

# ANTIMONY POTASSIUM TARTRATE

APT

## CAUTIONARY RESPONSE INFORMATION

<b>Common Synonyms</b> Potassium antimonyl tartrate Tartar emetic Tartarized antimony Tartrated antimony	Solid  White  Odorless  Sinks in water.
<p><b>AVOID CONTACT WITH SOLID AND DUST. KEEP PEOPLE AWAY.</b>                      Wear dust respirator and rubber overclothing (including gloves).                      Stop discharge if possible.                      Isolate and remove discharged material.                      Notify local health and pollution control agencies.                      Protect water intakes.</p>	
<b>Fire</b>	Not flammable.
<b>Exposure</b>	<p>CALL FOR MEDICAL AID.                      DUST                      POISONOUS IF INHALED OR IF SKIN IS EXPOSED.                      If inhaled will cause dizziness, headache, coughing, or difficult breathing.                      If in eyes, hold eyelids open and flush with plenty of water.                      If breathing has stopped, give artificial respiration.                      If breathing is difficult, give oxygen.</p> <p>SOLID                      Will burn skin and eyes.                      If swallowed will cause nausea, dizziness, loss of consciousness.                      Remove contaminated clothing and shoes.                      Flush affected areas with plenty of water.                      IF IN EYES, hold eyelids open and flush with plenty of water.                      IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting.                      IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.</p>
<b>Water Pollution</b>	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators or nearby water intakes.

<p><b>1. CORRECTIVE RESPONSE ACTIONS</b>                      Dilute and disperse                      Stop discharge</p>	<p><b>2. CHEMICAL DESIGNATIONS</b>                      2.1 <b>CG Compatibility Group:</b> Not listed                      2.2 <b>Formula:</b>                          K<sub>2</sub>OOC·CHOH·CHOH·COO(SbO) 1/2H<sub>2</sub>O                      2.3 <b>IMO/UN Designation:</b> 6.1/1551                      2.4 <b>DOT ID No.:</b> 1551                      2.5 <b>CAS Registry No.:</b> 28300-74-5                      2.6 <b>NAERG Guide No.:</b> 151                      2.7 <b>Standard Industrial Trade Classification:</b>                          51391</p>
<p><b>3. HEALTH HAZARDS</b></p> <p>3.1 <b>Personal Protective Equipment:</b> Dust respirator; rubber or plastic-coated gloves; chemical goggles; tightly woven, close fitting clothes; Bu. Mines approved respirator</p> <p>3.2 <b>Symptoms Following Exposure:</b> Inhalation causes inflammation of membranes of nose and throat, upper respiratory irritation, headache, dizziness. Ingestion causes gastrointestinal upset, strong irritation, vomiting. Contact with eyes or skin causes irritation. Further symptoms of exposure include nervous complaints (i.e., irritability, dizziness, muscular and neurological pain).</p> <p>3.3 <b>Treatment of Exposure:</b> INHALATION: move to fresh air. INGESTION: call physician immediately; use water (plain, soapy, or salty) or milk (3-4 glasses) to provoke vomiting. EYES: flush with water for 15 min.; consult a physician. SKIN: flush with water; wash well with soap and water.</p> <p>3.4 <b>TLV-TWA:</b> 0.5 mg/m<sup>3</sup> (as antimony)                      3.5 <b>TLV-STEL:</b> Not listed.                      3.6 <b>TLV-Ceiling:</b> Not listed.                      3.7 <b>Toxicity by Ingestion:</b> Grade 3; oral rat LD<sub>50</sub> = 115 mg/kg                      3.8 <b>Toxicity by Inhalation:</b> Currently not available.                      3.9 <b>Chronic Toxicity:</b> Currently not available                      3.10 <b>Vapor (Gas) Irritant Characteristics:</b> Currently not available                      3.11 <b>Liquid or Solid Characteristics:</b> Currently not available                      3.12 <b>Odor Threshold:</b> Odorless                      3.13 <b>IDLH Value:</b> 50 mg/m<sup>3</sup> as antimony                      3.14 <b>OSHA PEL-TWA:</b> Not listed.                      3.15 <b>OSHA PEL-STEL:</b> Not listed.                      3.16 <b>OSHA PEL-Ceiling:</b> Not listed.                      3.17 <b>EPA AEGL:</b> Not listed</p>	

## 4. FIRE HAZARDS

- 4.1 **Flash Point:**  
Not flammable
- 4.2 **Flammable Limits in Air:** Not flammable
- 4.3 **Fire Extinguishing Agents:** Not pertinent
- 4.4 **Fire Extinguishing Agents Not to Be Used:** Not pertinent
- 4.5 **Special Hazards of Combustion Products:** Currently not available
- 4.6 **Behavior in Fire:** Currently not available
- 4.7 **Auto Ignition Temperature:** Not pertinent
- 4.8 **Electrical Hazards:** Not pertinent
- 4.9 **Burning Rate:** Not pertinent
- 4.10 **Adiabatic Flame Temperature:** Not pertinent
- 4.11 **Stoichiometric Air to Fuel Ratio:** Not pertinent
- 4.12 **Flame Temperature:** Not pertinent
- 4.13 **Combustion Molar Ratio (Reactant to Product):** Currently not available
- 4.14 **Minimum Oxygen Concentration for Combustion (MOCC):** Not listed

## 5. CHEMICAL REACTIVITY

- 5.1 **Reactivity with Water:** No reaction
- 5.2 **Reactivity with Common Materials:**  
Currently not available
- 5.3 **Stability During Transport:** Stable
- 5.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
- 5.5 **Polymerization:** Not pertinent
- 5.6 **Inhibitor of Polymerization:** Not pertinent

## 6. WATER POLLUTION

- 6.1 **Aquatic Toxicity:**  
20 ppm/96 hr/fathead minnow/TL<sub>50</sub>/ fresh (soft) water  
12 ppm/96 hr/fathead minnow/TL<sub>50</sub>/ fresh (hard) water  
\*as antimony
- 6.2 **Waterfowl Toxicity:** Currently not available
- 6.3 **Biological Oxygen Demand (BOD):**  
Currently not available
- 6.4 **Food Chain Concentration Potential:**  
High
- 6.5 **GESAMP Hazard Profile:**  
Bioaccumulation: 0  
Damage to living resources: 2  
Human Oral hazard: 2  
Human Contact hazard: 1  
Reduction of amenities: 0

## 7. SHIPPING INFORMATION

- 7.1 **Grades of Purity:** Pure, 99-103%
- 7.2 **Storage Temperature:** Ambient
- 7.3 **Inert Atmosphere:** No requirement
- 7.4 **Venting:** Open
- 7.5 **IMO Pollution Category:** Currently not available
- 7.6 **Ship Type:** Currently not available
- 7.7 **Barge Hull Type:** Currently not available

## 8. HAZARD CLASSIFICATIONS

- 8.1 **49 CFR Category:** Keep Away From Food
- 8.2 **49 CFR Class:** 6.1
- 8.3 **49 CFR Package Group:** III
- 8.4 **Marine Pollutant:** No
- 8.5 **NFPA Hazard Classification:** Not listed
- 8.6 **EPA Reportable Quantity:** 100
- 8.7 **EPA Pollution Category:** B
- 8.8 **RCRA Waste Number:** Not listed
- 8.9 **EPA FWPCA List:** Yes

## 9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 **Physical State at 15° C and 1 atm:** Solid
- 9.2 **Molecular Weight:** 334
- 9.3 **Boiling Point at 1 atm:** Not pertinent
- 9.4 **Freezing Point:** Not pertinent
- 9.5 **Critical Temperature:** Not pertinent
- 9.6 **Critical Pressure:** Not pertinent
- 9.7 **Specific Gravity:** 2.60 at 20°C (solid)
- 9.8 **Liquid Surface Tension:** Not pertinent
- 9.9 **Liquid Water Interfacial Tension:** Not pertinent
- 9.10 **Vapor (Gas) Specific Gravity:** Not pertinent
- 9.11 **Ratio of Specific Heats of Vapor (Gas):**  
Not pertinent
- 9.12 **Latent Heat of Vaporization:** Not pertinent
- 9.13 **Heat of Combustion:** Not pertinent
- 9.14 **Heat of Decomposition:** Not pertinent
- 9.15 **Heat of Solution:** Not pertinent
- 9.16 **Heat of Polymerization:** Not pertinent
- 9.17 **Heat of Fusion:** Currently not available
- 9.18 **Limiting Value:** Currently not available
- 9.19 **Reid Vapor Pressure:** Currently not available

## NOTES

# ANTIMONY POTASSIUM TARTRATE

APT

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	N O T  P E R T I N E N T		N O T  P E R T I N E N T		N O T  P E R T I N E N T		N O T  P E R T I N E N T

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
77	8.700		N O T  P E R T I N E N T		N O T  P E R T I N E N T		N O T  P E R T I N E N T