



SAFETY DATA SHEET

Date of issue: 27/11/02

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 29268

ID No.: 2926800

Product name: **Molybdenum disulphide GPR**

Use of the substance/preparation: General chemical reagent

Manufacturer/supplier identification

Company: VWR International Ltd., Hunter Boulevard, Lutterworth,
Leics, LE17 4XN, England
Telephone : + 44 (0) 1455 207000 Telefax : + 44 (0) 1455 558586
E-mail: product.support@uk.vwr.com

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2. Hazards identification

Not classified as dangerous according to EC Directives.
Spilt material may lead to slippery surfaces.

3. Composition/information on ingredients

Chemical characterization

Inorganic solid

Product name: Molybdenum disulphide

CAS number: 1317-33-5

EC-No.: 215-263-9

Molecular formula: MoS₂, = 160.06 g/mol

4. First-aid measures

- Eye contact: Irrigate thoroughly with water. If discomfort persists obtain medical attention.
- Inhalation: Remove from exposure.
- Skin contact: Wash off thoroughly with soap and water.
- Ingestion: Wash out mouth thoroughly with water. In severe cases obtain medical attention.

5. Fire-fighting measures

Special risks:

Not combustible. May evolve toxic fumes in fire.(sulphur oxides)

Suitable extinguishing media:

To suit environment.

6. Accidental release measures

Wear appropriate protective clothing.

Mix with dry sand, transfer carefully to container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

7. Handling and storage

Handling:

Avoid generation of dusts. Change contaminated clothing. Wash hands after working with substance.

Storage:

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

8. Exposure controls/personal protection

UK Exposure Limits:

WEL - Molybdenum compounds, insoluble (as Mo):

Long term: 10 mg/m³ Short term: 20 mg/m³

Personal protective equipment:

Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation. As appropriate to the situation and the quantity handled.

- Ventilation: Extraction hood
- Respirator: Dust respirator when dusts are generated.
- Gloves: Rubber or plastic
- Eye Protection: Goggles or face-shield
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

9. Physical and chemical properties

General information:

Form:	solid
Colour:	black
Odour:	odourless

Health, safety and environmental information:

Melting temperature	1185°C
Boiling temperature	450°C (Sublimes)
Density(g/ml)	4.80
Bulk density:	500 Kg/m ³

Solubility in water

Immiscible or insoluble

10. Stability and reactivity

Stable.

Substances to be avoided

fluorine, nitrates (risk of explosion!), mineral acids (Formation of: hydrogen sulphide), oxidizing agents

11. Toxicological information

Hazardous properties cannot be excluded but unlikely when handled appropriately. The product should be handled with the care usual when dealing with chemicals.

Further data

LD > 2g/kg (oral, rat)

LD > 2g/kg (dermal, rat)

LC50 > 2820 mg/m³/4h

We have no evidence of carcinogenic effects. We have no evidence of mutagenic or teratogenic effects.

12. Ecological information

A harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal.

Further ecological data:

The following applies to molybdenum compounds in general: biological effects: fish: lethal from 25 mg/l up; algae: Sc. quadricauda toxic from 54 mg/l up; protozoa: Microregma toxic from 27 mg/l up.

13. Disposal considerations

Chemical residues are generally classified as hazardous or special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC directives

Not classified as dangerous according to EC Directives.

EC-No.: 215-263-9

Local Regulations

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

16. Other information

Revision.

Supersedes issue of 18/08/94

Changes in Section : 5,7,11,12

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