

GHS Safety Data Sheet

SDS No. : MGO01TAEG

Date Issued: 2004/12/21

Last updated: 2018/07/06

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

1.1 Product Information

Product name: **MgO Magnesium oxide**

Product number:	Purity	Form	Size (mm) or Shape
MGO01PB	99% (2N)	powder (heavy powder)	—
MGO09PB	99% (2N)	powder	—
MGO10PB	99.9% (3N)	powder	—
MGO11PB	99.99% (4N)G	powder	—
MGO12PB	99.99% (4N)up	powder	—
MGO13PB	99.95%(3N5)	powder	—
MGO01GB	99.9% (3N)	grains by sintering powder	—
MGO03GB	99.9% (3N)	melted grains	—
—	—	single-crystal substrate	Various sizes
—	99.99% (4N), Others	rod/tablet/target (high-density)	φ 10×t5, φ 20×t5, φ 101.6×t5, φ 152.4×t5, Others

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
<p>Serious eye damage/eye irritation : Category 2</p> <p>Specific target organ toxicity, single exposure: Category 3</p>	No data available	<p>Flammable solids : Not classified</p> <p>Pyrophoric solids : Not classified</p> <p>Self-heating substances and mixtures : Not classified</p> <p>Substances and mixtures which, in contact with water, emit flammable gases : Not classified</p>

GHS Label : W



Pictograms or symbols

Warning word: WARNING

Hazard information	Description of precaution
<p>Causes serious eye irritation.</p> <p>May cause respiratory irritation</p>	<p>Wear protective gloves/protective clothing/eye protection /respiratory protection/face protection during handling.</p> <p>Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.</p> <p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>Protect from sunlight. Store in a cool, dry and well ventilated place. Keep container tightly closed.</p> <p>Store locked up.</p> <p>Dispose of contents/ container in accordance with local/national regulations.</p>

Additional hazard information :

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	Magnesium oxide
Chemical formula:	MgO
Single Substance or Compound:	Single substance
Composition:	100%
CAS#:	1309-48-4
RTECS#:	OM3850000
TSCA inventory:	listed
EINECS:	2151719

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. Wear self contained breathing apparatus and protective clothing for fire fighting if necessary.

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 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 (2013): MgO TLV-TWA 10 mg/m³ (Inhalable fraction)
OSHA (2006) : MgO fume PEL-TWA 15 mg/m³

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: 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: MgO

Formula weigh 40.3

Melting point: 2826 °C

Boiling point: 3600 °C

Density: 3.6 g/cm³

Water solubility Slightly soluble.

Flammable: Non-combustible

Oxidation: None

Section 10. Stability and reactivity

Stability: Stable in closed container under room temperature.

Reactivity

Incompatibility: Strong oxidizing agents, Strong acids, interhalogen compounds, phosphorus pentachloride, phosphorus pentoxide.

Condition to avoid: Air, moisture.

Section 11. Toxicological information

Acute toxicity: GHS : Not classified.; Falls below the lowest level.
Oral rat LD₅₀ = 3870 mg/kg (HSDB)

Skin corrosive / irritation: GHS ; No data available

Serious eyes damage / eye irritation: GHS : Category 2 ; Causes serious eye irritation

Respiratory sensitization: GHS ; No data available

Skin sensitization: GHS ; No data available

Germ cell mutagenicity: GHS ; No data available

Carcinogenicity: GHS ; No data available

Carcinogenicity:

Chemical Name	ACGIH (2013)	IARC (2017)	NTP (2016)
Magnesium oxide	A4	—	—

ACGIH(2013) A4 (Not classifiable as a human carcinogen.)

Reproductive toxicity: GHS ; No data available

Specific target organ toxicity

—single exposure: GHS : Category 3 ; May cause respiratory irritation

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:

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.

Section 14. Transport information

UN classification: Non-hazards

UN number: None

HS code: 2519.90

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.