



Section 1. Product and Company Identification

**Product Name** Monopotassium Phosphate  
**CAS Number** 7778-77-0

**Parchem - fine & specialty chemicals**

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**New Rochelle, NY 10801**

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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

Not classified as a hazardous substance or mixture

**OSHA Defined Hazards:** This product does not contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

**GHS Label Elements**

**Pictograms:** N/A

**Signal word:** N/A

**Hazard and precautionary statements**

None

**HNOC - Hazards Not Otherwise Classified:** No other hazards classified

Section 3. Composition / Information on Ingredients

**Common Name** Monopotassium Phosphate

**Formula**  $\text{KH}_2\text{PO}_4$

**CAS Number** 7778-77-0

COMPONENT	CAS NUMBER	CONCENTRATION
Monopotassium Phosphate	7778-77-0	100% wt.

Section 4. First Aid Measures

**Description of first aid measures**

**General Advice:** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred



**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.

**Skin Contact:** In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes before reuse or discard if they cannot be thoroughly cleaned.

**Eye Contact:** Flush eyes with large quantities of running water for a minimum of 15 minutes. If present and easy to do, remove contact lenses. 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 use at this time. Get medical attention if eye irritation occurs.

**Ingestion:** If victim is conscious and alert, give 2-3 glasses of water to drink and do not induce vomiting unless instructed to do so by a physician. 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. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

#### **Most important symptoms and effects, both acute and delayed**

**Acute:** At high dust concentrations, irritation of eyes, skin, nose, and upper respiratory tract by chemical or mechanical action may occur.

**Skin:** May cause irritation

**Eye:** Irritation and possible damage

**Inhalation:** Dust may cause irritation of respiratory tract and symptoms of bronchitis may result.

**Ingestion:** May result in irritation of mouth, throat and stomach

**Chronic:** This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogen.

**Indication of any immediate medical attention and special treatment needed:** Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

#### Section 5. Firefighting Measures

**Suitable Extinguishing Media:** Not combustible. Use extinguishing method suitable for surrounding fire.

**Unsuitable Extinguishing Media:** None known

#### **Specific Hazards arising from the chemical**

**Hazardous combustion products:** Oxides of phosphorus, oxides of potassium.

**Special protective equipment and precautions for firefighters:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing

**Firefighting equipment/instructions:** 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.



**Specific Methods:** Standard procedure for chemical fires.

Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Do not touch or walk through spilled material. Keep unauthorized personnel away. After wearing and using recommended protective equipment, stop source of spill if safe to do so and dike area to contain spill. See Section 8 for personal protective equipment.

**Environmental Precautions:** Runoff from fire control or dilution water may cause pollution. Large spills should be handled according to a predetermined plan. Consult with environmental regulatory agencies for acceptable procedures of disposal.

**Methods and Materials for Containment and Clean Up:** Stop source of spill if safe to do so. Sweep up spilled solid material, being careful not to create dust. Use clean non-sparking tools and equipment. Return sweeping to stock or, if contaminated, place into a chemical waste container for disposal. Wash away residue with water, without contaminating drains. Soak up wash water with suitable absorbent or sand, sweep up and dispose of in accordance with local regulations

Section 7. Handling and Storage

**Precautions for safe handling:** Use appropriate personal protective equipment as specified. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices. Keep containers closed when not in use. Avoid breathing dust. Avoid direct or prolonged contact with skin and eyes.

**Conditions for safe storage:** Store in a cool, dry place. This product is hygroscopic and tends to cake on storage. Keep in a dry place. Store at room temperature in the original container. Provide appropriate exhaust ventilation at places where dust is formed.

**Incompatibilities:** None known.

Section 8. Exposure Controls / Personal Protection

**Occupational Exposure Limits:** None

**Exposure Limits and Appropriate Engineering Controls:** No exposure limits were found for this product or any of its ingredients.

**Individual Protection Measures, Personal Protective Equipment**

**Eye Protection:** Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.



**Skin Protection:** Skin contact should be minimized through use of gloves and suitable long sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance

**Other Protection:** Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the above listed and following traditional exposure control techniques may be used to effectively minimize employee exposures.

**Respiratory Protection:** When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard {29 CFR 1910.134} and/or ANSI Z88.2 recommendations. For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

**Ventilation Limits:** Local exhaust ventilation at the point of generation is recommended.

**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

**Appearance:** White solid powder

**Odor:** Odorless

**pH:**  $4.5 \pm 0.3$

**Melting Point:** 253°C (487.4°F)

**Freezing Point:** No data available

**Boiling Point:** N/A

**Flash Point:** N/A

**Evaporation Rate:** No data available

**Solubility:** soluble

**Specific Gravity:** 1.25

**Bulk Density:** No data available

**Flammable Limits:** N/ A

**UEL:** Not relevant

**LEL:** Not relevant

**Vapor Pressure (mmHg):** No data available

**Vapor Density (Air = 1):** No data available

**Autoignition Temp:** No data available

**Decomposition Temp:** No data available

**Reactivity in Water:** N/A

Section 10. Stability and Reactivity

**Chemical Stability and Reactivity:** This material is stable under normal handling and storage conditions.

**Possible Hazardous Reactions:** Hazardous polymerization will not occur

**Conditions to avoid:** None known

**Incompatible materials:** None known

**Hazardous Decomposition Products:** Oxides of phosphorus, oxides of potassium.

Section 11. Toxicological Information

**Information on the Likely Routes of Exposure:** Inhalation, Ingestion and Dermal

**Symptoms Related To the Physical, Chemical, and Toxicological Effects**

**Inhalation Effects:** No test data found for product.

**Skin Effects:** Skin irritation, rabbit. Mild irritant.

**Dermal Toxicity:** LD50 - lethal dose 50% of test species, > 7950 mg/kg, rabbit.

**Eye Effects:** No test data found for product.

**Ingestion Effects:** LD50 - lethal dose 50% of test species, 7100 mg/kg, rat.

**Sensitization:** Not available.

**Carcinogenicity/Mutagenicity:** This product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGJH to be "probable" or "suspected" human carcinogens. No information on mutagenicity found for this product.

**Reproductive Effects:** Not available.

**Neurotoxicity:** Not available.

**Target Organs:** Not available.

**Additional Toxicological Information:** None

Section 12. Ecological Information

**Ecotoxicity:** No data available.

**Degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in the Soil:** No data available

**Additional Adverse effect on environment:** None



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

**US DOT, IATA, IMO, ADR:** Not regulated

Section 15. Regulatory Information

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

**TSCA Status:** Listed/Non-reportable

**US SARA Reporting Requirements**

**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.

**SARA Title III Hazard Classes Sections 311/312:** N/A

**SARA Section 313 Toxic Chemicals:** This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

**SARA Superfund Section 110:** This product does not contain ingredients listed as hazardous substances on the priority list of CERCLA hazardous substances

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

**CERCLA listed substances:** None

**Other Federal Reporting Requirements**

**CAA:** This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act

**CWA:** No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

**RCRA:** Not considered a hazardous waste.

**State Reporting Requirements**

**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

**Global Lists/International Inventories**

**Canada CEPA:** All intentional ingredients are listed on DSL.

**Canada WHMIS:** Not controlled



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.

REVISION DATE: 11/5/2015

