

PRODUCT SAFETY DATA SHEET

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

Version: 2.0

Revision Date: 23.02.2009

MOLYKOTE(R) 1000 PASTE

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade name	:	MOLYKOTE(R) 1000 PASTE	
Company	:	Dow Corning 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	:	Lubricants and additives	

2. HAZARDS IDENTIFICATION

The principal hazards of the product as supplied are:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Inorganic and organic compounds in mineral oil

Hazardous Ingredients:

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	<=42,0	
Distillates (petroleum), solvent dewaxed light paraffinic; baseoil - unspecified	64742-56-9	265-159-2	<=42,0	
Polybutene	9003-29-6	Exempt or not available	6,0	
Zinc	7440-66-6	231-175-3	4,0	N R50/53

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MOLYKOTE(R) 1000 PASTE**4. FIRST AID MEASURES**

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

5. FIRE FIGHTING MEASURES

- 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.
- Hazards during fire fighting** : Toxic vapours are evolved.
- 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: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Toxic vapours of fluorinated compounds. Nitrogen products.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear proper protective equipment.
- Precautions to protect the environment** : Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
- Methods for cleaning up** : Scrape up and place in a container fitted with a lid. The spilled product produces an extremely slippery surface.

7. HANDLING AND STORAGE

- Advice on safe handling** : General ventilation is required. Local ventilation is recommended. Avoid skin and eye contact. Do not breathe spray or mist.

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Advice on storage : Do not store with oxidizing agents.

Specific uses : Refer to technical data sheet available on request.

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
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
Distillates (petroleum), solvent dewaxed light paraffinic; baseoil - unspecified	64742-56-9	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
Polybutene	9003-29-6	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral

Personal protection equipment

Respiratory protection : 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) P 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 where repeated or prolonged contact can occur: Viton(TM). 4H(TM). Silver shield(TM). Nitrile rubber. Regarding glove's breakthrough time...,contact your chemical protective glove supplier.

Eye 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.

Environmental exposure controls : Refer to section 6 and 12.

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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: Paste **Colour:** Brown **Odour:** Slight

Important health, safety and environmental information

Explosive properties : No

Specific Gravity : 1,26

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: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Toxic vapours of fluorinated compounds. Nitrogen products.

11. TOXICOLOGICAL INFORMATION

On contact with eyes : May cause temporary discomfort.

On skin contact : No adverse effects are normally expected.

If inhaled : No adverse effects are normally expected.

On ingestion : Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.

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.

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MOLYKOTE(R) 1000 PASTE**12. ECOLOGICAL INFORMATION****Environmental fate and distribution**

Solid material, insoluble in water.

Ecotoxicity effects

Toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. However, due to the physical form and water-insolubility of the product the bioavailability is negligible.

Fate and effects in waste water treatment plants

No adverse effects on bacteria are predicted.

13. DISPOSAL CONSIDERATIONS

- Product disposal** : This material must be disposed of as hazardous waste. 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)**

- UN No.** : UN 3077
- Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Zinc / Copper metal powder)
- Class** : 9
- Packing group** : III
- Labels** : 9

Sea transport (IMDG)

- UN No.** : UN 3077
- Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Zinc / Copper metal powder)
- Class** : 9
- Packing group** : III

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Emergency Schedule (EmS)	:	F-A S-F
Marine pollutant	:	Zinc Copper metal powder
Labels	:	miscellaneous
<u>Air transport (IATA)</u>		
UN No.	:	UN 3077
Proper Shipping Name	:	Environmentally hazardous substance, solid, n.o.s.(Zinc / Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous dangerous goods Apply Gross Wt Supplemental Label to Outer Package if shipping Limited Quantity

15. REGULATORY INFORMATION**Labelling according to EEC Directive**

Symbols	:	N Dangerous for the environment.
R-phrases	:	R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases	:	S24/25 Avoid contact with skin and eyes. S29 Do not empty into drains. S41 In case of fire and/or explosion do not breathe fumes. S57 Use appropriate container to avoid environmental contamination. S60 This material and its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

National legislation / regulations

Ozone depleting chemicals	:	No ozone depleting chemicals are present or used in manufacture.
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MOLYKOTE(R) 1000 PASTE**Status****EINECS** : All ingredients listed or exempt.**TSCA** : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.**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.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.,