

SAFETY DATA SHEET

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

Version: 2.0

Revision Date: 19.11.2010

Superseded date: 12.10.2005

MOLYKOTE(R) 7400 ANTI-FRICTION COATING**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

1.1 Product name	: MOLYKOTE(R) 7400 ANTI-FRICTION COATING	
1.2 Identified uses	: Coatings	
Uses advised against	: None known.	
1.3 Company	: Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Belgium	
E-mail address (Safety Data Sheet)	: sdseu@dowcorning.com	
Customer Service	: English Deutsch Français Italiano Español	Tel: +49 611237507 Tel: +49 611237500 Tel: +32 64511149 Tel: +32 64511170 Tel: +32 64511163 Fax: +32 64888683
1.4 Emergency Phone Number	: Dow Corning (Barry U.K. 24h) Dow Corning (Wiesbaden 24h) Dow Corning (Seneffe 24h)	Tel: +44 1446732350 Tel: +49 61122158 Tel: +32 64 888240

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

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

Not hazardous.

2.2 Label elements**Labelling according to EEC Directive**

S-phrases : S23(S) Do not breathe spray.
S23(V) Do not breathe vapour.
S51 Use only in well-ventilated areas.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Acrylic resin**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	-	13.0	Substance with a Community workplace exposure limit
Graphite	7782-42-5	231-955-3	-	6.4	Substance with a Community workplace exposure limit
Sodium molybdate (VI) dihydrate	10102-40-6	Exempt or not available	-	2.0	Xi R36
Ethylene glycol	107-21-1	203-473-3	-	1.0	Xn R22

According to Regulation (EC) No. 1272/2008:

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Molybdenum sulfide	1317-33-5	215-263-9	-	13.0	Substance with a Community workplace exposure limit
Graphite	7782-42-5	231-955-3	-	6.4	Substance with a Community workplace exposure limit
Sodium molybdate (VI) dihydrate	10102-40-6	Exempt or not available	-	2.0	Serious eye damage/eye irritation: Category 2 - H319
Ethylene glycol	107-21-1	203-473-3	-	1.0	Acute toxicity (Oral): Category 4 - H302

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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 : No first aid should be needed.**On skin contact** : No first aid should be needed.**If inhaled** : Remove to fresh air.**On ingestion** : No first aid should be needed.

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- 5.1 Suitable extinguishing media** : On large fires use dry chemical, foam or water spray (fog). On small fires use carbon dioxide (CO₂), 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** : None known.
- Hazardous Combustion Products** : Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Sulphur products. Chlorine compounds.
- 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.

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** : Determine the need to evacuate or isolate the area according to your local emergency plan. Very large spills should be contained by bunding, etc... procedures. Mop, wipe or soak up with absorbent material and place in a container with a lid. The spilled product produces an extremely slippery surface.

7. HANDLING AND STORAGE

- 7.1 Advice on safe handling** : General ventilation is recommended. Local ventilation is recommended. Do not breathe spray or mist. Do not breathe vapour. Avoid eye contact. Do not empty into drains.
- 7.2 Advice on storage** : Do not store with oxidizing agents.
Storage temperature: minimum 1 °C, maximum 30 °C
- 7.3 Specific uses** : Refer to technical data sheet available on request.

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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
Graphite	7782-42-5	10 mg/m3 TWA Inhalable dust 4 mg/m3 STEL Respirable dust
Sodium molybdate (VI) dihydrate	10102-40-6	5 mg/m3 TWA as Mo 10 mg/m3 STEL as Mo
Ethylene glycol	107-21-1	20 ppm TWA 40 ppm STEL 52 mg/m3 TWA 104 mg/m3 STEL

8.2 Exposure controls

Engineering Controls : Ventilation : Refer to Section 7.1

Personal protection equipment

Respiratory protection : Suitable respiratory protection 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.
A suitable respirator must be worn if the product is used in any circumstances where an aerosol or mist may be generated, such as during spraying or similar activities.
Depending on the working conditions, wear a respiratory mask with filter(s) ABP or use a self-contained respirator.
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 : Gloves are not normally required.

Eye/face protection : Safety glasses 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. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these types of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

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Environmental exposure controls : Refer to section 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

Colour : Gray

Odour : Slight

Boiling point/range : > 35 °C

Flash point : > 100 °C (Closed Cup)

Explosive properties : No

Specific Gravity : 1.165

Viscosity : 24 cSt at 25°C.

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.

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: Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Sulphur products. Chlorine compounds.

11. TOXICOLOGICAL INFORMATION**Acute toxicity:**

On contact with eyes : May cause temporary discomfort.

On skin contact : No adverse effects are normally expected.

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If inhaled : No adverse effects are normally expected.

On ingestion : No adverse effects are normally expected.

Chronic toxicity:

On skin contact : No adverse effects are normally expected.

If inhaled : No adverse effects are normally expected.

On ingestion : No adverse effects are normally expected.

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

Other Health Hazard Information : This product contains (a) powder(s) hazardous by inhalation. This is not relevant to the current physical form of the product, which is not in a respirable form. Product may emit formaldehyde vapour at temperatures above 150°C in the presence of air. Formaldehyde vapour is a suspected carcinogen, toxic by inhalation and irritating to eyes and the respiratory system. Exposure limits should be strictly respected.

¹ Based on product test data.

² 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

The product is poorly biodegradable.

12.3 Bioaccumulation

No bioaccumulation potential.

12.4 Release to waters / Mobility in soil**Fate and effects in waste water treatment plants:**

No adverse effects on bacteria are predicted.

12.5 Results of PBT and vPvB assessment

Not applicable.

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MOLYKOTE(R) 7400 ANTI-FRICTION COATING**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**

AICS : All ingredients listed, exempt or notified.

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

DSL : All ingredients listed or exempt.

ENCS/ISHL : All ingredients listed, exempt or notified.

KECL : One or more ingredients are not listed or exempt or identified.

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

IECSC : All ingredients listed or exempt.

PICCS : All ingredients listed, exempt or notified.

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MOLYKOTE(R) 7400 ANTI-FRICTION COATING**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

R22 Harmful if swallowed., **R36** Irritating to eyes.

H302 Harmful if swallowed., **H319** Causes serious eye irritation.