# Heegermaterials

# **SAFETY DATA SHEET**

Revision Date 14-Feb-2020 **Revision Number** 2

1. Identification

**Product Name** Molybdenum powder

Reference.: ME42-SP

CAS-No 7439-98-7

**Synonyms** No information available

**Recommended Use** Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Heeger Materials Inc 230 Steele St Denver CO 80206 **United States** Tel: 925-385-8104

Email: sales@heegermaterials.com

**Emergency Telephone Number** 

Ser Mate During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids Category 2 Category 1B Reproductive Toxicity Specific target organ toxicity (single exposure) Category 2

Label Elements

Signal Word

Danger

**Hazard Statements** 

Flammable solid

May damage fertility or the unborn child

May cause damage to organs

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### **Precautionary Statements**

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Response

IF exposed or concerned: Get medical attention/advice

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

**Disposal** 

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component		CAS-No	Weight %		
	Molybdenum	7439-98-7	99.99		

## 4. First-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

**Inhalation** Remove from exposure, lie down. Remove to fresh air.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink

plenty of water. If possible drink milk afterwards.

Most important symptoms and

effects

No information available.

Notes to Physician Treat symptomatically

### 5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available

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**Method** - No information available

**Autoignition Temperature** 

**Explosion Limits** 

Not applicable

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Contact with water liberates toxic gas. Water reactive. Produce flammable gases on contact with water.

#### **Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### NFPA

Health Flammability Instability Physical hazards 2 0 N/A

#### 6. Accidental release measures

Personal Precautions
Environmental Precautions

Ensure adequate ventilation. Use personal protective equipment as required.

See Section 12 for additional Ecological Information.

**Methods for Containment and Clean** Soak up with inert absorbent material. Sweep up and shovel into suitable containers for **Up** disposal.

## 7. Handling and storage

Handling

Avoid contact with skin and eyes. Avoid contact with skin and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical assistance. Wash thoroughly after handling.

**Storage** Keep away from water or moist air.

# 8. Exposure controls / personal protection

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)	
Molybdenum	TWA: 10 mg/m <sup>3</sup>	(Vacated) TWA: 10 mg/m <sup>3</sup>	IDLH: 5000 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	
	TWA: 3 mg/m <sup>3</sup>			TWA: 3 mg/m <sup>3</sup>	

#### **Legend**

**ACGIH** - American Conference of Governmental Industrial Hygienists

**OSHA** - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Ventilation systems.

Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline

respirator in the positive pressure mode with emergency escape provisions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical StatePowder SolidAppearanceGreyOdorOdorless

Odor ThresholdNo information availablepHNo information available

Melting Point/Range 2622 °C / 4751.6 °F

**Boiling Point/Range** 4825 °C / 8717 °F @ 760 mmHg

Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas)

No information available

Flammability or explosive limits

Upper
Lower
No data available
No data available
No information available
Vapor Density
Not applicable

Specific Gravity 10.28

Solubility No information available

Partition coefficient; n-octanol/water

No data available
Autoignition Temperature

Not applicable

Decomposition Temperature No information available

Viscosity Not applicable

Molecular Formula Mo Molecular Weight 95.94

# 10. Stability and reactivity

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Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents, Oxidizing agent

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors

**Hazardous Polymerization** No information available.

**Hazardous Reactions**None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information**No acute toxicity information is available for this product

Component Information

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** No information available

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Sensitization No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

Component CAS-No **IARC** NTP **ACGIH OSHA** Mexico Molybdenum 7439-98-7 Not listed Not listed Not listed Not listed Not listed

**Mutagenic Effects** No information available

No information available. **Reproductive Effects Developmental Effects** No information available.

No information available. **Teratogenicity** 

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard** 

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

Persistence and Degradability Insoluble in water

**Bioaccumulation/ Accumulation** No information available

Mobility Is not likely mobile in the environment due its low water solubility.

# 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

**UN-No** UN3089

**Proper Shipping Name** METAL POWDERS, FLAMMABLE, N.O.S.

**Technical Name** Molybdenum

**Hazard Class** 4.1 **Packing Group** 

TDG

**UN-No** UN3089

**Proper Shipping Name** Metal powder, flammable, n.o.s.

**Hazard Class Packing Group** 

4.1

IATA

**UN-No** UN3089

**Proper Shipping Name** Metal powder, flammable, n.o.s.

**Hazard Class Packing Group** 

4.1

IMDG/IMO

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**UN-No** UN3089

**Proper Shipping Name** Metal powder, flammable, n.o.s.

**Hazard Class Packing Group** 

# 15. Regulatory information

### **United States of America Inventory**

Com	ponent	CAS-No TSCA		TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags	
Molyl	odenum	7439-98-7	X	ACTIVE	-	

### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Molybdenum	7439-98-7	Х	-	231-107-2	X	X	Х	Х	KE-25427

### **U.S. Federal Regulations**

Not applicable **SARA 313** 

ICMAIS Inc See section 2 for more information SARA 311/312 Hazard Categories

**CWA (Clean Water Act)** Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

Not applicable **CERCLA** 

California Proposition 65 This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know

Regulations

	Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Γ	Molybdenum	X	X	Х	-	Х

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** 

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

No information available Mexico - Grade

## 16. Other information

Prepared By Health, Safety and Environmental Department

**Revision Date** 14-Feb-2020 **Print Date** 14-Feb-2020

**Revision Summary** SDS authoring systems update, replaces ChemGes SDS No. 7439-98-7/1.

#### **Disclaimer**

The information provided in this 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 SDS** 

Heeger Materials Inc

