

## GHS Safety Data Sheet

SDS No. : YBE01GAEG

Date: 2011/04/05  
Last updated: 2016/06/20

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

#### 1.1 Product Information

Product name: Yb Ytterbium

Product number:	Purity	Form	Size (mm) or Shape
YBE01GB	99.9%(3N)	grains	
YBE02GB	99.9%(3N)	turnings	
YBE01CB	99.9%(3N)	chips	5×5×t1
YBE02CB	99.9%(3N)	chips	10×10×t1
—	99.9%(3N)	target	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	No data available

GHS Label: Not applicable

Pictograms or symbols : Not applicable

Warning word: **WARNING**

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 :

Contact with water may liberate flammable gases.

With respect to additional hazard information, see Section 11.

### Section 3. Composition / information on ingredients

Chemical or common name: Ytterbium  
 Chemical formula: Yb  
 Single Substance or Compound: Single substance

Composition:	100%
CAS#:	7440-64-4
RTECS#:	ZG1925000
TSCA inventory:	listed
EINECS:	2311732

#### **Section 4. First aid measures**

Eye contact:	Promptly rinse 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.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.

#### **Section 5. Fire fighting measures**

Extinguishing media:	Dry sand,Carbon dioxide,Dry chemical powder,Metal fire powder. Do not use water.
Fire fighting:	Contact with water may liberate flammable gases. Remove containers to safe place if possible. 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.
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:	Eliminate all sources of ignition. Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Cover with dry earth, sand or other non-combustible material, and gather up, pack in closed DOT-approved wast container as much as possible. Carefully collect remnant and move to a safe place. Do not get water inside containers.

#### **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.
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Handle the material in a dry inert gas atmosphere, utilizing glove bag or glove box.  
 Keep away from moisture when handling.  
 Keep container or bottle tightly closed when not in use.  
 Handling worker wears suitable protective clothing.  
 Keep away from heat, sparks and naked flame.

**Precautions to be taken in storage:**

General precautions: Keep in oil. Keep container or bottle tightly closed.  
 Protect from sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances.  
 Keep away from any heat, sparks, and flames.

<b>Section 8. Exposure controls / personal protection</b>
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Exposure guideline: A C G I H ( 2 013) : No data available  
 OSHA (2006) : No data available

Facility measures: Dry and controlled environment that can use inert gas.  
 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.

<b>Section 9. Physical and chemical properties</b>
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Color and Form: Gray solid, odorless.  
 Chemical formula: Yb  
 Atomic weight: 173.04  
 Melting point: 824 °C  
 Boiling point: 1193 °C  
 Density: 6.965g/cm<sup>3</sup>  
 Water solubility: Water: Slowly soluble in cold water. Soluble in hot water generating hydrogen gas.  
 Dissoluble: Acids.  
 Flammable: No data available  
 Oxidation: None

<b>Section 10. Stability and reactivity</b>
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Stability: Stable in closed container under inert gas.  
 May decompose on exposure to air and moisture.

Reactivity

Incompatibility: Strong acids, strong oxidizing agent, halogens.  
 Condition to avoid: Air, moisture.

### Section 11. Toxicological information

Acute toxicity:	GHS : No data available
Skin corrosive / irritation:	GHS : No data available
Serious eye damage / irritation:	GHS : No data available
Respiratory/ 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 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.
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### Section 14. Transport information

UN classification:	Not hazardous
UN number:	Not hazardous
HS code:	2805.30
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.