

Mallinckrodt®

POTASSIUM PHOSPHATE TRIBASIC

Material Safety Data Sheet

Emergency Telephone Number
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Effective Date: 09-05-85

PRODUCT IDENTIFICATION:

Synonyms: Phosphoric acid tripotassium salt; tripotassium phosphate

Formula CAS No.: 7778-53-2

Molecular Weight: 212.27

Chemical Formula: K_3PO_4 Hazardous Ingredients:
CAS# 1310-58-3 Potassium Hydroxide.

PRECAUTIONARY MEASURES

DANGER! CAUSES BURNS. HARMFUL IF SWALLOWED OR INHALED.

Do not get in eyes, on skin, or on clothing.
Avoid breathing dust.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

EMERGENCY/FIRST AID

If swallowed, DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes.
In all cases call a physician.
SEE SECTION 5.

DOT Hazard Class: Not Regulated

Physical Data SECTION 1

Appearance: White powder

Odor: Odorless.

Solubility: 50 grams in 100 grams of water (strongly alkaline).

Boiling Point: Not applicable.

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

Melting Point: ca 1360°C (ca 2464°F).

Vapor Pressure (mm Hg): No information found.

Density: 2.5

Evaporation Rate: No information found.

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SECTION 2

Fire and Explosion Information

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: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 3

Reactivity Data

Stability: Stable under ordinary conditions of use and storage.

Absorbs moisture from the air and becomes alkaline.

Hazardous Decomposition Products: Oxides of phosphorus and the contained metal.

This substance does not polymerize.

Incompatibilities: Acidic materials.

Leak/Spill Disposal Information SECTION 4

Ventilate area of leak or spill. Clean-up personnel may require respiratory protection from dust.

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Disposal: Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

Potassium Phosphate
tribasic

Health Hazard Information

SECTION 3

A. Exposure/Health Effects

Inhalation:

Caustic irritant dust, may cause some burning or attack on mucous membranes of nasal or respiratory passages. Sneezing or coughing and breathing difficulties are symptoms.

Ingestion:

Caustic alkaline action, possibly harmful to the esophagus and stomach. Abdominal pain, cramping, vomiting or diarrhea may follow ingestion. Potassium salts may also cause cardiac effects.

Skin Contact:

Caustic burns may occur on prolonged contact, especially on moist skin. Reddening, soreness or possible damage to the derma may occur.

Eye Contact:

Caustic irritant. Pain, tearing and redness are symptoms.

Chronic Exposure:

Continued ingestion or absorption of phosphate and potassium can lead to renal disorders and in acute cases, potassium poisoning. The latter can involve circulatory complications, partial paralysis and ulcers of the stomach.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

B. FIRST AID

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Exposure:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Exposure:

Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

C. TOXICITY DATA (RTECS, 1982)

Oral rat LD50: 7400 mg/kg.

Occupational Control Measures

SECTION 6

Airborne Exposure Limits:

-ACGIH Threshold Limit Value (TLV):
2 mg/m³ (Ceiling) for potassium hydroxide.

Ventilation Systems:

A system of local exhaust is recommended to keep employee exposures below the Airborne Exposure Limit. Local exhaust ventilation is generally preferred because it can control the emissions of the dust or vapor at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

Personal Respirators (NIOSH Approved)

If the TLV is exceeded, a dust/mist respirator with chemical goggles may be worn, in general, up to ten times the TLV. Consult respirator supplier for limitations. Alternatively, a supplied air full facepiece respirator or airlined hood may be worn.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Contact lenses should be worn when working with this material.

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

Storage and Special Information SECTION 7

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

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