Material Safety Data Sheet
Antimony potassium tartrate trihydrate

ACC# 01690

Section 1 - Chemical Product and Company Identification

MSDS Name: Antimony potassium tartrate trihydrate
Product Grade: SQ
Catalog Numbers: 16425
Synonyms: Antimony Potassium Tartrate
Company Identification:
Fisher Scientific
Part of Thermo Fisher Scientific
Thermo Fisher Scientific India Pvt. Ltd
403-404, B-wing, Delphi,
Hiranandani Business Park,
Powai (E), Mumbai 400076, INDIA.

For information, call: 022 – 6680 3001/2, Call India Toll Free – 1 800 209 7001
Emergency Number: 022-66803004/14
For CHEMTREC assistance, call: 800-424-9300 [International]
For International CHEMTREC assistance, call: 703-527-3887 [International]

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>28300-74-5</td>
<td>Antimony potassium tartrate trihydrate</td>
<td>100</td>
<td>unlisted</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless or white crystals.

Warning! Harmful if swallowed. Causes eye, skin, and respiratory tract irritation. May cause liver, kidney and heart damage.

Target Organs: Kidneys, heart, liver.

Potential Health Effects
Eye: Causes eye irritation. May cause chemical conjunctivitis.
Skin: Causes skin irritation.
Ingestion: Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Inhalation: May cause nausea, vomiting, abdominal pain, diarrhea, chest tightness, weakness, and delayed pulmonary edema. Antimony compounds may enter the body through the lungs. Causes irritation of the mucous membrane and upper respiratory tract.
Chronic: Prolonged or repeated skin contact may cause dermatitis. Effects may be delayed. Laboratory experiments have resulted in mutagenic effects. Prolonged exposure may cause liver, kidney, and heart damage.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.
Notes to Physician: Treat symptomatically and supportively.
Antidote: The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Flash Point: Not available.
Autoignition Temperature: Not available.
Explosion Limits, Lower: Not available.
Upper: Not available.
NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0
Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

**Handling:** Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Do not ingest or inhale. Wash clothing before reuse.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony potassium tartrate trihydrate</td>
<td>0.5 mg/m3 TWA (listed under Antimony)</td>
<td>0.5 mg/m3 TWA (listed under Antimony).50 mg/m3 IDLH (listed under Antimony)</td>
<td>0.5 mg/m3 TWA (listed under Antimony).</td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:** Antimony potassium tartrate trihydrate: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.
**Section 9 - Physical and Chemical Properties**

**Physical State:** Crystals  
**Appearance:** colorless or white  
**Odor:** odorless  
**pH:** slightly acidic  
**Vapor Pressure:** Not available.  
**Vapor Density:** Not available.  
**Evaporation Rate:** Not available.  
**Viscosity:** Not available.  
**Boiling Point:** Not available.  
**Freezing/Melting Point:** 100 deg C  
**Decomposition Temperature:** 100 deg C  
**Solubility:** 8.3% in water.  
**Specific Gravity/Density:** 2.6 @20C  
**Molecular Formula:** C8H4K2O12Sb2.3H2O  
**Molecular Weight:** 667.6776

**Section 10 - Stability and Reactivity**

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials, dust generation, excess heat, strong oxidants.  
**Incompatibilities with Other Materials:** Mineral acids, tannic acid, gallic acid, alkali hydroxides, carbonates, lead salts, silver salts, mercury bichloride, lime water, albumin, alkali carbonates, perchloric acid, soap, strong oxidizing agents.  
**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, antimony/antimony oxides, oxides of potassium.  
**Hazardous Polymerization:** Will not occur.

**Section 11 - Toxicological Information**

**RTECS#:**
CAS# 28300-74-5: CC6825000

LD50/LC50:
CAS# 28300-74-5:
   Oral, mouse: LD50 = 600 mg/kg;
   Oral, rabbit: LD50 = 115 mg/kg;
   Oral, rat: LD50 = 115 mg/kg;

Carcinogenicity:
CAS# 28300-74-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Mutagenicity: Cytogenetic Analysis: Human, Fibroblast = 100 umol/L.; Cytogenetic Analysis: Intraperitoneal, rat = 2 mg/kg.
Neurotoxicity: No information available.
Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Fathead Minnow: TLm = 200 ppm; 96 Hr; Antimony (soft water)
Fish: Fathead Minnow: TLm =12 ppm; 96 Hr; Antimony (hard water)

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th></th>
<th>US DOT</th>
<th>Canada TDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shipping Name:</td>
<td>ANTIMONY POTASSIUM TARTRATE</td>
<td>No information available.</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
<td></td>
</tr>
</tbody>
</table>
Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 28300-74-5 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.

Section 12b
None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs
CAS# 28300-74-5: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.

SARA Codes
CAS# 28300-74-5: immediate, delayed.

Section 313
This material contains Antimony potassium tartrate trihydrate (listed as Antimony), 100%, (CAS# 28300-74-5) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

Clean Water Act:
CAS# 28300-74-5 is listed as a Hazardous Substance under the CWA. CAS# 28300-74-5 is listed as a Priority Pollutant under the Clean Water Act. CAS# 28300-74-5 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE
CAS# 28300-74-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, (listed as Antimony), Massachusetts.

California Prop 65
California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Hazard Symbols:**

- T

**Risk Phrases:**

- R 25 Toxic if swallowed.

**Safety Phrases:**

- S 22 Do not breathe dust.

**WGK (Water Danger/Protection)**

CAS# 28300-74-5: 3

**Canada - DSL/NDSL**

CAS# 28300-74-5 is listed on Canada’s DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of D1B, D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

CAS# 28300-74-5 (listed as Antimony) is listed on the Canadian Ingredient Disclosure List.

---

### Section 16 - Additional Information

**MSDS Creation Date:** October 2013  
**Revision Date:** October 2018

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.