



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Antimony (III) sulfide**
PRODUCT NUMBER: 1138
CAS NUMBER: 1345-04-6
SYNONYMS: Antimony sulfide, Black antimony, antimony trisulfide

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P301 + P311	IF SWALLOWED: call a POISON CENTER or doctor/physician.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

EYE CONTACT: Dust may cause moderate irritation of the eyes.

SKIN CONTACT: May cause severe irritation of the skin and dermatitis.

INHALATION: Inhalation of dust can lead to irritation of the respiratory tract. Hydrogen sulfide gas, if formed, is poisonous.

INGESTION: Gastric juices may cause release of toxic hydrogen sulfide.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

ACUTE HEALTH EFFECTS: Hydrogen sulfide gas may cause painful conjunctivitis, headache, nausea, dizziness, pulmonary edema and possible death.

CHRONIC HEALTH EFFECTS: Prolonged exposure to antimony compounds may cause bleeding gums, laryngitis, headache, anemia, skin eruptions, nervous disorders, liver and kidney damage. Carcinogenic in animal studies by RTECS criteria.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Sb₂S₃

Molecular Weight: 339.68

CHEMICAL NAME	CAS#	%
Antimony (III) sulfide	1345-04-6	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediately medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: No data

EXPLOSION LIMITS: No data

EXTINGUISHING MEDIUM: Carbon dioxide or dry powder. Do not use water.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire this material may emit irritating fumes or hydrogen sulfide, sulfur dioxide, and antimony oxide.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Dust may form explosive mixtures with air. Contact with acids gives off hydrogen sulfide, a toxic and flammable gas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear protective equipment and ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not allow material to be released into the environment. Do not let enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: In the case of a spill, the fine powder should be covered with dry sodium carbonate or dolomite in order to reduce the formation of dust. Sweep up the mixture.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Exposure to the atmosphere may lead to release of toxic hydrogen sulfide gas. Avoid contact with skin and eyes. Avoid breathing vapors or mists.

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed container in a dry, cool. And well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Antimony Sulfide	0.5 mg/m ³	TLV	ACGIH
	0.5 mg/m ³	PEL	OSHA
	50 mg/m ³	IDLH	NIOSH
	0.5 mg/m ³	TWA	NIOSH

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: Wear an approved respirator. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Grey to black powder

MOLECULAR WEIGHT: 339.68

BOILING POINT: 1150° C

MELTING POINT: 550° C

SPECIFIC GRAVITY: 4.12

VAPOR PRESSURE: Not applicable

SOLUBILITY IN WATER: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Air and moisture stable

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID: No data available

INCOMPATIBILITY: Oxidizing agents, acids

DECOMPOSITION PRODUCTS: Hydrogen sulfide, sulfur dioxide, and antimony oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral - Rat - > 2,000 mg/kg. LD50 Dermal - Rat - > 2,000 mg/kg.

CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.

MUTAGENIC EFFECTS: No data

TETRATOGENIC EFFECTS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

Do not allow product to reach ground water, watercourse, or sewage systems. Avoid transfer into the environment.

TOXICITY: Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - 14.4 mg/l - 96 h Remarks: (ECHA)
Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata - > 36.6 mg/l -72 h.(OECD Test Guideline 201)

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

DOT: UN1549
Antimony compounds, inorganic, n.o.s.
Class 6.1
PG III

IATA: UN1549
Antimony compound, inorganic, n.o.s
Class 6.1
PG III

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 313 COMPONENTS: Antimony (III) sulfide

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE REVISED: 03/24

SDS DEPT.