



MATERIAL SAFETY DATA SHEET

FOR

MOLYBDENUM DISULFIDE (MoS₂)

A. IDENTIFICATION OF SUBSTANCE

1. Product identifiers

Product name: Molybdenum Disulfide Crystal all sizes.

Supplier: MoS₂ crystals

2. Substance information

Product name: Molybdenum (IV) Disulfide

Formula: MoS₂

Cas number: 1317-33-5

Molecular weight: 160,07 g/mol

3. Relevant identified use

Laboratory chemicals. For R&D purposes only.

B. HEALTH HAZARDS

1. HAZARDS RATINGS

Hazardous components: Molybdenum disulfide

OSHA/PEL: $5\text{mg}/\text{m}^3$ (as Mo)

ACGIH/TLV: $5\text{mg}/\text{m}^3$ (as Mo)

HMIS Rating: Health: 3, Flammability: 1, Reactivity: 2

2. FIRST AID

Inhalation: remove to fresh air

Eye contact: Flush with water for 15-20 minutes. Seek medical help

Skin contact: Wash with soap and water

Ingestion: Do not induce vomiting, drink 1-2 glasses of water and get medical help immediately.

C. PROPERTIES

1. PHYSICAL PROPERTIES

Appearance: Black, lustrous crystalline pieces

Melting point: 1185°C

Relative density: $5060\text{ g}/\text{cm}^3$

Solubility in water: Insoluble

Reaction with water: May form H_2S

2. STABILITY AND REACTIVITY

Reactivity: no data available

Chemical stability: no data available

Conditions to avoid: heat, excessive moisture.

Possibility of hazardous reaction: no data available

Conditions to avoid: no data available

Incompatible materials: Hydrogen peroxide, oxidizing agents

Hazardous decomposition products: May form H₂S

D. PROTECTIVE EQUIPMENT

Protective gloves: Neoprene

Eye protection: Safety glasses

Other: Protective clothing to prevent contamination of skin and clothes

E. HANDLING AND STORAGE

Precautions for handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols

Storage instructions

Store in a sealed container in a cool, dry place. Wash hands after handling and before meals.

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MoS₂ Crystals shall not be held liable for any damage resulting from handling or from contact with the above product.

September 2012