

ANTIMONY TRIOXIDE

ATX

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms Diantimony trioxide Exelite Flowers of antimony Senarmontite Valentinite Weisspiessglanz	Solid	White	Odorless
Restrict access. AVOID CONTACT WITH SOLID AND DUST. Wear dust respirator and rubber overclothing (including gloves). Notify local health and pollution control agencies. Protect water intakes.			
Fire	Not flammable.		
Exposure	CALL FOR MEDICAL AID. DUST POISONOUS IF INHALED OR IF SKIN IS EXPOSED. If inhaled will cause coughing, difficult breathing or loss of consciousness. 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. SOLID POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED. If swallowed will cause dizziness, nausea, vomiting or 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.		
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Stop discharge Collection Systems: Dredge	2.1 CG Compatibility Group: Not listed. 2.2 Formula: Sb ₂ O ₃ 2.3 IMO/UN Designation: 6.1/1549 2.4 DOT ID No.: 1549 2.5 CAS Registry No.: 1309-64-4 2.6 NAERG Guide No.: 171 2.7 Standard Industrial Trade Classification: 52329
3. HEALTH HAZARDS	
3.1 Personal Protective Equipment: Rubber gloves; safety goggles; dust mask	
3.2 Symptoms Following Exposure: Inhalation causes inflammation of upper and lower respiratory tract, including pneumonitis. Ingestion causes 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. Contact with eyes causes conjunctivitis. Contact with skin causes dermatitis and rhinitis.	
3.3 Treatment of Exposure: If any of the symptoms of poisoning, even slight, are noticed, the affected individual should be removed from contact with the chemical and placed under care of a physician. INGESTION: induce vomiting. EYES: flush with water for at least 15 min. SKIN: wash well with soap and water.	
3.4 TLV-TWA: 0.5 mg/m ³ (as antimony)	
3.5 TLV-STEL: Not listed.	
3.6 TLV-Ceiling: Not listed.	
3.7 Toxicity by Ingestion: Grade 0; oral rat LD ₅₀ = 20,000 mg/kg	
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: Currently not available	
3.12 Odor Threshold: Odorless	
3.13IDLH Value: 50 mg/m ³ 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	7. SHIPPING INFORMATION
4.1 Flash Point: Not flammable	7.1 Grades of Purity: Reagent, 99.9%+; Optical grade
4.2 Flammable Limits in Air: Not flammable	7.2 Storage Temperature: Ambient
4.3 Fire Extinguishing Agents: Not pertinent	7.3 Inert Atmosphere: No requirement
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.4 Venting: Open
4.5 Special Hazards of Combustion Products: Currently not available	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: Currently not available	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature: Not pertinent	7.7 Barge Hull Type: Currently not available
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): Not pertinent	
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	
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: 1000 pounds	
8.7 EPA Pollution Category: C	
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: 291.50	
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: 5.2 at 25°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: 46.3 cal/g	
9.18 Limiting Value: Currently not available	
9.19 Reid Vapor Pressure: Currently not available	

NOTES

ANTIMONY TRIOXIDE

ATX

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
NOT PERTINENT			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

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
INSOLUBLE			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT