

Mallinckrodt

Material Safety Data

Emergency Phone Number: 314-982-5000

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POTASSIUM IODIDE

PRODUCT IDENTIFICATION:

Synonyms: Potide; hydroiodic acid, potassium salt

Formula CAS No.: 7681-11-0

Molecular Weight: 166.0

Chemical Formula: KI

Hazardous Ingredients: None.

PRECAUTIONARY MEASURES

CAUTION: MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.

EMERGENCY/FIRST AID

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. SEE SECTION 5.

DOT Hazard Class: Not Regulated

SECTION 1 Physical Data

Appearance: White crystals.

Odor: Odorless.

Solubility: 140 grams/100 gm in water.

Boiling Point: 1420°C (2588°F)

Melting Point: 723°C (1333°F)

Density: 3.1

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

Vapor Pressure (mm Hg): 1 at 745°C (1373°F)

Evaporation Rate: No information found.

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.

Hazardous Decomposition Products:

Oxides of the contained metal and halogen, possibly also free, or ionic halogen.

Hazardous Polymerization:

This substance does not polymerize.

Incompatibilities:

Diazonium salts; diisopropyl peroxycarbonate; oxidants; bromine and chlorine trifluorides, fluorine perchlorate.

SECTION 4 Leak/Spill Disposal Information

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.

SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:

Inhalation of dust may cause irritation of respiratory tract.

Ingestion:

Large doses may cause gastrointestinal upset and weakness.

Skin Contact:

May cause mild irritation and reddening on prolonged contact.

Eye Contact:

Can be irritating to the eyes, with redness, pain.

Chronic Exposure:

Chronic ingestion of iodides may produce "iodism," which may be manifested by skin rash, running nose, headache and irritation of mucous membranes. Weakness, anemia, loss of weight, and general depression may also occur.

Aggravation of Pre-existing Conditions:

No information found.

B. FIRST AID

Inhalation:

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

Ingestion:

If patient swallowed large quantities and is conscious, give large quantities of water to swallow, then induce vomiting by inserting finger to back of throat. Call a physician.

Skin Exposure:

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

Eye Exposure:

Wash thoroughly with running water. Get medical advice if irritation develops.

C. TOXICITY DATA

(RTECS, 1982)

Mutation references cited. Reproductive effects

cited.

SECTION 6 Occupational Control Measures

Airborne Exposure Limits:

None established.

Ventilation System:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators: (NIOSH Approved)

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.

Skin Protection:

Gloves and lab coat, apron or coveralls.

Eye Protection:

Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 7 Storage and Special Information

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect from physical damage and direct sunlight.

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