

GHS Safety Data Sheet

SDS No. : DYO01PAEG

Date Issued : 2021/02/05

Section 1. Identification of the substance or mixture and of the supplier**Product Information**Product name: Dy₂O₃ Dysprosium oxide

Product number:	Purity	Form	Size or Shape
DYO01PB	99.9%(3N)	powder	-
DYO02	-	tablet & target	Various sizes, Various shapes

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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Recommended uses and restrictions on use: For research purposes**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:

Not applicable

Pictograms or symbols:

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.

Section 3. Composition / information on ingredients

Chemical or common name: Dysprosium(III) oxide
 Chemical formula: Dy₂O₃
 Single Substance or Compound: Single substance
 Composition: 100%
 CAS No.: 1308-87-8
 RTECS No.: JW1060000
 TSCA inventory : Listed
 EINECS: 2151640

(See Section 8 for Exposure Limits)

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:	Avoid unnecessary contacts with spills. 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. Avoid prolonged or repeated exposure.
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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.
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Section 8. Exposure controls / personal protection

Exposure guideline:	ACGIH (2019) : 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, protective gloves.

Section 9. Physical and chemical properties

Color and Form:	Colorless solid
Chemical formula:	Dy ₂ O ₃
Formula weight:	373.0
Melting point:	2340 ± 10 °C
Boiling point:	No data available
Density:	7.81 g/cm ³



Solubility in water: Water: Insoluble
 Flammability: Non-combustible substance
 Oxidation: None

Section10. Stability and reactivity

Stability: Stable under the recommended storage conditions.
 Reactivity
 Condition to avoid: No data available
 Incompatibility: No data available
 Hazardous decomposition products:
 No data available

Section11. Toxicological information

Acute toxicity(Oral): GHS : No data available
 Skin corrosive / irritation: GHS : No data available
 Serious eye damage / 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 : 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

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product. Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.