

Mallinckrodt

Material Safety Data

Emergency Phone Number: 314-982-5000

POTASSIUM CHLORIDE, SAT. SOL.

PRODUCT IDENTIFICATION:

Synonyms: Potassium monochloride, solution; sylvite solution

Formula CAS No.: 7447-40-7

Molecular Weight: 74.55

Chemical Formula: KCl (in aqueous solution)

Hazardous Ingredients: Not applicable.

PRECAUTIONARY MEASURES

CAUTION! MAY CAUSE IRRITATION TO SKIN AND EYES.

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. In case of eye contact, get medical advice.

SEE SECTION 5.

DOT Hazard Class: Not Regulated

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Mallinckrodt, Inc., Science Products Division, P.O. Box M, Paris, KY 43061.

SECTION 1 Physical Data

Appearance: Clear, colorless solution.

Odor: Odorless.

Solubility: Miscible with water.

Boiling Point: ca. 103°C (217°F)

Melting Point: ca. -4.5°C (24°F)

Density: ca. 1.3

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, at very high temperatures.

Hazardous Polymerization:

This substance does not polymerize.

Incompatibilities:

No incompatibility data found.

SECTION 4 Leak/Spill Disposal Information

Ventilate area of leak or spill. Clean-up personnel may require protective clothing. Absorb spills with dry absorbent or dilute with large quantities of water and handle as non-hazardous waste.

Ensure compliance with local, state and federal regulations.

Effective Date: 10-31-85

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SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:

No adverse effects expected.

Ingestion:

Extremely large oral dosages may produce gastrointestinal disturbances, purging, weakness and circulatory problems.

Skin Contact:

No adverse effects expected but splashes may cause mild irritation.

Eye Contact:

Solution will irritate eyes. (Similar to strong salt solution.)

Chronic Exposure:

Prolonged ingestion may cause kidney damage.

Aggravation of Pre-existing Conditions:

No information found.

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:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

C. TOXICITY DATA (RTECS, 1982)

Potassium Chloride [7447-40-7]: Oral rat LD50: 3020 mg/kg Irritation rabbit, eye: 500 mg/24H severe. Mutation references 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)

Not expected to require personal respirator usage.

Skin Protection:

Gloves and lab coat, apron or coveralls.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing from 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, direct sunlight, and freezing. Maintain at room temperature. Material will crystallize at lower temperatures.

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