

## GHS Safety Data Sheet

SDS No. : INO01PAEG

Date Issued: 2016/03/11

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

#### 1.1 Product Information

Product name: In<sub>2</sub>O<sub>3</sub>     Indium oxide

Product number:	Purity	Form	Size (mm) or Shape
INO02PB	99.99%(4N)	powder	ca.4 μ m
—	99.99%(4N)	powder	Avg.1 μ m以下
INO05PB	99.999%(5N)	powder	—
INO02GB	99.99%(4N)	grains	2-7, irregular
INO03GB	99.999%(5N)	grains	2-7, irregular
—	—	rod/tablet	10Φx 5, 20Φx 5, Various sizes
—	—	target	101.6Φx 5, 152.4Φx 5, Various sizes

#### 1.2 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

### Section 2. Hazards identification

#### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Specific target organ toxicity, repeated exposure : Category 1	No data available.	<b>Flammable solids : Not classified</b> <b>Pyrophoric solids : Not classified</b> <b>Self-heating substances and mixtures : Not classified</b> <b>Substances and mixtures which, in contact with water, emit flammable gases : Not classified</b>

GHS Label: C

Pictograms or symbols



**Warning word: DANGER**

#### Hazard information

**May cause damage to organs through prolonged or repeated exposure. (Lung,skeleton,gastrointestinal tract)**

#### Description of precaution

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.

#### Additional hazard information :

With respect to additional hazard information, see Section 11.

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

Chemical or common name:	Indium(III) oxide
Chemical formula:	In <sub>2</sub> O <sub>3</sub>
Single Substance or Compound:	Single substance
Composition:	100%
CAS#:	1312-43-2
RTECS#:	NL1770000
TSCA inventory :	listed
EINECS:	2151939

**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:	This product cannot catch fire. Use media appropriate for surrounding fire.
Fire fighting	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/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.
----------------	---

**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/m <sup>3</sup>	OSHA(2006) PEL-TWA mg/m <sup>3</sup>
		Indium and compounds (as In)	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, impervious gloves, protective wear, protective boots.

**Section 9. Physical and chemical properties**

Appearance:	Light yellow solid
Chemical formula:	In <sub>2</sub> O <sub>3</sub>
Formula weight:	277.6
Melting point:	Ca.2000°C
Density:	7.18 g/cm <sup>3</sup>
Solubility in water:	Insoluble
Flammability:	non-flammable substance
Oxidation:	No data available

**Section 10. Stability and reactivity**

Stability: Stable in closed container at room temperature.

Reactivity:

Incompatibility: No data available.

Condition to avoid ; No data available.

**Section 11. Toxicological information**

Acute toxicity:	GHS : Not classified.; Falls below the lowest level. oral lat LD50>10000mg/kg (SAX (4th, 2001))
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

–repeated exposure: GHS : Category 1 ; May cause damage to organs through prolonged or repeated exposure.  
(Lung,skeleton,gastrointestinal tract)

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 : No data available

Hazrdous the ozone layer: GHS ; No data available

No Freon or Halon

Fish toxicity: No data available

Degradability: No data available

Bioaccumulative potential:

Ingredients Name	Biological half-life ( day )	Rate of absorption	
		oral	respiratory tract
In	48	0.002	0.25

## 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 classification: Non-hazards

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.