



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Molybdenum Powder

30-2209

Section 1: Identification

Product Name Molybdenum Powder
Commercial Name Not available
Product Use Not available
Restrictions On Use Not available

Product Code 30-2209

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Acute toxicity, dermal (Category 4) Acute toxicity, inhalation (Category 4) Acute toxicity, oral (Category 4)
CFR 1910.1200 Flammable solids (Category 1) Reproductive toxicity (Category 2) Serious eye damage/eye irritation (Category 2A) Skin corrosion/irritation (Category 2) Specific target organ toxicity, single exposure Respiratory tract irritation (Category 3)

Signal Word DANGER

Hazard Statement(s) Flammable solid. Suspected of damaging fertility or unborn child. Harmful in contact with skin. Causes eye, skin, or respiratory irritation.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. –No smoking. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/ attention. P308+P313 If exposed or concerned: Get medical advice/ attention.

Storage

Not available.

Disposal

Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Molybdenum Powder
% By Weight 100
CAS# 7439-98-7
Molecular Weight 95.94
Chemical Formula Mo
Synonym(s) Molybdate, Molybdenum, AC-6234, 60812

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Molybdenum Powder	7439-98-7	99.95		LD50: Not available. LC50: Not available.



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Section 4: First-Aid Measures

Inhalation	Move to a fresh air environment. Contact a physician if breathing becomes difficult.
Skin Contact	Wash skin with soap and water. If irritation persists, seek medical attention.
Eye Contact	Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.
Ingestion	Do not induce vomiting. Seek medical attention.
Symptoms/Effects	
Acute	Not available
Delayed	Not available
Immediate Medical Attention	Not available.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Not applicable.

Firefighters Special Equipment and Precautions

Wear self-contained respirator and fully protective impervious suit.

Section 6: Accidental Release Measures

Personal Protection: Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ingestion sources if safe to do so. Follow emergency response plan and contact proper authorities if needed. Keep unprotected persons away. **Environmental Protection:** Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

Section 7: Handling and Storage

Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away. **Storage:** Store in a tightly closed container in a dry, well-ventilated place. Store under inert gas. Store under nitrogen.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Use produce in a well ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.
Personal Protection	Eyes: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash facility in your vicinity. Skin: Wear impervious gloves and protective clothing. Respiratory: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9: Physical and Chemical Properties

Appearance	Solid. (Grey powder.)		
Odor	Odorless		
Odor Threshold	Not available		
Melting Point	2,617 °C	pH	Not available
Freezing Point	Not available	Vapor Pressure	Not determined.
Boiling Point/Range	4,612 °C	Vapor Density	10.3g/ml @25C
Decomposition temperature	Not available	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available	Evaporation Rate	Not available
Flash Point	Not available.	Autoignition temperature	Not available
Flammability	Not available	Flammability or Explosive Limits:	
		Lower	Not available
		Upper	Not available
Solubility(ies)	Insoluble in water.		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable under normal temperatures and pressures.
Hazardous Polymerization	Not available.
Conditions to Avoid	Heat, Flame, Sparks, Other ignition sources
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Molybdenum oxides

Section 11: Toxicological Information
RTECS QA4680000

Acute Toxicity

Not available

Skin Corrosion/Irritation

Not available

Serious Eye Damage/Irritation

Not available

Respiratory or Skin Sensitization

Not available.

Germ Cell Mutagenicity

Not available

Carcinogenicity

Not available

Reproductive Toxicity

Not available

Routes of Entry

Not available

Symptoms Related to Exposure

Not available



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Potential Health Effects

Not available

Target Organ(s)

Not available

Section 12: Ecological Information

Ecotoxicity

Not available

Persistence and Degradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Not available

Section 13: Disposal Considerations

Waste Disposal

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

Disposal of Container

Not available

Other Considerations

Not available

Section 14: Transport Information

DOT Classification

DOT Shipping Name: Metal Powders, Flammable, N.O.S. DOT UN Number: UN3089 DOT Hazard Class: Class 4.1 DOT Packing Group: II IMDG Shipping Name: Metal Powders, Flammable, N.O.S. IMDG UN Number: UN3089 IMDG Hazard Class: Class 4.1 IMDG Packing Group: II IATA Shipping Name: Metal Powders, Flammable, N.O.S. IATA UN Number: UN3089 IATA Hazard Class: Class 4.1 IATA Packing Group: II

Section 15: Regulatory Information

Regulations

Toxic Substance Control Act (TSCA): Listed Superfund Amendments and Reauthorization Act (SARA 302): Not listed Superfund Amendments and Reauthorization Act (SARA 311/312): Not listed Superfund Amendments and Reauthorization Act (SARA 313): Not listed

Other

Not available.

Section 16: Other Information

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgment to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling