



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 30-Mar-2022 Revision Number 3.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Moly	odenum(IV) Sulf	īde		
Product Code	139-1	3272,133-1327	5		
Manufacturer	1-2 Dos Chuo-k Phone: Fax: +8	_M Wako Pure Chem shomachi 3-Chome u, Osaka 540-8605, +81-6-6203-3741 31-6-6203-5964	Japan		
Supplier	1-2 Dos Phone: Fax: +8	M Wako Pure Chem shomachi 3-Chome, ( +81-6-6203-3741 31-6-6203-2029	Chuo-ku, Osaka 540	-8605, Japan	
Emergency telephone nu Recommended uses and restrictions on use		3203-3741 / +81-3-32 earch use only	70-8571		
	Sectio	n 2: HAZARDS	IDENTIFICAT	ON	
GHS classification Classification of the sub Not a hazardous substance			armonized System (	GHS)	
Pictograms Signal word	None				
Hazard statements Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)					
Precautionary statements-(Prevention) <ul> <li>Not applicable</li> </ul> <li>Precautionary statements-(Response) <ul> <li>Not applicable</li> </ul> </li>					
Precautionary statement	ts-(Storage)				
Not applicable Precautionary statements-(Disposal)     Not applicable					
Others Other hazards	Not ava	ailable			
Section 3: COMPOSITION/INFORMATION ON INGREDIENTS					
Single Substance or Mixture Substance					
Formula	MoS2				
Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Molybdenum(IV) Sulfide	93.0	160.06	(1)-481	公表	1317-33-5
Note on ISHL No.:	* in the	table means announ	ced chemical substa	ances.	

#### Impurities and/or Additives: Not ap

Not applicable

# Section 4: FIRST AID MEASURES

### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### Protection of first-aiders

Use personal protective equipment as required.

# Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment **Unsuitable extinguishing media** 

No information available

#### Specific hazards arising from the chemical product

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

Special extinguishing method

# No information available

# Special protective actions for

#### fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

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

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

#### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

### Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

# No information available

# Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# Section 7: HANDLING AND STORAGE

#### Handling

#### **Technical measures**

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

#### Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought

contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

Store away from sunlight in well-ventilated place at room temperature (preferably cool).

#### Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

### Storage

Safe storage conditions Storage conditions

Safe packaging material Incompatible substances

Keep container tightly closed. Glass Strong oxidizing agents

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

#### **Exposure limits**

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Molybdenum(IV) Sulfide	N/A	N/A	TWA: 10 mg/m <sup>3</sup> Mo inhalable
1317-33-5			particulate matter
			TWA: 3 mg/m <sup>3</sup> Mo respirable
			particulate matter

#### Personal protective equipment

Respiratory protection	Dust ma
Hand protection	Protecti
Eye protection	protectiv
Skin and body protection	Long-sl
General hygiene considerations	

ask ion gloves ive eyeglasses or chemical safety goggles leeved work clothes

eneral hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	grayish brown
Appearance	powder
Odor	no data available
Melting point/freezing point	2375 °C
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	water : slightly soluble . aqua regia : soluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	5.06
Vapour density	no data available
Particle characteristics	no data available

# Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Extremes of temperature and direct sunlight
 Incompatible materials

 Strong oxidizing agents
 Hazardous decomposition products

 Molybdenumoxides, Sulfur oxides (SOx), Metal oxides

# Section 11: TOXICOLOGICAL INFORMATION

no data available

Skin irritation/corrosion	no data available
Serious eye damage/ irritation	no data available
Respiratory or skin sensitization	no data available
Reproductive cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

# Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

Persistence and degradabilityNo information availableBioaccumulative potentialNo information availableMobility in soilNo information availableHazard to the ozone layerNo information available

# Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Not regulated

Packing group Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -
Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -
Packing group Environmentally Hazardous Substance	Not applicable

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed		
Japanese regulations			
Fire Service Act	Not applicable		
Poisonous and Deleterious	Not applicable		
Substances Control Law			
Industrial Safety and Health Ac			the Label (Law Art.57,
	Para.1, Enforcement Order A		
		Art.57-2, Enforcement Oder Ar	t.18-2 Attached Table
	No.9)No.603		
Regulations for the carriage	Not applicable		
and storage of dangerous			
goods in ship			
Civil Aeronautics Law	Not applicable		
Pollutant Release and Transfer	Class 1		
Register Law			
(~2023.3.31)			
Class 1 - No.	453		
Pollutant Release and Transfer	<u>Class 1</u>		
Register Law			
<u>(2023/4/1~)</u> Class 1 - No.	453		
Water Pollution Control Act		t 2 Dara 1 Enfarcament Orda	r Art 2 2)
	i i	rt.2 Para.4, Enforcement Orde	I AII.3-3)
Export Trade Control Order	Not applicable Hazardous Air Pollutants		
Air Pollution Control Law			
Chemical Name	Poisonous and Deleterious	Industrial Safaty and Haalth Act	Pollutant Release and Transi
	Substances Control Law	Industrial Safety and Health Act Substances	Register Law
	Casolanooo Control Law		(

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)	
Molybdenum(IV) Sulfide 1317-33-5(93.0)	-	Applicable	Applicable	

# Section 16: OTHER INFORMATION

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
	etc

#### Disclaimer

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

#### End of Safety Data Sheet