

Mallinckrodt

Material Safety Data

Emergency Phone Number: 314-962-5000

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Mallinckrodt, Inc., Science Products Division, P. O. Box M, Paris, KY 40361.

POTASSIUM CHLORIDE

PRODUCT IDENTIFICATION:

Synonyms: Potassium monochloride; sylvite
Formula CAS No.: 7447-40-7
Molecular Weight: 74.55
Chemical Formula: KCl
Hazardous Ingredients: Not applicable.

PRECAUTIONARY MEASURES

WARNING! MAY CAUSE IRRITATION.
Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.

EMERGENCY/FIRST AID

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
SEE SECTION 5.
DOT Hazard Class: Not Regulated

SECTION 1 Physical Data

Appearance: Colorless or white crystals.
Odor: Odorless.
Solubility: 35.7g/100g of water.
Boiling Point: Sublimes at 1500°C.
Melting Point: 772°C (1422°F).
Density: 1.987
Vapor Density (Air=1): No information found.
Vapor Pressure (mm Hg): No information found.
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 Polymerizations:
This substance does not polymerize.

Incompatibilities:
Bromine trifluoride; potassium permanganate plus sulfuric acid.

SECTION 4 Leak/Spill Disposal Information

Sweep, scoop or pick up spilled material. Collected waste may be transferred to a closed, preferably metal, container and sent to an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

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Effective Date: 08-26-85

POTASSIUM CHLORIDE

SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:

Inhalation of high concentrations of dust may cause nasal or lung irritation.

Ingestion:

Large quantities can produce gastrointestinal irritation and vomiting. May produce weakness and circulatory problems.

Skin Contact:

Contact may cause irritation or rash, particularly with moist skin.

Eye Contact:

Potassium chloride is an eye irritant. Redness, tearing, possible abrasion can occur.

Chronic Exposure:

No information found.

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:

Remove any contaminated clothing. Wash skin with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

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: 3020mg/kg. Irritation Eye rabbit: 500 mg/24 hr SEV. Mutation references cited.

SECTION 6 Occupational Control Measures

Airborne Exposure Limits:

None established.

Ventilation System:

A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

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:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. 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 against physical damage.

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