

MATERIAL SAFETY DATA SHEET

POTASSIUM HYDROGEN TARTRATE

PRODUCT CODE NUMBER(S): 6130-1

PRODUCT IDENTIFICATION

Chemical Name and Synonyms: Potassium hydrogen tartrate; Potassium hydrogen L-tartrate; Cream of tartar

Chemical Family: Tartrates, potassium compounds

Chemical Formula: $C_4H_5KO_6$

Product Use: Laboratory reagent

Manufacturer's Name and Address:

Caledon Laboratories Ltd.

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HAZARDOUS INGREDIENTS OF MATERIALS

Ingredients	%	TLV Units	CAS No.
Potassium hydrogen L-tartrate	99	Not established	868-14-4

PHYSICAL DATA

Physical State: Solid

Odour and Appearance: White powder, odourless.

Odour Threshold (ppm): Not applicable

Vapour Pressure (mm Hg): Not applicable

Vapour Density (Air = 1): Not applicable

Evaporation Rate: Not applicable

Boiling Point (degrees C): 200-220°C (decomposes)

Melting Point (degrees C): Not available

pH: 3.0 to 4.5 (0.01M in water)

Specific Gravity: 1.984 @ 18°C

Coefficient of Water/Oil distribution: Not available

SHIPPING DESCRIPTION

UN: Not regulated

T.D.G. Class: Not regulated

Pkg. Group: Not regulated

REACTIVITY DATA

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility with other substances: May react with strong alkalis.

Reactivity: Avoid excessive heat, ignition sources, incompatible materials, generation of dust.

Hazardous Decomposition Products: CO, CO₂

FIRE AND EXPLOSION DATA

Flammability: May be combustible if strongly heated. As with most organic compounds, fine dust dispersed in air in the presence of an ignition source is a potential dust explosion hazard.

Extinguishing Media: Use extinguishing media appropriate to the surrounding fire. Water in flooding amounts can be used to cool containers, prevent dust formation, flush chemical away from fire. Firefighters should wear protective equipment and clothing sufficient to prevent inhalation of dust or fumes and contact with skin and eyes.

Flash Point (Method Used): Not applicable

Autoignition Temperature: Not applicable

Upper Flammable Limit (% by volume): Not applicable

Lower Flammable Limit (% by volume): Not applicable

Hazardous Combustion Products: CO, CO₂

Sensitivity to Impact: None

Sensitivity to Static discharge: Under certain conditions, dust/air mixtures can probably explode if in contact with an electrostatic spark or other ignition source.

TOXICOLOGICAL PROPERTIES AND HEALTH DATA

Toxicological Data:

LD₅₀: Not available.

LC₅₀: Not available.

LD_{L0}: 22 g/kg (oral, rat)

Effects of Acute Exposure to Product:

Inhaled: High concentrations of dust may cause irritation of the nasal and respiratory passages. Does not form vapour.

In contact with skin: May cause mild mechanical irritation.

In contact with eyes: May cause mild mechanical irritation.

Ingested: Irritant. May be harmful in large doses; has laxative properties.

Effects of Chronic Exposure to Product:

Carcinogenicity: Not considered carcinogenic

Teratogenicity: No human or animal information available

Reproductive Effects: No human or animal information available

Mutagenicity: No human or animal information available

Synergistic Products: None known.

PREVENTIVE MEASURES

Engineering Controls: Local exhaust recommended.

Respiratory Protection: Dust mask. NIOSH/OSHA approved half-face dust/mist respirator for dusty conditions. For high or unknown concentrations, as in fire or spill conditions, full face-piece, positive-pressure, self-contained breathing apparatus.

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Eye Protection: Chemical safety glasses. Do not wear contact lenses when working with chemicals.

Skin Protection: Rubber or plastic gloves. Other protective clothing, long sleeved shirt, trousers, apron or lab coat and boots as required to limit contact.

Other Personal Protective Equipment: Safety shower and eye-wash fountain in work area.

Leak and Spill Procedure: If dust is present, eliminate sources of ignition. Wet if necessary to control dust. Cleanup personnel should be trained in the handling of hazardous chemicals and should wear protective equipment and clothing sufficient to prevent inhalation of dust, mist or fumes, and contact with skin and eyes. Prevent from entering sewers or waterways. Collect in a manner that does not raise dust, transfer carefully into container, and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

Waste Disposal: Follow all federal, provincial and local regulations for disposal.

Handling Procedures and Equipment: May be COMBUSTIBLE as DUST. Workers using this chemical must be properly trained in its hazards and its safe use. Avoid generating dust. If there is dust, keep away from heat, sparks, and all sources of ignition; avoid the accumulation of static charge, use anti-sparking tools and ground and bond equipment and containers. Use the smallest amount possible for the purpose, in a designated area with adequate ventilation. Use good housekeeping to prevent accumulations of dust. Avoid contact with skin and eyes. Avoid inhalation. Wash thoroughly after handling.

Storage Requirements: Store in suitable, labelled containers, in a cool, dry, well-ventilated area, out of direct sunlight and away from heat and ignition sources and incompatible materials. Protect from moisture. Keep container tightly closed. Protect from damage.

FIRST AID MEASURES

Specific Measures:

Eyes: Allow eyes to water naturally for a few minutes to dislodge particle. Do not allow victim to rub eyes. Flush eyes thoroughly with gently running water, holding eyelids open while flushing, for five to ten (5-10) minutes, or until no trace of chemical remains. Get medical advice if irritation develops.

Skin: Remove contaminated clothing. Brush or wipe off dry material. Flush skin with plenty of running water until no evidence of chemical remains. If irritation develops get medical attention.

Inhalation: Remove to fresh air. Give oxygen and get medical attention for any breathing difficulty.

Ingestion: If victim is alert and NOT convulsing, rinse mouth, give several glasses of water to drink to dilute. If discomfort occurs, or if a large amount has been ingested, get medical attention.

REFERENCES USED

Budavari: *The Merck Index*, 12th ed., 1997

Sax, Lewis: *Hawley's Condensed Chemical Dictionary*, 11th ed., 1987

Sax: *Dangerous Properties of Industrial Materials*, 5th ed., 1979

Suppliers' Material Safety Data Sheets

ADDITIONAL INFORMATION

Date Issued: August 19, 1991

Revision: October 2011

MSDS: 6130-1

Proposed WHMIS Designation: Not a controlled product. Not required to be updated every three years (WHMIS 1992, B-40, Section 29,2)

Prepared by: Caledon Laboratories Ltd. (905) 877-0101
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