ANTIMONY TRIFLUORIDE

CAUTIONARY RESPONSE INFORMATION					
Common Synonyms		Solid crystals	White	Odorless	
		Sinks in water.			
Avoid contact with solid. Notify local health and pollution control agencies. Protect water intakes.					
Fire	Not flammable.				
Exposure	CALL FOR MEDICAL AID. SOLID Irritating to skin and eyes. Harmful if swallowed. 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.				
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.				

CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: SbFs 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: 1549 2.5 CAS Registry No.: 7783-56-4 2.6 NAERG Guide No.: 157 2.7 Standard Industrial Trade Classification: 52310

3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Approved respirator, rubber gloves.
- 3.1 Personal Protective Equipment: Approved respirator, rubber gloves.
 3.2 Symptoms Following Exposure: Resemble those of lead and arsenic poisoning. ACUTE POISONING: irritation of the mouth, nose, stomach and intestines; vomiting, purging with bloody stools; slow pulse and low blood pressure; slow, shallow breathing; coma and convulsions sometimes followed by death from cardiac and respiratory exhaustion. CHRONIC POISONING: dryness of throat; pain on swallowing; occasional vomiting and persistent nausea; susceptibility to fainting; diarrhea, loss of appetite and weight; giddiness; dermatitis, either pustular or ulcerative;
- 3.3 Treatment of Exposure: If any symptoms, however slight, are noticed, the affected individual should be removed from contact with the chemical and placed under the care of a physician who is versed in the treatment necessary.
- 3.4 TLV-TWA: 0.5 mg/m³
 3.5 TLV-STEL: Not listed.
- 3.6 TLV-Ceiling: Not listed.
- 3.7 Toxicity by Ingestion: Grade 3; LD₅₀ = 50 to 500 mg/kg (guinea pig)
- 3.8 Toxicity by Inhalation: Currently not available.
- 3.9 Chronic Toxicity: Currently not available
 3.10 Vapor (Gas) Irritant Characteristics: Currently not available
- 3.11 Liquid or Solid Characteristics: Fairly severe skin irritant. May cause pain and second-degree burns after a few minutes' contact.
 3.12 Odor Threshold: Odorless
- 3.13 IDLH Value: 50 mg/m3 as Sb 3.14 OSHA PEL-TWA: Not listed.
- 3.15 OSHA PEL-STEL: Not listed
- 3.16 OSHA PEL-Ceiling: Not listed
- 3.17 EPA AEGL: Not listed

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: Not pertinent
- 4.6 Behavior in Fire: Not pertinent
- 4.7 Auto Ignition Temperature: Not
- 4.8 Electrical Hazards: Not pertinent
- 4.9 Burning Rate: Not flammable 4.10 Adiabatic Flame Temperature: Not
- pertinent 4.11 Stoichometric Air to Fuel Ratio: Not
- 4.12 Flame Temperature: Not pertinent
- 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent
- 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: No
- 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: 200 ppm/<24 hr/tinca vulgaris (fish)/ killed/fresh water
- 6.2 Waterfowl Toxicity: Currently not available
- **6.3 Biological Oxygen Demand (BOD):**Currently not available
- 6.4 Food Chain Concentration Potential: Currently not available
- 6.5 GESAMP Hazard Profile: Not listed

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: 98%
- 7.2 Storage Temperature: Currently not available
- 7.3 Inert Atmosphere: Currently not available
- 7.4 Venting: Currently not available
- 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: Corrosive material
- 8.2 49 CFR Class: 8 8.3 49 CFR Package Group: II
- 8.4 Marine Pollutant: No
- 8.5 NFPA Hazard Classification: Not listed
- 8.6 EPA Reportable Quantity: 1000 pounds
- 8.7 EPA Pollution Category: C
- 8.8 RCRA Waste Number: Not listed
- 8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 Physical State at 15° C and 1 atm: Solid
- 9.2 Molecular Weight: 178.75
- 9.3 Boiling Point at 1 atm: Not pertinent
- 9.4 Freezing Point: 558°F = 292°C = 565°K
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: 4.38 at 21°C (solid)
- 9.8 Liquid Surface Tension: Not pertinent
- 9.9 Liquid Water Interfacial Tension: Not
- 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 TRIFLUORIDE

9.2 SATURATED LI	20 QUID DENSITY	9.: LIQUID HEA	21 T CAPACITY	9. LIQUID THERMA	22 L CONDUCTIVITY	9. LIQUID V	23 ISCOSITY
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		N O T		N O T		N O T
	. PERT-NEXT		PERTINENT		. PERT - NENT		. PERT-NEXT

(degrees F) of water (degrees F) (degrees F) pound-F 34	9.24 SOLUBILITY IN WATER	9.25 SATURATED VAPOR PRESSURE	9.26 SATURATED VAPOR DENSITY	9.27 IDEAL GAS HEAT CAPACITY
36 394.500 3 38 399.299		s Temperature (degrees F) Pounds per square inch	Temperature (degrees F) Pounds per cubic foot	
80 499.599 82 504.399 84 509.199	34 389.699 36 394.500 38 399.299 40 404.099 42 408.799 44 413.599 46 418.399 50 427.899 52 432.699 54 437.500 56 442.299 58 447.099 60 451.799 62 456.599 64 461.399 66 466.199 67 470.899 70 475.699 77 485.299 76 490.099 77 490.099 77 490.599 78 494.799 80 499.599 80 499.599	N O T P E R T I N E N N	N O T P E R T I N E N	N O T P E R T