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Since 1985



**TECHNO PHARMCHEM**

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)  
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)  
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)  
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## ANTIMONY POTASSIUM TARTRATE

### 1. Product Identification

Synonyms: 2,3-Dihydroxybutanedioic acid antimony potassium salt; tartar emetic;

Tartaric acid, antimony potassium salt; Antimonyl potassium tartrate, trihydrate

CAS No.: 11071-15-1 (Anhydrous); 28300-74-5 (Trihydrate)

Molecular Weight: 667.87

Chemical Formula:  $C_4H_4K_2O_{12}Sb_2 \cdot 3H_2O$

Product Codes: 39303 , 39304

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Antimony Potassium Tartrate	28300-74-5	99 - 100%

### 3. Hazards Identification

Potential Health Effects

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

Ingestion: 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.

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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## 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.

## 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)/m<sup>3</sup> (TWA)

-ACGIH Threshold Limit Value (TLV): 0.5 mg(Sb)/m<sup>3</sup> (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.

**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.

**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 @ 20C (68F)

**Specific Gravity:** 2.6

**pH:** Slightly acidic (aqueous solution).

**% Volatiles by volume @ 21C (70F):** 0

**Boiling Point:** No information found.

**Melting Point:** ca. 100C (ca. 212F) 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.

**Conditions to Avoid:** Incompatibles.

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#### 11. Toxicological Information

For C<sub>4</sub>H<sub>4</sub>O<sub>7</sub>SbK: Oral rat LD<sub>50</sub>: 115 mg/kg. Investigated as a tumorigen and mutagen.

-----\Cancer Lists\-----

-----NTP Carcinogen-----

Ingredient	Known	Anticipated	IARC Category
Antimony Potassium Tartrate (28300-74-5)	No	No	None

#### 12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

#### 13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

#### 14. Transport Information

Not Regulated

#### 15. Regulatory Information

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

Reactivity: No (Pure / Solid)

Poison Schedule: None allocated.

#### 16. Other Information

Product Use:

Laboratory Reagent.