



Section 1. Product and Company Identification

Product Name Potassium Tripolyphosphate
CAS Number 13845-36-8

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: GHS – This product does not meet the criteria for classification under GHS

Irritating to skin and eye and respiratory tract. White granular, odorless. Avoid breathing dust, fumes, gas mist, vapors and or spray. Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Product is not flammable.

Potential Health Effects

Eyes: May cause significant irritation to the eyes.

Skin: May cause significant irritation to the skin.

Ingestion: May cause significant irritation to the digestive tract.

Inhalation: May cause significant irritation to the lungs, upper respiratory tract and nose.

Signs & Symptoms of Exposure

Eyes: Redness and possible itching and/or tearing of the eyes.

Skin: Redness and/or itching of the skin.

Ingestion: Possibly nausea and/or vomiting.

Inhalation: Possible coughing, burning, tightness of chest and/or shortness of breath.

Section 3. Composition / Information on Ingredients

Common Name Potassium Tripolyphosphate
Synonym(s) KTPP; Triphosphoric, penta potassium salt
Formula $K_5P_3O_{10}$
CAS Number 13845-36-8

COMPONENT	CAS NUMBER	CONCENTRATION
Potassium Tripolyphosphate	13845-36-8	100.00% wt.



Section 4. First Aid Measures

Ingestion: If victim is conscious and alert, give 1 - 2 glasses of water to drink. Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Eye Contact: Flush eyes with large quantities of running water for a minimum of 15 minutes. If victim is wearing contact lenses, remove them. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time. Get medical attention if eye irritation occurs.

Skin Contact: Remove contaminated clothing, including shoes and immediately wash affected area with plenty of soap and water. Seek medical attention. Wash contaminated clothing and shoes before reuse.

Inhalation: Remove to fresh air. If breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration. Get medical attention.

Section 5. Firefighting Measures

NFPA Rating

Health: 2

Flammability: 0

Reactivity: 0

Special: N/A

Flash Point: Non-flammable

Flammable Limits

LEL: ND

UEL: ND

Auto-ignition Temperature: N/A

Extinguishing Media: Take into account necessary fire extinguishing method of surrounding areas. Water spray, foam, carbon dioxide, sand.

Special Firefighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Evacuate residents who are downwind of fire. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: This product is a nonflammable inorganic substance. Cool exposed containers with water spray to prevent overheating. Evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes and smoke.

Hazardous Combustion Products: Oxides of phosphorus

Emergency Response Guidebook Information: None



Section 6. Accidental Release Measures

Steps to be taken in case Material is Released or Spilled: Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Wearing the appropriate personal protective equipment designated, move the leaking container to a containment area or rotate the container so that the opening is above the liquid level. Sweep up spilled material and dispose of at appropriate waste disposal facility according to current applicable laws and regulations. Flush area with water and ensure that the contaminated water is handled according to applicable laws. If large spill, contain material as described above and call local fire or police department for immediate emergency assistance.

Section 7. Handling and Storage

Handling and Storage: Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices. Store in unopened containers under cool and dry conditions. Do not store with, or close to acids. Do not store with, or close to strong bases.

Section 8. Exposure Controls / Personal Protection

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

Respiratory Protection: When respirators required, use NIOSH/MSHA approved equipment based on actual/potential airborne concentration and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations. Under dangerous conditions, use full-face positive pressure air-supplied respirator equipped with emergency escape air supply unit or a self-contained breathing apparatus unit.

Eye Protection: Eye/face protection requirements vary depending upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be used for the particular use intended for this material. Use chemical safety glasses with side shields or splash proof goggles and face shield to prevent eye/face contact. Emergency eye wash must be readily accessible to work area.

Other Protection: Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. Remove contaminated clothing; launder before reuse. Cleanse skin thoroughly after contact, before meals and end of work period.

Ventilation Limits: If dust is generated, provide local exhaust ventilation to control airborne levels below the ACGIH TLV-TWA exposure limit for Particulates Not Otherwise Classified of 10 mg/m³ for INHALABLES particles and 3 mg/m³ for respirable.

Exposure Limits: Not established

Hygienic Practices: All food / smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed. Facilities storing or using this material should be equipped with an eyewash and safety shower.



Section 9. Physical and Chemical Properties

Molecular Weight: 448 g/mol
Boiling Point: > 1,500°C
Melting Point: 620 - 640°C (1,148 - 1,184°F)
Specific Gravity (15°C): 1.16 g/cm³
Vapor Pressure (mm Hg): Non-volatile
Vapor Density (Air = 1): Non-volatile
Reactivity in Water: N/A
Solubility in Water (25°C): Soluble 19.3%
Appearance and Odor: White granular, odorless
pH (1% Solution): 9.0 - 10.2
Insolubles: ≤ 1.5%

Section 10. Stability and Reactivity

Stability: This product is stable under normal ambient conditions of temperature and pressure.
Conditions to Avoid: Heat
Incompatible Materials: Not available
Hazardous Decomposition Products: None
Polymerization Conditions to Avoid: Will not occur

Section 11. Toxicological Information

Eye Effects: Nonirritant (Rabbit)
Skin Effects: Not available
Dermal Toxicity: Not available
Inhalation Effects: Not available
Sensitization: Not available
Ingestion Effects: Oral LD50 > 2,000 mg/kg (Rat)
Carcinogenicity/Mutagenicity: Not listed as a carcinogen by IARC, NTP, or OSHA.
Mutagenicity information is not available.
Reproductive Effects: Not available
Neurotoxicity: Not available
Target Organs: Eyes, skin, gastrointestinal tract, respiratory tract.
Additional Toxicological Information: None

Section 12. Ecological Information

Biodegradability: Can be eliminated from the water by precipitation or flocculation
Ecotoxicity: Golden Orfe >800 mg/l 48 hr
Biological Oxygen Demand (BOD5): Not available
Chemical Oxygen Demand: Not available
Activated Sludge Respiration Inhibition Test: Not available



Additional Ecological Information: Product should not enter the drains undiluted. The product is an inorganic, non-reducible type of substance has neither a BSB nor a CSB. Product does not contain any organic bound Halogens which could lead to AOX-values.

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

Proper Shipping Name: Potassium Tripolyphosphate

D.O.T. Hazard Class: Not regulated by D.O.T.

Label Requirement: -

Placard: -

Packing Group: -

UN Number: -

RQ: -

CAS Number: 13845-36-8

Section 15. Regulatory Information

State Right to Know Laws

The Following ingredients are disclosed for Compliance with State Right to Know Laws: None

SARA Title III Hazard Classes Sections 311/312: Not applicable

OSHA Status: This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

SARA Title III Hazard Classes Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:

This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

TSCA Status: Listed/Non-reportable

SARA Section 313: This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act: None

CERCLA, 40 CFR 117, 302: This product does NOT contain ingredients specified in the List of Extremely Hazardous Substances.

SARA Superfund Section 110: This product does NOT contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

California Proposition 65: This product does NOT contain a chemical or chemicals subject to California Proposition 65.

Michigan Critical Materials: This product does NOT contain ingredients listed on the Michigan Critical Materials Register.



CAA: None known

CWA: None known

RCRA: Not listed as a hazardous waste

Canada CEPA: All intentional ingredients are NOT listed on the DSL.

Canada WHMIS: This product is WHMIS controlled.

HMIS Rating

Health: 1

Flammability: 0

Reactivity: 0

Personal Protection: E

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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