



# SAFETY DATA SHEET

Revision date 16-July-2020

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifier

CAS No.	12069-89-5
Product Name	Molybdenum carbide
Molecular Formula	Mo <sub>2</sub> C

### Relevant identified uses of the substance or mixture and uses advised against

Recommended use	Laboratory chemicals, Manufacture of substances
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### Details of the supplier

Company name	Hunan Huawei Jingcheng Material Technology Co., Ltd.
Address	Room 516, Hunan International Business Center, Jintai Plaza, East Second Ring, Furong District, Changsha City, Hunan Province, China.
Website	www.hnjc-metal.com
Telephone	0086-731-85124338
Fax	

### Emergency telephone number

Chemtrec  
0086-731-85124338

## Section 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Not a hazardous substance or mixture.

### GHS Label elements, including precautionary statements

#### Hazard statement

The substance does not meet the criteria for classification.

#### Precautionary statement

Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substances

CAS No.: 12069-89-5

Description: Molybdenum carbide

## Section 4: FIRST AID MEASURES

### Description of first aid measures

**General information:** No special measures required.

**After inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.

**After skin contact:** Immediately rinse with water. Get medical attention if irritation develops and persists.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** Rinse mouth. If symptoms persist consult doctor.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## Section 5: FIRE FIGHTING MEASURES

**Extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Suitable extinguishing agents:** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed..

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:**No data available

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Reference to other sections**

For disposal see section 13.

## Section 7: HANDLING AND STORAGE

**Precautions for safe handling**

Avoid prolonged exposure. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

**Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Type	Value	Form
Molybdenum Carbide (CAS 12069-89-5)	PEL	15 mg/m <sup>3</sup>	Total dust.
US. ACGIH Threshold Limit Values Material	Type	Value	Form
Molybdenum Carbide (CAS 12069-89-5)	TWA	3 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

**Appropriate engineering controls**

General industrial hygiene practice.

Hunan Huawei Jingcheng Material Technology Co., Ltd. [www.hnjc-metal.com](http://www.hnjc-metal.com)

## Personal protective equipment

### Eye/face protection

Wear safety glasses with side shields (or goggles).

### Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

### Control of environmental exposure

Do not let product enter drains.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

- a) Form: Powder
- b) Odor: no data available
- c) Odor Threshold: no data available
- d) pH: no data available
- e) Melting point: no data available
- f) Initial boiling point and boiling range: no data available
- g) Flash point: no data available
- h) Evaporation rate: no data available
- i) Flammability (solid, gas): Product is not flammable
- j) Upper/lower flammability or explosive limits: no data available
- k) Vapor pressure: no data available
- l) Vapor density: no data available
- m) Relative density: no data available
- n) Water solubility: no data available
- o) Partition coefficient - noctanol/water: no data available
- p) Auto-ignition temperature: no data available
- q) Decomposition temperature: no data available
- r) Viscosity: no data available
- s) Explosive properties: no data available
- t) Oxidizing properties: no data available

### Other safety information

No data available

## Section 10: STABILITY AND REACTIVITY

**Reactivity** No further relevant information available.

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** No data available.

**Conditions to avoid** Strong oxidizing agents.

**Incompatible materials:** No data available.

**Hazardous decomposition products:** No data available.

## Section 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** Prolonged skin contact may cause temporary irritation.

**on the eye:** Direct contact with eyes may cause temporary irritation.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - repeated exposure:** no data available

**Aspiration hazard :** no data available

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Section 12: ECOLOGICAL INFORMATION**

Ecotoxicity	No further relevant information available.
Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.
Results of PBT and vPvB assessment	No information available.
Other adverse effects	No information available

**Section 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Recommendation: Disposal must be made according to official regulations.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Recommendation: Disposal must be made according to official regulations.

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Section 14: TRANSPORT INFORMATION**

**DOT (US)**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**Section 15: REGULATORY INFORMATION**

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No
	Delayed Hazard - No
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

SARA 313 (TRI reporting)  
Not regulated.

## Section 16: OTHER INFORMATION

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**

**HUAWEI MATERIAL**  
*Experts come from dedication.*