



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Antimony (III) Oxide**
PRODUCT NUMBER: 1126
CAS NUMBER: 1309-64-4
SYNONYMS: Antimony trioxide, diantimony trioxide, antimony sesquioxide, antimonous oxide

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Phrases

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	If exposed or concerned: Get medical advice/attention.
P501	Dispose of contents/container to an approved waste disposal plant.

HMIS CLASSIFICATION:

Health: 2 Fire: 0 Physical Hazard: 0

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation. May be harmful if absorbed through skin.

INHALATION: May cause respiratory tract irritation. Toxic if inhaled.

INGESTION: Toxic if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Sb_2O_3

Molecular Weight: 291.52

CHEMICAL NAME	CAS#	%
Antimony (III) Oxide	1309-64-4	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: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.

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. Give oxygen if deemed necessary. If not breathing administer CPR. Get emergency care immediately.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

AUTO IGNITION TEMPERATURE: No data

EXPLOSION LIMITS: No data

EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: None

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate respiratory and protective equipment to avoid all exposure to with the material.

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

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Without creating dust. Sweep up and shovel. Put in a suitable, closed container for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear approved personal protective equipment. Ensure adequate ventilation. Wash thoroughly after using. Avoid formation of dusts.

CONDITIONS FOR SAFE STORAGE: Store in a cool, dry, and well-ventilated area. Keep away from incompatible materials. Store away from oxidizing agents.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS:

Component	Exposure Limits	Basis	Entity
Antimony (III) Oxide	0.5 mg/m ³	REL	USA
	0.5 mg/m ³	PEL	USA
	0.5 mg/m ³	TLV	USA

TLV: Threshold Limit Value over 8 hours of work. REL: Recommended Exposure Limit PEL: Permissible Exposure Limit

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

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

SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: Approved NIOSH dust respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers, and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White solid

MOLECULAR WEIGHT: 291.52

BOILING POINT: 1550° C

MELTING POINT: 655° C

SPECIFIC GRAVITY: 5.67

VAPOR PRESSURE: 1.3 hPa (1 mm Hg)

SOLUBILITY IN WATER: Very slightly soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Not available

INCOMPATIBILITY: Strong reducing agents and strong oxidizing agents.

DECOMPOSITION PRODUCTS: None.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – rat - > 34,600 mg/kg, LD50 – rabbit - > 2,000 mg/kg

CARCINOGENIC EFFECTS: Classified A2 (Suspected for human) by ACGIH. Causes damage to the lungs and mucous membranes.

MUTAGENIC EFFECTS: No data

TETRAOGENIC EFFECTS: No data

RTECS: CC5650000

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

SECTION 12 ECOLOGICAL DATA

Toxicity to fish: Mortality LC50 – Danio rerio (zebra fish) - > 1,000 mg/l – 96 h

Toxicity to daphnia and other aquatic invertebrates: Immobilization EC50 – Daphnia magna (water flea) - > 1,000 mg/l – 48 h

Toxicity to algae: Growth inhibition EC50 – Selenastrum – 67 mg/l – 72 h

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

DOT (US):	UN1549	IATA/IMDG:	UN1549
	Antimony compounds, Inorganic, n.o.s. (Antimony (III) Oxide)		Antimony compound, inorganic, n.o.s. (Antimony (III) Oxide)
	Class 6.1		Class 6.1
	PG III		PG III

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Antimony (III) oxide

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Antimony (III) oxide

NEW JERSEY RIGHT TO KNOW COMPONENTS: Antimony (III) oxide

CALIFORNIA PROP. 65: This product contains Antimony (III) oxide, which the State of California has found to cause cancer.
WARNING!

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.

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