

GHS Safety Data Sheet

SDS No. : MOO02PAEG

Date Issued : 2019/04/03

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

Product Information

Product name: MoO₂ Molybdenum(IV)oxide

Product number:	Purity	Form	Size or Shape
MOO01PB	99.9%(3N)	powder	—
MOO01GB	3N	grains	—
—	3N	target	Various shapes, Various sizes

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

Emergency Phone : +81-49-284-1511

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:

Pictograms or symbols: Not applicable

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: Molybdenum(IV) oxide

Synonyms: Molybdenum dioxide

Chemical formula: MoO₂

Single Substance or Compound: Single substance

Composition: 100%

CAS #: 18868-43-4

RTECS#: QA4688000

TSCA inventory : listed

EINECS: 2426379



High Purity Materials

KOJUNDO CHEMICAL LABORATORY CO.,LTD.

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 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 under dry inert atmosphere.
Store in a cool, dry, well ventilated and dark place away from incompatible materials.
-

Section 8. Exposure controls / personal protection

Exposure guideline:

Chemical Name	ACGIH(2013) TLV-TWA mg/m ³	OSHA(2006) PEL-TWA mg/m ³
Molybdenum insoluble compounds	3(R), 10(I)	15(T)

(R):respirable particles, (I):inhalable particles, (T):Total dust

- 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

Appearance:	Gray solid
Chemical formula:	MoO ₂
Formula weight:	127.9
Melting point:	1100 °C (decomposes)
Density:	6.47 g/cm ³
Solubility in water:	Insoluble.
Flammability:	Non-combustible substance.
Oxidation:	None

Section10. Stability and reactivity

Stability:	Stable in closed container.
Reactivity	
Incompatibility:	No data available.

Section11. Toxicological information

Acute toxicity:	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:	2825.70
Marine pollution:	None



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.



High Purity Materials

KOJUNDO CHEMICAL LABORATORY CO.,LTD.