

PRODUCT SAFETY DATA SHEET

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

Version: 2.0

Revision Date: 28.05.2009

MOLYKOTE(R) D 10 ANTI-FRICTION COATING**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

Trade name : MOLYKOTE(R) D 10 ANTI-FRICTION COATING

Company : Dow Corning Europe S.A.
rue Jules Bordet - Parc Industriel - Zone C
B-7180 Seneffe
Belgium

Service : Dow Corning Central Europe Tel: +49 6112371
Fax: +49 611237609
Dow Corning Northern Europe Tel: +44 1676528000
Fax: +44 1676528001
Dow Corning Southern Europe Tel: +33 472841360
Fax: +33 472841379

Emergency Phone Number : Dow Corning (Barry U.K. 24h) Tel: +44 1446732350
Dow Corning (Wiesbaden 24h) Tel: +49 61122158
Dow Corning (Seneffe 24h) Tel: +32 64 888240

E-mail address (Safety Data Sheet) : sdseu@dowcorning.com

Use of the substance/preparation : Coatings
Lubricants and additives

2. HAZARDS IDENTIFICATION

The principal hazards of the product as supplied are:

Irritating to eyes, respiratory system and skin.
May cause harm to the unborn child.

Vapours may form explosive mixtures with air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Organoresin compound

Hazardous Ingredients:

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification
N-Methyl-2-pyrrolidone	872-50-4	212-828-1	51.0	Xi R36/37/38 T, Repr. Cat. 2 R61

4. FIRST AID MEASURES

On contact with eyes : Immediately flush with water. If eye irritation persists, consult a specialist.

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On skin contact	:	Immediately flush with water. Obtain medical attention.
If inhaled	:	Remove to fresh air. Obtain medical attention.
On ingestion	:	Do not induce vomiting. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	On large fires use dry chemical, foam or water spray (fog). On small fires use carbon dioxide (CO ₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
Unsuitable extinguishing media	:	None known.
Hazards during fire fighting	:	Vapours may form explosive mixtures with air.
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.
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. Nitrogen products. Traces of fluorinated products.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Wear proper protective equipment.
Environmental precautions	:	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
Methods for 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

Advice on safe handling	:	Avoid skin and eye contact. General ventilation is required. Local ventilation is recommended. Do not breathe spray or mist. Do not breathe vapour. Do not ingest.
Advice on storage	:	Do not store with oxidizing agents. Vapours may form explosive mixtures with air.
Specific uses	:	Refer to technical data sheet available on request.

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Unsuitable packaging materials : None known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls : Ventilation : Refer to Section 7

Exposure controls for hazardous components

Name	CAS-No.	Exposure Limits
N-Methyl-2-pyrrolidone	872-50-4	25 ppm TWA 75 ppm STEL 103 mg/m ³ TWA 309 mg/m ³ STEL

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) AP 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 : Chemical protective gloves should be worn: Silver shield(TM). 4H(TM). Regarding glove's breakthrough time, contact your chemical protective glove supplier.

Eye protection : Face shield or safety goggles.

Skin protection : Wear impervious overalls in circumstances where significant skin contact can occur.

Hygiene measures : Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Environmental exposure controls : Refer to section 6 and 12.

Additional information : These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form: Viscous Liquid **Colour:** Black **Odour:** Solvent

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Important health, safety and environmental information

Boiling point/range	:	> 35 °C
Flash point	:	65 °C (Closed Cup)
Explosive properties	:	No Vapours may form explosive mixtures with air.
Specific Gravity	:	1.3
Viscosity	:	27,500 cP 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

Stability	:	Stable under normal usage conditions.
Conditions to avoid	:	None established.
Materials to avoid	:	Can react with strong oxidising agents.
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. Nitrogen products. Traces of fluorinated products.

11. TOXICOLOGICAL INFORMATION

On contact with eyes	:	Irritating.
On skin contact	:	Irritating. May cause harm to the unborn child. Repeated or prolonged contact may cause defatting of the skin, leading to dermatitis.
If inhaled	:	The vapour is irritating to the mouth, nose and throat. May cause harm to the unborn child. May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentrations, unconsciousness.
On ingestion	:	May cause harm to the unborn child.
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.

¹ Based on product test data.

² Based on test data from similar products.

12. ECOLOGICAL INFORMATION

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MOLYKOTE(R) D 10 ANTI-FRICTION COATING**Environmental fate and distribution**

The organic solvents in the product are biodegradable. Organic solvents may evaporate into the atmosphere, where they degrade.

Ecotoxicity effects

No adverse effects on aquatic organisms are predicted.

Bioaccumulation : Low potential to bioaccumulate.

Fate and effects in waste water treatment plants

No adverse effects on bacteria are predicted.

13. DISPOSAL CONSIDERATIONS

Product 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.

Packaging disposal : Dispose of in accordance with local regulations. 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.

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MOLYKOTE(R) D 10 ANTI-FRICTION COATING**15. REGULATORY INFORMATION****Labelling according to EEC Directive****Contains** : N-Methyl-2-pyrrolidone**Symbols** : T Toxic.**R-phrases** : R36/37/38 Irritating to eyes, respiratory system and skin.
R61 May cause harm to the unborn child.**S-phrases** : S2 Keep out of the reach of children.
S23(S) Do not breathe spray.
S37/39 Wear suitable gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S51 Use only in well-ventilated areas.
S53 Avoid exposure - obtain special instructions before use.**Other phrases** : Restricted to professional users.**National legislation / regulations****Ozone depleting chemicals** : No ozone depleting chemicals are present or used in manufacture.**Status****KECL** : All ingredients listed, exempt or notified.**TSCA** : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.**EINECS** : All ingredients listed, exempt or notified (ELINCS).**PICCS** : One or more ingredients are not listed or exempt.**ENCS/ISHL** : All ingredients listed, exempt or notified.**IECSC** : All ingredients listed or exempt.**DSL** : All ingredients listed or exempt.**AICS** : Consult your local Dow Corning office.

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MOLYKOTE(R) D 10 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.

R36/37/38 Irritating to eyes, respiratory system and skin., **R61** May cause harm to the unborn child.