GHS Safety Data Sheet

SDS No.: NBO02PAEG Date Issued: 2014/09/03

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

1.1 Product Information

Product name: NbO₂ Niobium(IV) oxide

Product number:	Purity	Form	Size (mm) or Shape
NBO02PB	99.9 % (3N)	powder	_
NBO01GB	99.9% (3N)	grains	2-5

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

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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 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. Avoid release to the environment and collect spillage. Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed.		

Additional hazard information:

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name: Niobium(**IV**) oxide

Chemical formula: NbO₂

Single Substance or Compound: Single substance

Composition: 100%
CAS #: 12034-59-2
RTECS#: No data available

TSCA inventory: listed EINECS: 2348097

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: Remove containers to safe place if possible.

Protective equipment 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 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: Store in a cool, dry place away from incompatible materials.

Keep container or bottle tightly closed.

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.

Section 9. Physical and chemical properties

Color and Form: Blue-black
Chemical formula: NbO₂
Atomic weight: 124.9

Melting point: 1902 °C

Boiling point: No data available

Density: 5.9 g/cm³

Solubility Water: Insoluble

Flammable: non-flammable substance

Oxidation: None

Section 10. Stability and reactivity

Stability: Stable in closed container.

Reactivity

Incompatibility: 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 GHS: No data available Respiratory sensitization: GHS: No data available Skin sensitization: Germ cell mutagenicity: GHS: No data available GHS: No data available Carcinogenicity: 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: No data available
Hazardous 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

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 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.