

POTASSIUM PHOSPHATE MONOBASIC

Material Safety Data Sheet

Mallinckrodt Chemical Inc.

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Emergency Telephone Number
314-539-1600

Effective Date: 05-09-91 Supersedes 08-13-85

PRODUCT IDENTIFICATION:

Synonyms: Phosphoric acid, monopotassium salt; potassium dihydrogen phosphate

Formula CAS No.: 7778-77-0

Molecular Weight: 136.09

Hazardous Ingredients: Not applicable.

Chemical Formula: KH₂PO₄

PRECAUTIONARY MEASURES

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

EMERGENCY FIRST AID

SEE SECTION 5.

Physical Data

SECTION 1

Appearance: White granular powder.

Odor: Odorless.

Solubility: 22 g in 100 g of water.

Boiling Point: Not applicable.

Vapor Density (Air=1): No information found.

Melting Point: Decomposes @ 400 C (252 F).

Vapor Pressure (mm Hg): No information found.

Specific Density: 2.34

Evaporation Rate: No information found.

Fire and Explosion

Information

SECTION 2

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

Use protective clothing and breathing equipment appropriate for the surrounding fire.

Reactivity Data

Stability:

SECTION 3

Stable under ordinary conditions of use and storage.

Hazardous Decomposition

Products: Possibly oxides of phosphorous or potassium at high temperatures.

Hazardous Polymerization: This substance does not polymerize.

Incompatibilities: No incompatibility data found.

Leak/Spill Disposal Information SECTION 4

Ventilate area or leak or spill. Clean-up personnel may require protective clothing and respiratory protection from dust. Spills: Sweep up and containerize for reclamation or disposal. Avoid dust dispersal. Trace residue may be flushed to sewer with large amounts of water. Disposal: Whatever cannot be saved for reclamation may be disposed in an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

Health Hazard Information SECTION 5

A. Exposure/Health Effects

Inhalation: Dust may have a slightly acidic irritating effect on the nasal and respiratory passages.

Ingestion: Not considered particularly toxic but may cause gastro-intestinal upset, possible vomiting and diarrhea if large amounts are ingested. Can sequester calcium in the body.

Skin Contact: No adverse effects expected.

Eye Contact: Mild irritant effects due to its acidic nature.

Chronic Exposure: Potassium phosphate may sequester calcium and cause calcium phosphate deposits in the kidneys.

Aggravation of Pre-existing Conditions: Persons with impaired kidney function may be more susceptible to the effects of the substance.

B. FIRST AID

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Exposure: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Exposure: Wash eyes with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

C. TOXICITY (RTECS, 1986)

No LD50/LC50 information found relating to normal routes of occupational exposure.

Occupational Control Measures SECTION 6

Airborne Exposure Limits: None established.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this

For conditions of use where exposure to the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Wear protective gloves and clean body-covering clothing.

Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

Keep in a tightly closed container, stored in a cool, dry, ventilated area.
Protect against physical damage.

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Addendum to Material Safety Data Sheet

REGULATORY STATUS

Hazard Categories for SARA Section 311/312 Reporting

	Acute	Chronic	Fire	Pressure	Reactive	
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SARA Section 302 EHS RQ:
Reportable Quantity of Extremely Hazardous Substance, listed at 40 CFR 355.

SARA Section 302 EHS TPQ:
Threshold Planning Quantity of Extremely Hazardous substance. An asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the Threshold Planning Quantity = 10,000 LBS.

SARA Section 313 Chemicals:
Toxic Substances subject to annual release reporting requirements
listed at 40 CFR 372.65.

CERCLA Sec. 103:

Comprehensive Environmental Response, Compensation and Liability Act (Superfund)
Releases to air, land or water of these hazardous substances which exceed the
Reportable Quantity (RQ) must be reported to the National Response Center,
(800-424-8802); Listed at 40 CFR 302.4

RCRA:

Resource Conservation and Recovery Act. Commercial chemical product wastes
designated as acute hazards and toxic under 40 CFR 261.33

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