# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

# Material Safety Data Sheet (MSDS)

Section 1 — Chemical Product and Company Identification

# Antimony Pentachloride

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 Pentachloride Synonym: Antimonic Pentachloride

CAS#: 7647-18-9

## Section 3 — Hazards Identification

Yellow, fuming liquid; offensive odor.

Moderately toxic by inhalation and injestion. Corrosive. May cause skin burns. Reacts violently with water. When heated to decomposition, emits toxic fumes of Cl and Sb.

0 is low hazard, 3 is high hazard

## Section 4 — First Aid Measures

Call a physician, 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: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

### Section 5 — Fire Fighting Measures

Non-flammable liquid. When heated to decomposition, emits toxic fumes of Cl and Sb. Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

## Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and water. Sweep up, place in sealed bag or container and dispose. Ventilate area and 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 #2. Store with acetates, halides, sulfates, sulfates, thiosulfates and phosphates. Store in a Flinn Chem-Saf bag inside a Flinn Saf-Stor can. Store in a cool dry place. Use and dispense 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/m3 (Sb) (OSHA)

#### FLINN AT-A-GLANCE Health-2

Flammability-0 Reactivity-2 Exposure-3 Storage-2

NFPA CODE None Established

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MSDS #: 78.00 Revision Date: November 25, 2002

# Section 9 — Physical and Chemical Properties

Yellow fuming liquid; offensive odor. Solubility: Soluble in chloroform. Decomposes in water. Formula: SbCl5 Formula Weight: 229.04 Specific Gravity: 2.3 Melting Point: 2.8 C Boiling Point: 140 C

# Section 10 — Stability and Reactivity

Avoid contact with heat, alcohols, reacts violently with water. Fumes in moist air. Shelf life: Poor.

### Section 11 — Toxicological Information

Acute effects: Highly toxic, corrosive. Chronic effects: Possible mutagen. Target organs: N.A. ORL-RAT LD50: 1115 mg/kg IHL-RAT LC50: 720 mg/m3/2H SKN-RBT LD50: N.A.

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

### Section 12 — Ecological Information

Data not yet available.

### Section 13 — Disposal Considerations

Please consult with state and local regulations. Flinn Suggested Disposal Method #27d is one option.

### Section 14 — Transport Information

Shipping Name: Antimony pentachloride, liquid Hazard Class: 8, Corrosive UN Number: UN1730

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-601-8), RCRA code D002, D003.

### Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.



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