
SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Trimethylene carbonate
Product Number: S2346

Sarchem Laboratories, Inc.
5012 Industrial Road
Farmingdale, NJ 07727

Emergency Phone No: 800-255-3924
International: +1-813-248-0585
ChemTel Inc

2. HAZARDS INFORMATION:**Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Eye irritation (Category 2A), H319

For the full text of the H-Statements mentioned in this Section, see Section 16

GHS Label elements, including precautionary statements

Signal Word: Warning

**Hazard statement(s)**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P501 Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS</u>	<u>Molecular Weight</u>
1,3-Dioxan-2-one	2453-03-4	102.03 g/mol
Formula : C ₄ H ₆ O ₃		

Chemical Formula: C₄H₁₁N₃

4. FIRST AID MEASURES:

EYES: Immediately flush eyes, including under the eyelids with running water for 15 minutes. If irritation persists, consult a physician.

SKIN: Wash affected areas with copious amounts of water. Contaminated clothing should be washed before reuse.

INGESTION: Drink several glasses of water. **DO NOT INDUCE VOMITING. SEEK MEDICAL AID.**

INHALATION: Remove to fresh air. Call a physician if symptoms persist.

NOTES TO PHYSICIAN: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Due to the irritant and surfactant action of the material, if it is aspirated during the swallowing or vomiting, there may be lung injury. Therefore, emesis should not be induced by mechanical or pharmacological means. If it is considered that evacuation of the stomach contents is necessary, this should be done by means least likely to result in aspiration (e.g., the use of gastric lavage in the presence of endotracheal intubation).

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLAMMABLE LIMITS: Not determined.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide and carbon dioxide Nitrogen oxides.

FIRE FIGHTING INSTRUCTIONS:

Fire Fighting Procedures: Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed container. Special hazards caused by the material, its products of combination or resulting gases: In case of fire, the following can be released: Carbon monoxide and carbon dioxide

Extinguishing Media: Water spray (fog), or foam for large fires. CO₂ or dry chemicals for small fires.

Unusual Fire & Explosive Hazards: None.

NFPA: H1 = Slightly Hazardous; F1 = Must be preheated to burn; R0 = Normally stable.

6. ACCIDENTAL RELEASE MEASURES:

SMALL SPILL: Recover as much material as practical. Soak up balance with sand, dirt, or other absorbent and haul to approved dump. Wash away residue with water. The washings should be discharged to a plant or municipal process water treatment systems. Avoid direct discharge to natural waterways. Material may initially gel or solidify on contact with water.

7. HANDLING & STORAGE

HANDLING: Spilled material is slippery on walkways and highways. Foams profusely when hit with a stream of water. Wash thoroughly after handling. Do not get in eyes. Avoid skin and clothing contact.

STORAGE: Do not store with strong oxidizing agents. Store in plastic or plastic lined steel tightly closed containers. Containers should be stored at temperatures between 40 and 100°F. See Sections 10 and 15 for additional information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

ENGINEERING CONTROLS: General (mechanical) room ventilation

RESPIRATORY PROTECTION: Yes, if working in confined spaces. Use MSHA OR NIOSH approved organic vapor respirator protection should be used for cleaning large spills or entry into tanks, vessels, or other confined spaces.

SKIN PROTECTION: Protective gloves (PVC-coated), long sleeve shirt, trousers, and chemical resistant boots.

EYE PROTECTION: Yes, safety glasses or goggles.

Other Protection: Eye bath and safety shower located near work process area.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point:

Melting Point: 40-44°C

Vapor Pressure:

% Volatile by Weight:

Solubility in Water: Yes

Density

pH of Liquid, Typical (10% soln):

Odor: No

Appearance: White crystalline

Assay: 98% min

10. STABILITY AND REACTIVITY:**Chemical Stability:** Stable compound**Incompatibility:** N/A**Conditions to Avoid:** N/A**Hazardous Decomposition Conditions:** N/A**Hazardous Polymerization:**

11. TOXICOLOGICAL INFORMATION:**EYES:****SKIN:** skin of rabbit**INGESTION:** Oral RAT LD50: Unknown.**INHALATION:** Unknown.

CHRONIC: Moderately toxic by ingestion. A skin and eye irritant. When heated to decomposition, it emits toxic fumes of SO_x, CO_x, and NO_x.

CARCINOGENICITY: NTP, IRAC, OSHA Reg. –Product is not listed.**TLV:** Not established for product. See Section 15.**Hazard Type:** Skin Irritant.

12. ECOLOGICAL INFORMATION:

ECOTOXICOLOGICAL INFORMATION: Do not release into surface waters. Discharge of large quantities into the aquatic environment may kill fish and other aquatic organisms.

CHEMICAL FATE INFORMATION: Complete biodegradation of the primary alkyl sulfates occurs within seven (7) days.

13. DISPOSAL CONSIDERATIONS:

Waste disposal method: Sewer as diluted. Material is completely biodegradable. May be disposed of in a landfill as non-hazardous waste, check local codes and regulations.

14. TRANSPORTATION INFORMATION:

Proper Shipping Name: 1,3-Dioxan--one

DOT Hazard Class:

Emergency Response Guide No.:

EPA Reportable Quantity:

15. REGULATORY INFORMATION:

NOTICE: The following information is presented in good faith and believed to be accurate as of the effective/revision date shown above. No warranty is expressed or implied. Regulatory requirements are subject to change and may vary from one location to another; it is the buyer's responsibility to ensure that its activities comply with current federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local regulations. Health and Safety information is stated elsewhere in this MSDS.

STATUS OF SUBSTANCE LISTS:

The upper bound configurations are the maximum or ceiling levels (weight %) to be used for calculations for the regulations.

FEDERAL EPA

TSCA STATUS:

All chemical substances contained in this product are on the TSCA Inventory List.

CERCLA:

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4.

SARA Title III – Sections 302, 304, 311, 312, 313

Components present in this product at a level which could require reporting under the statute are:

NONE

16. OTHER INFORMATION:

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity

Eye Irrit. Eye irritation

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

HMIS Rating

Health hazard: 2

Chronic Health Hazard:

Flammability: 1

Physical Hazard 0

NFPA Rating

Health hazard: 2

Fire Hazard: 1

Reactivity Hazard: 0

The above data is for information purposes only and is accurate to the best of Sarchem Laboratories' knowledge. No guarantee or liability is expressed or implied.