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye contact: may cause eye irritation.

Inhalation: Dust may be irritating to the mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: may be harmful if swallowed.

Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Toxicity to animals

Intravenous

Mouse

180 mg/Kg

LD50

Section 12 – Ecological Information

To the best of our knowledge the toxicity to the environment has not been fully explored yet.

Section 13 – Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local regulations.

Section 14 – Transport Information

DOT

Proper shipping name: None
Considered non-hazardous for transport.

IATA

Considered non-hazardous for air transport.

Section 15 – Regulatory Information

US Classification and label text

US Statements required: Caution: irritant.

US regulatory information

SARA Listed: No
TSCA Inventory Item: Yes

Canada regulatory information

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
NDSL: No

Section 16 – Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The burden of safe use of our materials must rest with the user. We cannot assume responsibility for the completeness or accuracy of any information supplied by us concerning the hazards and recommended use of this product.