

## GHS Safety Data Sheet

SDS No. : NBO01PAEG

Date Issued: 2004/10/20  
Last updated: 2015/03/30

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

#### 1.1 Product Information

Product name: Nb<sub>2</sub>O<sub>5</sub> Niobium(V) oxide

Product number:	Purity	Form	Size or Shape
NBO04PB	99 %(2N)	powder	ca.1 μ m
NBO05PB	99 %(2N)	powder	2mm pass
NBO06PB	99.9 % (3N)	powder	ca.1 μ m
NBO07PB	99.9 % (3N)	powder	425 μ m pass
NBO08PB	99.99 % (4N)	rod/tablet	ca.1 μ m
NBO03GB	99.9 % (3N)	target	2~5mm
—	99.9 % (3N)	rod/tablet	Φ 10xt5, Φ 20xt5, Various sizes
—	99.9 % (3N)	target	Φ 101.6xt5, Φ 152.4xt5, Various sizes

#### 1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd

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### Section 2. Hazards identification

#### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available	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:

Pictograms or symbols

No data available

Warning word: Not applicable

Hazard information	Description of precaution
Not applicable	Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Call a POISON CENTER or doctor/physician if you feel unwell. 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: Niobium(V) oxide

Chemical formula: Nb<sub>2</sub>O<sub>5</sub>

Single Substance or Compound: Single substance

Composition: 100%

CAS #: 1313-96-8

RTECS#: QU0500000  
TSCA inventory: listed  
EINECS: 2152136

#### **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: The product is nonflammable.

#### **Section 6. Accidental release measures**

Personal Precautions: Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its 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.

##### **Precautions to be taken in storage:**

General precautions: Keep container or bottle tightly closed.  
Store in a cool, dry place away from incompatible materials.

#### **Section 8. Exposure controls / personal protection**

Exposure guideline: ACGIH (2013): No data available  
OSHA (2006): No data available

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.  
(In case of dust generating work.)  
Wear appropriate NIOSH/MSHA-approved respirator, air-supplied respirator, safety goggles, face shields, protective gloves, protective clothing, apron, including boots.

### Section 9. Physical and chemical properties

Color and Form:	White solid, odorless.
Chemical formula:	Nb <sub>2</sub> O <sub>5</sub>
Formula weight:	265.8
Melting point:	1485±5 °C (under pressure)
Boiling point:	No data available
Density:	4.6 g/cm <sup>3</sup>
Water solubility	Insoluble
Flammable:	non-flammable substance
Oxidation:	No data available

### Section 10. Stability and reactivity

Stability:	Stable in closed container.
Reactivity	
Incompatibility:	Lithium
Condition to avoid:	No data available
Hazardous decomposition products.:	No data available

### Section 11. Toxicological information

Acute toxicity :	GHS : No data available
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
Other cautions:	Mechanical stimulation by dust affects eyes, skin and respiratory system

### Section 12. Ecological information

Ecotoxicity:	
Hazards 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:	Nb biological half-life 760 day, Rate of absorption Oral=0.0001 Respiratory tract=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.