

GHS Safety Data Sheet

SDS No. : YYO01PAEG

Date Issued : 1996/09/20

Last updated : 2019/08/05

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

Product Information

Product name: Y₂O₃ Yttrium oxide

Product	Purity	Form	Size or Shape
YYO06PB	99.9%(3N)	powder	ca.7 μm
YYO06PB	99.99%(4N)	powder	ca.7 μm
YYO06PB	4Nup	powder	ca.0.4 μm
YYO01GB	3N	grains	—
YYO01GB	4N	grains	—
Y002	—	tablet & target	Various sizes, Various shapes

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
Serious eye damage/eye irritation : Category 2B	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: **WARNING**

Hazard information	Description of precaution
Causes eye irritation	Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/ container in accordance with local/national regulations.

Section 3. Composition / information on ingredients

Chemical or common name: Yttrium(III) oxide

Synonyms: Ytria

Chemical formula: Y₂O₃

Single Substance or Compound: Single substance

Composition: 100%

CAS #: 1314-36-9

RTECS#: ZG3850000



High Purity Materials

KOJUNDO CHEMICAL LABORATORY CO.,LTD.

TSCA inventory : Listed
EINECS: 2152335

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:
Use media appropriate for surrounding fire.

Fire fighting: The product is not combustible.
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 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:	ACGIH(2019) TLV-TWA mg/m ³	OSHA(2006) PEL-TWA mg/m ³
Chemical Name		
Yttrium compounds	1	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:	Colorless solid
Chemical formula:	Y ₂ O ₃
Formula weight:	225.8
Melting point:	2410 °C
Boiling point:	~4300 °C
Density:	5.03 g/cm ³
Solubility:	Insoluble ; water Soluble ; acid
Flammable:	Non-combustible substance
Oxidation:	None

Section10. Stability and reactivity

Stability:	Stable in closed container.
Reactivity	
Incompatibility:	Strong acids

Section11. Toxicological information

Acute toxicity:	GHS : No data available
Skin corrosive / irritation:	GHS : No data available
Serious eye damage / irritation:	GHS : Category 2B ; Causes serious eye irritation
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
– 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:	Non-hazards
UN number:	None
HS code:	2846.90



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.

