

ANTIMONY POTASSIUM TARTRATE

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1. Product Identification

Synonyms: 2,3-Dihydroxybutanedioic acid antimony potassium salt; tartar emetic; Tartaric acid, antimony potassium salt; Antimonyl potassium tartrate trihydrate; 2,3-Dihydroxybutanedioic acid, antimonyl potassium salt trihydrate

CAS No.: 28300-74-5

Molecular Weight: 667.85

Chemical Formula: $C_8H_4K_2O_{12}Sb_2 \cdot 3H_2O$

Product Codes: CHEM-591 and others

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Antimony Potassium Tartrate Trihydrate	28300-74-5	100	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS THE CARDIOVASCULAR SYSTEM.

SAF-T-DATA^(tm) Ratings

Health Rating: 3 - Severe (Poison)

Flammability Rating: 1 - Slight

Reactivity Rating: 1 - Slight

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Blue (Health)

Potential Health Effects

Inhalation:

May cause irritation to the respiratory tract, symptoms include sore throat, coughing, and shortness of breath.

Ingestion:

Toxic! May cause salivation, cough, metallic taste, nausea, vomiting, bloody diarrhea, dizziness, irritability, and muscular pains. May cause heart to beat irregularly or stop.

Skin Contact:

May cause irritation with redness and pain.

Eye Contact:

May cause irritation, redness and pain.

Chronic Exposure:

Prolonged or repeated skin exposure may cause dermatitis. Prolonged or repeated inhalation of dusts may cause blood, liver and CNS effects, heart muscle damage, laryngitis, headache, weight loss, and anemia.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders, impaired respiratory function, or heart disorders (or disease) may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

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

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

Eye Contact:

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

5. Fire Fighting Measures

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.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. The MSDS contains all of the information required by the CPR.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL):

0.5 mg (Sb)/m³ (TWA)

-ACGIH Threshold Limit Value (TLV):

0.5 mg(Sb)/m³ (TWA)

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant 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 exposure limit is exceeded and engineering controls are not feasible, a full facepiece particulate respirator (NIOSH type N100 filters) may be worn for up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Transparent crystals, or white powder.

Odor:

Odorless.

Solubility:

8 g/100 ml water @ 20°C (68°F)

Specific Gravity:

2.6

pH:

Slightly acidic (aqueous solution).

% Volatiles by volume @ 21°C (70°F):

0

Boiling Point:

No information found.

Melting Point:

ca. 100°C (ca. 212°F) Loses water

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

No information found.

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

No information found.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Alkali metals and their carbonates, Perchloric Acid, and reducing agents. Reduction may form stilbene.

Conditions to Avoid:

Incompatibles.

11. Toxicological Information

For $C_4H_4O_7SbK$: Oral rat LD50: 115 mg/kg. Investigated as a tumorigen and mutagen.

Ingredient	Cancer Lists			IARC Category
	NTP Carcinogen			
	Known	Anticipated		
Antimony Potassium Tartrate (11071-15-1)	No	No		None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: ANTIMONY POTASSIUM TARTRATE

Hazard Class: 6.1

UN/NA: UN1551

Packing Group: III

Information reported for product/size: 2.5KG

International (Water, I.M.O.)

Proper Shipping Name: ANTIMONY POTASSIUM TARTRATE

Hazard Class: 6.1

UN/NA: UN1551

Packing Group: III

Information reported for product/size: 2.5KG

International (Air, I.C.A.O.)

Proper Shipping Name: ANTIMONY POTASSIUM TARTRATE

Hazard Class: 6.1

UN/NA: UN1551

Packing Group: III

Information reported for product/size: 2.5KG

15. Regulatory Information

Chemical Inventory Status - Part 1

Ingredient	TSCA	EC	Japan	Australia
Antimony Potassium Tartrate (11071-15-1)	Yes	Yes	Yes	Yes

Chemical Inventory Status - Part 2

Canada

Ingredient	Korea DSL	NDSL	Phil.
Antimony Potassium Tartrate (11071-15-1)	No	Yes	No

Federal, State & International Regulations - Part 1

SARA 302 SARA 313

Ingredient	RQ	TPQ	List	Chemical Catg.
Antimony Potassium Tartrate (11071-15-1)	No	No	No	Antimony com

Federal, State & International Regulations - Part 2

RCRA TSCA

Ingredient	CERCLA	261.33	8(d)
Antimony Potassium Tartrate (11071-15-1)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Pure / Solid)

Australian Hazchem Code: 2X

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 2 Flammability: 0 Reactivity: 0

Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS THE CARDIOVASCULAR SYSTEM.

Label Precautions:

Avoid breathing dust.

Avoid contact with eyes, skin and clothing.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. 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 eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases call a physician.

Product Use:

Laboratory Reagent and Consumer Hobby

Revision Information:

No Changes.

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