

**SAFETY DATA SHEET**

According to article 31 and Annex II of the EU REACH Regulation

Version: 2.0  
Revision Date: 26.07.2010  
Superseded date: 09.11.2007**MOLYKOTE(R) Z POWDER****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

- 1.1 Product name** : MOLYKOTE(R) Z POWDER
- 1.2 Identified uses** : Lubricants and additives
- Uses advised against** : None known.
- 1.3 Company** : Dow Corning Europe S.A.  
rue Jules Bordet - Parc Industriel - Zone C  
B-7180 Seneffe  
Belgium
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Dow Corning (Wiesbaden 24h) Tel: +49 61122158  
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**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****According to Regulation (EC) No. 1272/2008:**

Not hazardous.

**According to EU Directives 67/548/EEC or 1999/45/EC:**

Not hazardous.

**2.2 Label elements****Precautionary statements:**

Do not breathe dust.

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**MOLYKOTE(R) Z POWDER****3. COMPOSITION / INFORMATION ON INGREDIENTS****Chemical characterization:** Metal sulphide**According to EU Directives 67/548/EEC or 1999/45/EC:**

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Molybdenum sulfide	1317-33-5	215-263-9	-	98.0	Substance with a Community workplace exposure limit

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CLP classifications are based on all current available data including from known international organizations. These classifications are subject to revision as more information becomes available.

**4. FIRST AID MEASURES****4.1 Description of First Aid Measures:**

- On contact with eyes** : Flush with water.
- On skin contact** : Flush with water.
- If inhaled** : Remove to fresh air.
- On ingestion** : No first aid should be needed.

**5. FIRE-FIGHTING MEASURES**

- 5.1 Suitable extinguishing media** : On large fires use dry chemical, foam or water spray (fog). On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.
- Unsuitable extinguishing media** : None known.
- 5.2 Hazards during fire fighting** : Avoid the formation of dust clouds which may ignite or explode. Take precautionary measures against static discharge.
- Hazardous Combustion Products** : Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Sulphur products.
- 5.3 Special protective equipment/procedures** : A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

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**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures** : Wear proper protective equipment.
- 6.2 Environmental precautions** : Do not allow large quantities to enter drains or surface waters.
- 6.3 Methods and materials for containment and cleaning up** : Eliminate all possible sources of ignition. Determine the need to evacuate or isolate the area according to your local emergency plan. Pick up with an industrial vacuum cleaner.

**7. HANDLING AND STORAGE**

- 7.1 Advice on safe handling** : Local ventilation is required. Do not breathe dust. Avoid skin and eye contact. Do not empty into drains.
- 7.2 Advice on storage** : Do not store with oxidizing agents. Take precautionary measures against static discharge. Storage temperature: minimum 0 °C, maximum 40 °C
- 7.3 Specific uses** : Refer to technical data sheet available on request.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

Name	CAS-No.	Exposure Limits
Molybdenum sulfide	1317-33-5	10 mg/m3 TWA as Mo, insoluble compounds 20 mg/m3 STEL as Mo, insoluble compounds

**8.2 Exposure controls**

**Engineering Controls** : Ventilation : Refer to Section 7.1

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**MOLYKOTE(R) Z POWDER****Personal protection equipment**

- Respiratory protection** : A dust mask should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded. The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.
- Hand protection** : Chemical protective gloves should be worn where repeated or prolonged contact can occur: Silver shield(TM). 4H(TM). Regarding glove's breakthrough time, contact your chemical protective glove supplier.
- Eye/face protection** : Safety goggles should be worn.
- Skin protection** : Protective equipment is not normally necessary.
- Hygiene measures** : Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
- Additional information** : These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.
- Environmental exposure controls** : Refer to section 6 and 12.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form** : Fine Powder
- Colour** : Charcoal gray
- Odour** : None
- Explosive properties** : No
- Specific Gravity** : 4.8
- Oxidizing properties** : No

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

**10. STABILITY AND REACTIVITY**

- 10.1 Reactivity** : None known.
- 10.2 Stability** : Stable under normal usage conditions.
- 10.3 Possibility of hazardous reactions** : None known.
- 10.4 Conditions to avoid** : None established.

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- 10.5 Materials to avoid** : Can react with strong oxidising agents.
- 10.6 Hazardous decomposition products** : Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Sulphur products.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity:**

- On contact with eyes** : Mechanical irritation of the eyes is possible.
- On skin contact** : Contact with dust can cause mechanical irritation or drying of the skin.
- If inhaled** : Inhalation of dust may cause a sore throat and cough.
- On ingestion** : Small amounts transferred to the mouth by fingers during use should not injure.

**Chronic toxicity:**

- On skin contact** : Prolonged or repeated contact may dry skin and cause irritation.
- If inhaled** : Prolonged or repeated inhalation may cause shortness of breath, tightness of the chest, a sore throat and cough.
- On ingestion** : Small amounts transferred to the mouth by fingers during use should not injure.

**Toxicokinetics, metabolism and distribution** : No specific information is available.

- <sup>1</sup> Based on product test data.
- <sup>2</sup> Based on test data from similar products.

**12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity effects**

No adverse effects on aquatic organisms are predicted.

**12.2 Persistence and degradability**

Solid material, insoluble in water. No adverse effects are predicted.

**12.3 Bioaccumulation**

No bioaccumulation potential.

**12.4 Release to waters / Mobility in soil**

**Fate and effects in waste water treatment plants:**

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No adverse effects on bacteria are predicted.

**12.5 Results of PBT and vPvB assessment**

Not applicable.

**13. DISPOSAL CONSIDERATIONS**

**Product and packaging disposal** : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

**14. TRANSPORT INFORMATION****Road / Rail (ADR/RID)**

Not subject to ADR/RID.

**Sea transport (IMDG)**

Not subject to IMDG code.

**Air transport (IATA)**

Not subject to IATA regulations.

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Status**

**EINECS** : All ingredients listed, exempt or notified (ELINCS).

**TSCA** : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**AICS** : All ingredients listed, exempt or notified.

**IECSC** : All ingredients listed or exempt.

**KECL** : All ingredients listed, exempt or notified.

**PICCS** : All ingredients listed, exempt or notified.

**DSL** : All ingredients listed or exempt.

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**MOLYKOTE(R) Z POWDER****ENCS/ISHL** : All ingredients listed, exempt or notified.**16. OTHER INFORMATION**

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Dow Corning product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Dow Corning Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Dow Corning shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Dow Corning supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Dow Corning supplier.

Source of information: Internal data and publically available information