

GHS Safety Data Sheet

SDS No. : SBO01PAEG

Date Issued : 2012/04/06

Last updated : 2022/05/17

Section 1. Identification of the substance or mixture and of the supplier

Product Information

Product name: Sb₂O₃ Antimony(III) oxide

Product number:	Purity	Form	Size(mm) or Shape
SBO01PB	99.7%(2N7)	powder	—
SBO02PB	99.9%(3N)	powder	—
SBO03PB	99.99%(4N)G	powder	—
—	99.999%(5N),	grains	Various sizes

Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.
 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284
 Phone: +81-49-284-1511 Fax: +81-49-284-1351
 Emergency Phone : +81-49-284-1511

Recommended uses and restrictions on use: For research purposes

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity(Oral) : Not classified Carcinogenicity : Category 1B Specific target organ toxicity, single exposure : Category 2 Specific target organ toxicity, repeated exposure : Category 1	Hazardous to the aquatic environment, short-term(acute) hazard : Not classified long-term (chronic) hazard : Not classified	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label: C



Pictograms or symbols:

Warning word: DANGER

Hazard information	Description of precaution
May cause cancer May cause damage to organs (respiratory organs) Causes damage to organs through prolonged or repeated exposure (respiratory organs)	Obtain special instructions. Read and understand all safety precautions before handling. Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Call a POISON CENTER or doctor/physician if you feel unwell. Store locked up. Dispose of contents/ container in accordance with local/national regulations.

Section 3. Composition / information on ingredients

Chemical or common name: Antimony(III) oxide
 Chemical formula: Sb₂O₃
 Single Substance or Compound: Single substance



High Purity Materials

KOJUNDO CHEMICAL LABORATORY CO.,LTD.

Composition:	100%
CAS #:	1309-64-4
RTECS#:	CC5650000
TSCA inventory :	Listed
EINECS:	2151750

Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

Section 5. Fire fighting measures

Extinguishing media:	The product is not combustible. Use media appropriate for surrounding fire.
Fire fighting:	In case of fire, may liberate toxic gases/ fume. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed DOT-approved waste container as much as possible. Carefully collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling:	Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen. Avoid prolonged or repeated exposure.
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Precautions to be taken in storage:

General precautions:	Store the material in a sealed container. Store in a cool, dry, well ventilated and dark place away from incompatible materials.
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Section 8. Exposure controls / personal protection

Exposure guideline:	Chemical Name	ACGIH(2019) TLV	OSHA(2006) PEL
		TWA mg/m³	TWA mg/m³
	Antimony compounds (as Sb)	0.5	0.5



Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, impervious gloves, protective wear, protective boots.

Section 9. Physical and chemical properties

Appearance: White solid, odorless.

Chemical formula: Sb₂O₃

Formula weight: 291.5

Melting point: 656 °C

Boiling point: 1550 °C

Density: 5.7 g/cm³

Solubility in water: Slightly soluble

Flammability: Non-combustible substance

Oxidation: None

Section 10. Stability and reactivity

Stability: Stable in closed container at room temperature.

Reactivity:

Incompatibility: Bromine trifluoride, chlorinated rubber, perchloric acid, acids, strong oxidizing agents, strong reducing agents, metal powders

Section 11. Toxicological information

Acute toxicity(Oral): GHS : Not classified

Skin corrosive / irritation: GHS : No data available

Serious eye damage / irritation: GHS : Not classified

Respiratory sensitization: GHS : No data available

Skin sensitization: GHS : No data available

Germ cell mutagenicity: GHS : Not classified

Carcinogenicity: GHS ; Category 1B ; May cause cancer

Carcinogenicity:

Chemical Name	ACGIH (2019)	IARC (2022)	NTP (2021)
Antimony trioxide	A2	2B	—

ACGIH A2 Suspected human carcinogen.

IARC 2B The agent is possibly carcinogenic to humans.

Reproductive toxicity: GHS : No data available

Specific target organ toxicity

—single exposure: GHS : Category 2 ; May cause damage to organs (respiratory organs)

—repeated exposure: GHS : Category 1 ; Causes damage to organs through prolonged or repeated exposure (respiratory organs)

Aspiration hazard: GHS : No data available

Section 12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

—acute toxicity: GHS : Not classified

Fish (*Lepomis macrochirus*) LC₅₀ > 530 mg/L/96h

Crustacea (*Daphnia magna*) EC₅₀ = 506 mg/L/48h

Algae (*Pseudokirchneriella subcapitata*) EC₅₀ > 2.87 mg/L/72h



High Purity Materials

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— chronic toxicity:	GHS : Not classified Fish (Pimephales promelas) NOEC > 0.00898 mg/L/33 to 35 days
Hazardous to the ozone layer	GHS : No data available No Freon or Halon
Fish toxicity:	See above
Degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available

Section13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN number:	1549
IATA shipping name:	Antimony compound, inorganic, solid, n.o.s.
IATA classification:	Class 6.1 (Toxic substances)
IATA packing group:	III
HS code:	2825.80
Marine pollution:	None

Section 15. Regulatory information

TSCA inventory: Listed.

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product. Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.