



Section 1. Product and Company Identification

Product Name Phosphinylidynetrimethanol
CAS Number 1067-12-5

Parchem - fine & specialty chemicals

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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

Not classified as a hazardous substance or mixture

GHS Label Elements

Pictograms: N/A

Signal word: N/A

Hazard and precautionary statements: None

Environmental Hazards: N/A

Health Hazards: N/A

LD50/LC50 Mixture: None specified by manufacturer.

Routes of Entry

Inhalation: Yes

Skin: Yes

Ingestion: Yes

Reports of Carcinogenicity

NTP: No

IARC: No

OSHA: No

Health Hazards

Acute: May be harmful by inhalation, ingestion or skin absorption. Causes eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract.

Explanation of Carcinogenicity: None specified by manufacturer.

Effects of Overexposure: None specified by manufacturer.

Medical Conditions Aggravated by Exposure: None specified by manufacturer.



Section 3. Composition / Information on Ingredients

Common Name	Phosphinylidynetrimethanol
Synonym(s)	THPO; Tris(hydroxymethyl) phosphinoxide
Formula	$C_3H_9O_4P$
CAS Number	1067-12-5

Section 4. First Aid Measures

Eye Contact: Irrigate eyes with a certain amount of water or physiological saline. If there are persistent symptoms, obtain medical advice.

Inhalation: Remove to fresh air; seek medicinal attention if symptoms persist.

Skin Contact: Immediately wash affected skin with plenty of water. Take off contaminated clothing, wristwatch, and jewelry. Wash clothes before re-use.

Ingestion: Immediately offer water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed by medical personnel. If symptoms occur, get medical attention.

Section 5. Firefighting Measures

Flash Point: min. 259.2°C or 498.56°F

Extinguishing Media: Water, powder, carbon dioxide.

Unusual Fire and Explosion Hazards: N/A

Hazardous Product Of Combustion: Carbon monoxide (CO), phosphorus oxides (P_xO_y).

Firefighting Equipment: Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

Section 6. Accidental Release Measures

Stop leak if possible. Pick up small spills with absorbent materials and dispose of properly. Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

Section 7. Handling and Storage

Store in closed containers between 68 and 77°F.

Keep away from humid conditions, oxidizing agents, and excessive heat.

Store and use in well ventilated areas.

Do not store or use near heat, spark or flame, store out of sun.

Do not puncture, drag, or slide this container.

Drum is not a pressure vessel; never use pressure to empty.

Section 8. Exposure Controls / Personal Protection

Respiration Protection: If vapors or mists are generated, wear an authorization approved organic vapor/mist respirator.

Protective Clothing: Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact.

Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

Section 9. Physical and Chemical Properties

THPO: $\geq 95.0\%$

Appearance: Pale-yellow or colorless

Density (20°C): 1.44 - 1.45 g/cm³

Phosphorous Content: $\geq 21.0\%$

Moisture: $\leq 2.0\%$

Formaldehyde: ≤ 2000 ppm

Viscosity (20°C): 3500 - 4000 mPa*s

Sulfate Ion: ≤ 8000 ppm

pH: 6 - 8

Section 10. Stability and Reactivity

General: This product is stable and hazardous polymerization will not occur.

Incompatible Materials and Conditions to Avoid: Humid conditions and Strong oxidizing agents

Hazardous Decomposition Products: Combustion produces carbon monoxide, carbon dioxide, and phosphorus oxides along with smoke.

Section 11. Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: No adverse effects expected, however, large amounts may cause nausea and vomiting.

Eye contact: An eye irritant.

Skin contact: No skin irritation but long contact may cause dermatitis.

Inhalation: Material may be irritant to the mucous membranes of the respiratory tract (airways).

Long Term Effects: No information available for the product.

Toxicological Data: No information available for the product.



Section 12. Ecological Information

Ecotoxicity: Avoid contaminating waterways.

Aquatic toxicity: N/A

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: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA: Non-Hazardous for Air Transport

IMO: Non-Hazardous for Sea Transport

ADR/RID Class: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

UN Name: None

Packaging Requirements: The product can be shipped in all modes of transportation. Suggested Packaging is plastic bucket.

Section 15. Regulatory Information

Chemical Safety Management of Dangerous Goods Regulations (issued by State Department on 17 Feb 1987) and Chemical Safety Management of Dangerous Goods Regulations Ordinance have been issued against safe using, production, storage, transportation, loading the hazardous chemical goods. In the 6.1 section of Dangerous Chemical Common Use Classification and Signs, it has been categorized as one of the non-poisonous commodities.

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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