

Safety data sheet

Molybdenum

Print date: 27.08.2025

according 1907/2006/EG, Article 31

1. Identification of the substance/preparation

Chemical name: Molybdenum, Molybdenum Wire

Supplier

EDM-TEC oHG

Wilhelm-Conrad-Röntgen-Str. 8 D-56759 Kaisersesch
Tel.: +49(0)2653-91516-0 Fax: +49(0)2653-91516-26
E-Mail: info@edm-tec.de Internet: www.edm-tec.de

2. Composition /Data on components

Chemical characterization:

Description: (CAS#) 7439-98-7

Molybdenum (CAS# 7439-98-7): ≥99.95%

3. Hazards identification

Not applicable

4. First-aid measures

Skin: Not applicable
Ingestion: Not applicable
Inhalation: Not applicable
Eyes: Not applicable
Remarks first aid: None

5. Fire fighting measures

Fire-extinguisher: Determined by surrounding
Hazardous decomposition products in fire: Molybdenum trioxide

6. Accidental release measures

Procedure by spillage: Not applicable

7. Handling and storage

Local exhausting: Under normal circumstances not applicable.
Storage conditions: No special precautions

8. Exposure controls/personal protection

Exposure limits (20 °C And 1013 mbar)
TLV: 6 mg/m³ Molybdenum (molybdenum as compounds, as molybdenum, insoluble)
Remarks exposure limits: None Odor threshold: Not applicable
Personal protection: Skin: Not applicable
Eyes: Not applicable Inhalation: Not applicable

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9. Physical and chemical properties

Physical state: Article
Color: Grey
Odor: Odorless
Boiling point/range (°C): 4800
Melting point/range (°C): 2620
Flash point/range (°C): Not applicable
Explosive limits: Not applicable
Dust explosions possible in area: No
Density at 20 °C: 10.2 g/cm³
Vapor pressure in kPa: Not applicable
Solubility in water: Not applicable
Reacts acidic/basic/neutral: Not applicable
Viscosity: Not applicable
Autoignition temperature (°C): Unknown
Electrostatic change: None
Log Po/W: Not applicable

10. Stability and reactivity

Conditions to avoid: None
Reaction with water: No
Hazardous reactions with: Strong acids, fluorine
Hazardous decomposition products at heating: None

11. Toxicological information

Symptoms
Skin - local: Produces no symptoms.
general: Not applicable.
Ingestion - local: Produces no symptoms
general: Not applicable.
Inhalation - local: The substance is in fine particles prickling: coughing.
general: Not applicable.
Eyes - local: The substance is prickling: redness.
Remarks symptoms: Troublesome concentrations may arise if dust clouds are formed
Toxicity: LD-50 unknown

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12. Ecotoxicological information

Biochemical oxygen demand: Not applicable

Chemical oxygen demand: Not applicable

Ecotoxicity: Not applicable

Remarks on ecotoxicity: None

13. Disposal considerations

Remainder material has to be incinerated in a proper installation or dumped on an approved landfill, in accordance with local and national legislation

14. Transport information

Class/figure RID/ADR: None

Class IMO: None

Class ICAO: None

UN number: None

15. Regulations

Product related hazard information:

Observe the general safety regulations when handling chemical

National regulations

All components of this product are listed in the U.S. Environmental Protection

Agency Toxic Substances Control Act Chemical substance Inventory.

Information about limitation of use: For use only by technically qualified individual.

16. Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.