

GHS Material Safety Data Sheet

MSDS No. : MGI02PAEG

Date Issued: 2012/12/03

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

1.1 Product Information

Product name: MgB₂ **Magnesium boride**

Product number:	Purity	Form	Size (mm) or Shape
MGI01PB	99 %(2N)	powder	—
—	99 %(2N)	target	Various sizes

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd
 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284
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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:

Pictograms or symbols No data available

Warning word: Not applicable

Hazard information	Description of precaution
Not applicable	Not applicable

Additional hazard information :

See each section for reference.

Section 3. Composition / information on ingredients

Chemical or common name: Magnesium diboride
 Chemical formula: MgB₂
 Single Substance or Compound: Single substance
 Composition: 100%
 CAS #: 12007-25-9
 RTECS#: No data available
 TSCA inventory: listed
 EINECS: 2345012

Section 4. First aid measures

(As for powdery product, and dusts originated from the product.)

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: Not applicable. Use media appropriate for surrounding fire.
- Fire fighting: Wear self contained breathing apparatus and protective clothing for fire fighting if necessary.
- Specific hazards arising from the chemical: In case of fire, may liberate toxic gases/ fume.

Section 6. Accidental release measures

(As for powdery product, and dusts originated from the product.)

- 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: 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 (2012): No data available
OSHA (2006): No data available
- Facility measures: (In case of dust generating work)
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.
(In case of dust generating work.)
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:	Solids, odorless.
Chemical formula:	MgB ₂
Formula weigh	45.9
Melting point:	800 °C (decompose)
Boiling point:	No data available
Density:	2.57 g/cm ³
Water solubility	No data available.
Flammable:	No data available.
Oxidation:	None

Section 10. Stability and reactivity

Stability:	Stable in closed container.
Reactivity	
Incompatibility:	Acids, oxidizing agents
Condition to avoid:	Heat.
Hazardous decomposition products.:	Magnesium oxides, boron oxides.

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
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
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:	B: biological half-life 0.5 day, Rate of absorption Oral=0.9 Respiratory tract=0.7
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: 2850.00
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.