Section 1. Product and Company Identification

Product Name Trimethylolpropane
CAS Number 77-99-6

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
(914) 654-6800 **(914) 654-6899**
parchem.com **info@parchem.com**

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
GHS Classification: Not classified as hazardous.

Signal word: Warning

Hazard and precautionary statements
H303: May be harmful if swallowed.

Section 3. Composition / Information on Ingredients

Common Name Trimethylolpropane
Synonym(s) TMP, 3-Propanediol,2-ethyl-2-(hydroxymethyl)-
CAS Number 77-99-6

COMPONENT	CAS NUMBER	CONCENTRATION
Trimethylolpropane	77-99-6	> 98%

Section 4. First Aid Measures

Eyes: Immediately flush with plenty of water at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses. Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed.
Skin: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If irritation persists, contact physician.
Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Get medical attention immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth respiration. If breathing has ceased, apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.
Notes to physicians or first aid providers: Treat symptomatically and supportively.

Section 5. Firefighting Measures

HMIS hazard classification
Health: 1
Flammability: 1
Reactivity: 0
Protection: B

Extinguishing media: Use carbon dioxide/dry chemical for small fires. Use alcohol-type aqueous film-forming foam or water spray for large fires. Do not use a solid water stream as it may scatter and spread fire.
Special firefighting procedures: Combustion may produce irritating vapor.
Unusual fire and explosion hazards: Can form an explosive organic dust cloud. Do not use compressed air to transfer this material. Protect against electrostatic charges.
Hazardous decomposition products: Combustion may product irritant fumes and carbon monoxide.

Section 6. Accidental Release Measures

Accidental release measures: Avoid contact with skin and eyes. Avoid breathing dust. Keep away from heat and sources of ignition. Sweep up and store in disposal drums for disposal according to local, state, and federal regulations. Keep away from soil, sewers, rivers, or drinking water system.

Section 7. Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling. This product should be stored at ambient temperature in a dry, well-ventilated location.
Storage: Keep container tightly closed. Avoid generation of excessive dust. Ground all equipment when transferring to avoid building up a static charge.

Section 8. Exposure Controls / Personal Protection

OSHA PEL (General Dust): 15 mg/m^3 (inhalable fraction); 5 mg/m^3 (respirable fraction)
ACGIH TLV-TWA (General Dust): 10 mg/m^3 (inhalable fraction); 3 mg/m^3 (respirable fraction)

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Ventilation: Local exhaust recommended when appropriate to control employee exposure. MECH(GEN) NOT recommended as sole means of controlling employee exposure. Explosion-proof equipment should be used in mechanical ventilating systems.

Respiratory protection: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.
Eye protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin protection: Wear impervious body covering and boots. (PVC/Nitrile Rubber) A safety shower and eye bath should be available.
Work hygienic practices: Wash thoroughly with soap and water after handling. Wash contaminated clothing before reusing.

Section 9. Physical and Chemical Properties

Appearance: White, waxy hydroscopic flakes.
Odor: Mild aromatic odor
Flammable limits in air
Upper: 11.8% vol. **Lower:** 2% vol.
Flash point (Open Cup): 355°F (179°C)
Auto ignition temperature: 707°F (375°C**)**
Boiling point: 552°F (289°C)
Melting point: 138°F (59°C)
Vapor pressure (mm Hg/70°F): < 1
Vapor density (AIR = 1): 4.6
pH = 5.6
Log PO/W: -0.47
Solubility in water (20°C): >100 g/L
Bulk density: 0.6 - 0.8 g/mL at 20°C
Evaporation rate: Not available
Viscosity: 100 mPa.s (70°C)
Molecular weight; 134.17

Section 10. Stability and Reactivity

Stability: Stable
Conditions to avoid (stability): Heat, sparks, flames; incompatible materials. Dust can form an explosive mixture in air.
Incompatibility (material to avoid): Strong oxidizing agents, strong acids, acid chlorides and acid anhydrides.
Hazardous decomposition or by-products: Carbon monoxide and dioxide may be produced in burning.
Hazardous polymerization: Will not occur.
Conditions to avoid (polymerization): Not applicable.
Notes: This product may react with strong oxidizers. Avoid generation of excessive dust, it is recommended that TMP not be used in formulations with Phosphorus/Phosphorus derivatives that may be subject to pyrolysis conditions unless fully tested to supply data.

Section 11. Toxicological Information

Acute toxicity
LD50 = 14.700 mg/Kg (oral, rat)
LD0 = 10.000 mg/Kg (skin, rat) - no deaths
LC0 = 0.85 mg/l/4h (inhalation, rat) - no deaths

Irritation
Eye irritation rabbit: not irritating
Skin irritation rabbit: not irritating

Sensitization
Skin: No data available

Mutagenicity (AMES Test): Negative

Repeated dose toxicity
Subacute: NOAEL 200 mg/Kg/day (28 days) oral, rat
Subchronic: NOAEL 67 mg/Kg/day (28 days) oral, rat

Carcinogenicity
OSHA: No
NIOSH: No
NTP: No
IARC: No

Section 12. Ecological Information

Bioaccumulation: log BCF<1

Degradation
Biotic: 98% (14d) OECD 302B
Abiotic: COD=1,620 mgO2/g Hydrolytically stable

Aquatic toxicity
Fish LC50 >= 1,000 mg/l (48 h) Leucius idus
Daphnia EC50 > 1,000 mg/l (96 h) Nicotra spinipes

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

U.S. department of transportation
Proper shipping name: Trimethylolpropane
Hazard class: Not regulated

Water transportation
Proper shipping name: Trimethylolpropane
Hazard class: Not regulated

Air transportation
Proper shipping name: Trimethylolpropane
Hazard class: Not regulated

Section 15. Regulatory Information

U.S. Federal Regulations
TSCA (Toxic Substance Control Act): Listed under CAS# 77-99-6
TSCA 12 (b) Export Notification: Not listed.

CERCLA (Comprehensive Response Compensation, and Liability Act): Not regulated

SARA TITLE III
Section 302 (40 CFR 355.30): Not regulated
Section 303 (40 CFR 355.40): Not regulated
Section 311/312 hazard categories
Acute: Yes
Chronic: No
Fire: No
Reactive: No
Sudden Release: No
Section 313 (40 CFR 372.65): Not regulated

OSHA Process Safety (29CFR1910.119): Not regulated

State Regulations
California Proposition 65: Not regulated

International Regulations
Canadian: WHMIS Classification: Not determined

European Community
German regulations
Water hazard class (WGK)
State of Classification: VwVwS
Classification under hazard to water: 1

National Inventory Status
DSL: Listed
EINECS: Listed
ENCS: Listed
AICS: Listed
ECL: Listed. (Serial # KE-13838)
SWISS: Listed (G-5932)
PICCS: Listed.
ASIA/PAC: Listed

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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