

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 77.00

Revision Date: April 28, 2011

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Antimony Potassium Tartrate

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Antimony potassium tartrate

Synonym: Potassium antimonyl tartrate

CAS#: 28300-74-5

### SECTION 3 — HAZARDS IDENTIFICATION

White crystals or powder. Odorless.

Highly toxic; may be fatal if swallowed.

Harmful if inhaled or absorbed through skin.

Avoid prolonged or repeated exposure. Use only in a chemical fume hood.

When heated to decomposition, emits toxic fumes of K<sub>2</sub>O and Sb.

#### FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-1

Exposure-3

Storage-0

0 is low hazard, 3 is high hazard

### SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Induce vomiting. Call a physician or poison control at once.

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solid.

When heated to decomposition, emits toxic fumes of K<sub>2</sub>O and Sb.

**Fire Fighting Instructions:** Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

None

established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Ventilate area. Wipe up dust with a damp paper towel to avoid generating dust. Place in a sealed bag or container and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #7. Store with arsenates, cyanides, and cyanates.

Store in a cool, dry place. Keep container tightly closed.

Use and dispense powder in a hood.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 0.5 mg/m<sup>3</sup> (as Sb) (ACGIH, OSHA)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

White crystals or powder. Odorless.

Specific gravity: 2.6

Solubility: Soluble in water.

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

Formula weight: 667.86

**SECTION 10 — STABILITY AND REACTIVITY**

The poison gas stibine is formed by the action of acidic reducing agents on antimony compounds.

Shelf life: Indefinite, if stored properly.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Poison by ingestion, severe irritant, lack of coordination, unconsciousness, and possibly death.

ORL-RAT LD<sub>50</sub>: 115 mg/kg

Chronic effects: Anorexia, liver, kidney, lung, respiratory, gastrointestinal, central nervous system damage.

IHL-RAT LC<sub>50</sub>: N.A.

Target organs: liver, kidneys, heart.

SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

**SECTION 12 — ECOLOGICAL INFORMATION**

Toxic to aquatic organisms.

**SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply, before proceeding.

Flinn Suggested Disposal Method #27d is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Antimony Potassium Tartrate

Hazard class: 6.1, Keep away from food

UN number: UN1551

N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed.

**SECTION 16 — OTHER INFORMATION**

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*  
for additional information about laboratory chemicals.**