

## GHS Safety Data Sheet

SDS No. : SBI02GAEG

Date Issued: 2018/02/06

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

#### 1.1 Product Information

Product name: Sb<sub>2</sub>Te<sub>3</sub> Antimony(III) telluride

Product number:	Purity	Form	Size or Shape
SBI08GB	99.9%(3N)	lumps	—
SBI09PB	99.9%(3N)	powder	—
SBI10GB	99.999%(5N)	lumps	—
SBI11PB	99.999%(5N)	powder	—
—	99.99%(4N) etc.	tablet/target	Various shapes, Various sizes

#### 1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd  
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### Section 2. Hazards identification

#### GHS Classification

This GHS classification utilized “CLP classification” results as reference.

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity(Oral) : Category 4 Acute toxicity(Inhalation: dust ) : Category 4	Hazardous to the aquatic environment, chronic toxicity : Category 2	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: W, V



Pictograms or symbols

Warning word: **Warning**

#### Hazard information

**Harmful if swallowed.**  
**Harmful if inhaled.(dust)**  
**Toxic to aquatic life with long lasting effects.**

#### Description of precaution

Wear protective gloves/protective clothing/eye protection/ respiratory protection/face protection during handling.  
 Avoid breathing dust/mist/fume/vapors.  
 Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.  
 Use only outdoors or in well-ventilated area.  
 Avoid release to the environment and collect spillage.  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Call a POISON CENTER or doctor/physician if you feel unwell.  
 Store locked up.  
 Dispose of contents/ container in accordance with local/ national regulations.

**Additional hazard information :** Heating or Contact with acids may liberate toxic gases/fume.

With respect to additional hazard information, see Section 11.

**Section 3. Composition / information on ingredients**

Chemical or common name:	Antimony(III) telluride
Chemical formula:	Sb <sub>2</sub> Te <sub>3</sub>
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	1327-50-0
RTECS#:	Not listed
TSCA inventory:	Not listed
EINECS:	2154809

**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, the product may liberate toxic gases. Self-contained breathing apparatus and full protective clothing should be used, if this product 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/ dust/ fume.
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:	Avoid unnecessary contacts with spills. 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 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.
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**Precautions to be taken in storage:**

General precautions:	Store the material in a sealed container, or in the original 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(2013) TLV-TWA    mg/m <sup>3</sup>	OSHA(2006) PEL-TWA    mg/m <sup>3</sup>
	Antimony compounds (as Sb)	0.5	0.5
	Tellurium compounds (as Te)	0.1	0.1
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, face shields, protective gloves		

## Section 9. Physical and chemical properties

Color and Form:	Gray solid, odorless.
Chemical formula:	Sb <sub>2</sub> Te <sub>3</sub>
Molecular weight:	626.3
Melting point:	618.5 °C
Density:	6.5 g/cm <sup>3</sup>
Water solubility:	Insoluble
Flammability:	Non-combustible substance
Oxidation:	None
Others:	Dissolves in nitric acid.

## Section 10. Stability and reactivity

Stability:	Stable at room temperature.
Reactivity	
Incompatibility:	Acids, strong oxidizing agent.
Condition to avoid:	Heat

## Section 11. Toxicological information

Acute toxicity:	GHS : Category 4 (Oral) ; Harmful if swallowed. Category 4 (Inhalation: dust) ; Harmful if inhaled.
Skin corrosive / irritation:	GHS :No data available
Serious eyes damage / eye irritation:	GHS :No data available
Respiratory sensitization:	GHS :No data available
Skin sensitization:	GHS :No data available
Germ cell mutagenicity:	GHS :No data available
Carcinogenicity:	GHS :No data available
Reproductive toxicity:	GHS :No data available
Specific target organ toxicity	
—single exposure:	GHS :No data available
Specific target organ toxicity	
—repeated exposure:	GHS :No data available
Aspiration hazard:	GHS :No data available

**Section 12. Ecological information**

Ecotoxicity:

Hazards to the aquatic environment

- acute toxicity: GHS : No data available
- chronic toxicity: GHS : Category 2 ; Toxic to aquatic life with long lasting effects.

Hazrdous the ozone layer: GHS ; No data available  
No Freon or Halon

Fish toxicity: No data available

Degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

**Section 13. 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: Hazardous Class 6.1(Toxic substances)  
IATA packing group: III  
HS code: 2842.90  
Marine pollution: Yes

**Section 15. Regulatory information**

TSCA inventory : Not listed.

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

**Section 16. Other information**

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.