

Section 1. Product and Company Identification

Product Name 1,1,3,3-Tetramethylguanidine
CAS Number 80-70-6

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

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

Flammable liquids (Category 3), H226

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.



- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
- P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 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 or doctor/ physician.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Acute Health Effects

Eye Contact: Causes eye burns.

Skin Contact: Causes burns.

Inhalation: Breathing of mist or liquid can cause respiratory irritation and burns. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Ingestion: Burns to gastrointestinal tract

Section 3. Composition / Information on Ingredients

Common Name	1,1,3,3-Tetramethylguanidine
Formula	C ₅ H ₁₃ N ₃
CAS Number	80-70-6

Section 4. First Aid Measures

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.



Section 5. Firefighting Measures

Flash Point: 60°C / 140°F

Auto-ignition Temperature: 350°C / 662°F

Flammable Limits in Air (%): Not Available.

Extinguishing Media: Use DRY chemicals, CO₂, alcohol foam or water spray.

Special Exposure Hazards: Not Available.

Hazardous Decomposition/Combustion Materials (under fire conditions): Not available.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

Section 6. Accidental Release Measures

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult local authorities.

Procedure for Clean Up: Isolate hazard area and restrict access. Absorb with an inert dry material and place in an appropriate waste disposal container. Avoid direct contact with material.

Section 7. Handling and Storage

Handling: For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. DO NOT handle or store near an open flame, heat, or other sources of ignition. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. DO NOT pressurize, cut, heat, or weld containers. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment. Manipulate under an adequate fume hood.

Storage: Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices.

Section 8. Exposure Controls / Personal Protection

Engineering Controls

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use NIOSH approved supplied air respirator.

Gloves: Appropriate chemical resistant gloves should be worn.

Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.



Exposure Limit - ACGIH: Not available
Exposure Limit - OSHA: Not available
Immediately Dangerous to Life or Health - IDLH: Not available

Section 9. Physical and Chemical Properties

Physical State: Liquid
Color: N/A
Odor: Mild Ammoniacal.
pH Not Available.
Specific Gravity: 0.9180
Boiling Point: 160 - 162°C / 320 - 324°F
Freezing/Melting Point: < -30°C / < -22°F
Vapor Pressure (25°C): 0.26 hPa
Vapor Density: Not Available.
Volatile %: Not Available.
Evaporation Rate: Not Available.
Solubility: Miscible in water.
VOCs: Not Available.
Viscosity: N/A
Molecular Weight: 115.18

Section 10. Stability and Reactivity

Chemical Stability: Stable under normal conditions of handling, use and transportation.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Avoid any source of ignition.
Materials to Avoid: Strong oxidizing agents. Strong acids. Acid chlorides. Acid anhydrides.
Hazardous Decomposition Products: Oxides of nitrogen. Carbon monoxide. Carbon dioxide.

Section 11. Toxicological Information

Principle Routes of Exposure

Ingestion: burns to gastrointestinal tract,

Skin Contact: Causes burns.

Inhalation: Breathing of mist or liquid can cause respiratory irritation and burns. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Eye Contact: Causes eye burns.

Acute Test of Product

Acute Oral LD50: Not Available.

Acute Dermal LD50: Not Available.

Acute Inhalation LC50: Not Available.



Carcinogenicity

IARC: Not listed.

ACGIH: Not listed

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity/Teratogenicity/Embryotoxicity/Mutagenicity: Not Available

Section 12. Ecological Information

Ecotoxicological Information

Ecotoxicity - Fish Species Data: Not available

Acute Crustaceans Toxicity: Not available

Ecotoxicity - Freshwater Algae Data: Not available

Other Information: No additional remark.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US)

DOT Shipping Name: Caustic Alkali Liquid, N.O.S. (1,1,3,3-tetramethylguanidine)

DOT Hazardous Class: 8

DOT UN Number: UN1719

DOT Packing Group: II

DOT Reportable Quantity (lbs): Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

ICAO/IATA

IATA Proper Shipping Name: Caustic Alkali Liquid, N.O.S. (1,1,3,3-tetramethylguanidine)

IATA Hazard Class: 8

UN Number: UN1719

Packing Group: II

IATA Label: Not Applicable.

IATA Remarks: No additional remark.

IMDG

IMDG Proper Shipping Name: Caustic Alkali Liquid, N.O.S. (1,1,3,3-tetramethylguanidine)

Hazard Class: 8

UN Number: UN1719

Packing Group: II



Marine Pollutant: No.
IMDG Label: Not Applicable.
Remarks: No additional remark.

TDG (Canada)

TDG Proper Shipping Name: Caustic Alkali Liquid, N.O.S. (1,1,3,3-tetramethylguanidine)

Hazard Class: 8

UN Number: UN1719

Packing Group: II

Note: No additional remark.

Marine Pollutant: No.

Section 15. Regulatory Information

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

U.S. Regulatory Rules

CERCLA/SARA - Section 302: Not listed

SARA (311, 312) Hazard Class: Not listed

CERCLA/SARA - Section 313: Not listed

California Proposition 65: Not Listed.

MA Right to Know List: Not Listed.

New Jersey Right-to-Know List: Not Listed.

Pennsylvania Right to Know List: Not Listed.

WHMIS Hazardous Class

B3 - Combustible Liquids

E - Corrosive Material

Section 16. Other Information

Disclaimer: 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. It does not represent any guarantee of the properties of the product.

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