GHS Safety Data Sheet

SDS No. : SNO01PAEG

Date Issued : 2001/04/23
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Section 1. Identification of the substance or mixture and of the supplier

Product Information

Product name: SnO_2 Tin(IV) oxide

Product number:	Purity	Form	Size or Shape
SNO03PB	99.9%(3N)	powder	ca.1μm
SNO04PB	99.99%(4N)	powder	−
SNO06PB	99.998%(4N8)	powder	−
SNO02GB	4N	grains	2～5mm
SN006_SNOR3008	3N	tablet	φ10mm×t5mm
SN006_SNOR3009	3N	tablet	φ20mm×t5mm
SN013	4N	tablet	Various sizes
SN012_SNOT3026	3N	target	φ101.6mm×5mm
SN012_SNOT3031	3N	target	φ152.4mm×5mm
SN012_SNOT4020	4N	target	φ101.6mm×5mm
SN012_SNOT4054	4N	target	φ152.4mm×5mm

Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.
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Recommended uses and restrictions on use: For research purposes

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available	No data available	**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:

Pictograms or symbols: Not applicable

Warning word: Not applicable

Hazard information	Description of precaution
Not applicable	Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid release to the environment and collect spillage. Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed.

Section 3. Composition / information on ingredients

Chemical or common name:	Tin(IV) oxide
Synonyms:	Stannic oxid
Chemical formula:	SnO_2
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	18282-10-5
RTECS#:	XQ4000000
TSCA inventory :	listed
EINECS:	2421590

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.

Section5. Fire fighting measures

Extinguishing media: The product is not combustible.
Use media appropriate for surrounding fire.

Fire fighting: 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 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.

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.

Section 8. Exposure controls / personal protection

Exposure guideline:

Chemical Name	ACGIH(2013) TLV-TWA mg/m³	OSHA(2006) PEL-TWA mg/m³
Tin, Oxide and inorganic compounds (as Sn)	2	−

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, protective gloves.

Section 9. Physical and chemical properties

Color and Form: White solid, odorless
Chemical formula: SnO_2
Formula weight: 150.7
Melting point: 1630 ℃
Boiling point: 1800～1900 ℃(sublimes)
Specific gravity: 6.85 g/cm³
Solubility in water: Insoluble
Flammability: Non-combustible substance
Oxidation: None

Section10. Stability and reactivity

Stability: Stable in closed container under room temperature.
Reactvity
Condition to avoid: No data available
Incompatibility: Chlorine trifluoride, metals, strong reducing agents

Section11. Toxicological information

Acute toxicity(Oral): GHS : No data available
Skin corrosive / irritation: GHS : No data available
Serious eye damage / 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
−repeated exposure: GHS : No data available
Aspiration hazard: GHS : No data available

Section12. Ecological information

Ecotoxicity:
Hazardous to the aquatic environment
−acute toxicity: GHS : No data available
−chronic toxicity: GHS : No data available

Hazardous to 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

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 classification:	Not hazardous
UN number:	None
HS code:	2825.90
Marine pollution:	None
Precautions:	Container should be transported in a secure position, in a well-ventilated vehicle.

Section 15. Regulatory information

TSCA inventory: 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.