

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: POTASSIUM PHOSPHATE MONOBASIC

CAS #: 7778-77-0

FORMULA: KH₂PO₄

SYNONYM: Phosphoric acid, monopotassium salt; Potassium dihydrogen phosphate

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	778-77-0	99-100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAYBE HARMFUL IF SWALLOWED OR INHALED.

PRIMARY ROUTES OF EXPOSURE:

EYE CONTACT: May cause irritation, redness and pain.

SKIN CONTACT: Irritant due to its acidic nature. May cause inflammation and pain on prolonged contact, especially with moist skin.

INHALATION: May cause mild irritation to the respiratory tract.

INGESTION: Phosphates are slowly and incompletely absorbed when ingested, and seldom result in systemic effects. Such effects, however, have occurred. Symptoms may include vomiting, lethargy, diarrhea, blood chemistry effects, cardiac effects and central nervous system effects. The toxicity of phosphates is because of their ability to sequester calcium. Acute potassium intoxication by mouth is rare because large single doses usually induce vomiting and because in the absence of pre-existing kidney damage, potassium is rapidly excreted. Potassium poisoning can result in heart effects, change in respiration rate, tingling in the extremities, heaviness in the limbs, nausea and diarrhea.

CHRONIC HEALTH EFFECTS: May sequester calcium and cause calcium phosphate deposits in the kidneys.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as

difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: no data
AUTO IGNITION TEMPERATURE: no data
EXPLOSION LIMITS: Not considered to be an explosion hazard.
EXTINGUISHING MEDIUM: Use any means suitable for extinguishing surrounding fire.
SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container . Store in a cool, dry, ventilated area.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.
SKIN PROTECTION: Chemical-resistant.
VENTILATION: If possible, handle the material in an efficient fume hood.
RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white granular powder
MOLECULAR WEIGHT: no data
MELTING POINT (DEG. C.): 253C
BOILING POINT: 400C
VAPOR PRESSURE: no data
SPECIFIC GRAVITY: no data
SOLUBILITY IN WATER: no data

SECTION 10 Stability and Reactivity

STABILITY: Stable under ordinary conditions of use and storage
HAZARDOUS POLYMERIZATION: will not occur
CONDITIONS TO AVOID: no data

INCOMPATIBILITY: no incompatibility data found

DECOMPOSITION PRODUCTS: Phosphorus oxides may form when heated to decomposition

SECTION 11 Toxicological Information

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

non-hazardous

Non-hazardous

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound not listed

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 10/05