

PRODUCT SAFETY DATA SHEET

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

Version: 1.7

Revision Date: 20.02.2008

MOLYKOTE(R) M-55 PLUS DISPERSION**1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

Trade name	:	MOLYKOTE(R) M-55 PLUS DISPERSION	
Company	:	Dow Corning S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Belgium	
Service	:	Dow Corning Central Europe Dow Corning Northern Europe Dow Corning Southern Europe	Tel: +49 6112371 Fax: +49 611237609 Tel: +44 1676528000 Fax: +44 1676528001 Tel: +33 472841360 Fax: +33 472841379
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
E-mail address (Safety Data Sheet)	:	sdseu@dowcorning.com	
Use of the substance/preparation	:	Lubricants and additives	

2. HAZARDS IDENTIFICATION

Not hazardous according to article 31 and Annex II of the EU REACH Regulation and its subsequent amendments.

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), hydrotreated light paraffinic	64742-55-8	265-158-7	54.0	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil based	72623-87-1	276-738-4	23.0	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	21.0	
Distillates (petroleum), solvent refined heavy paraffinic	64741-88-4	265-090-8	5.5	
Molybdenum sulfide	1317-33-5	215-263-9	4.9	

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Hydrotreated Neutral Oil, 72623-86-0 276-737-9 1.2
C15-C30

4. 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

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 : None known.

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. Sulphur 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 : 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.

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MOLYKOTE(R) M-55 PLUS DISPERSION**7. HANDLING AND STORAGE**

Advice on safe handling	:	Avoid eye contact. Do not breathe spray or mist. General ventilation is recommended. Local ventilation is recommended. Do not breathe vapour.
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), hydrotreated light paraffinic	64742-55-8	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil based	72623-87-1	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
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 refined heavy paraffinic	64741-88-4	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
Molybdenum sulfide	1317-33-5	20 mg/m3 STEL as Mo, insoluble compounds 10 mg/m3 STEL as Mo, soluble compounds 10 mg/m3 TWA as Mo, insoluble compounds 5 mg/m3 TWA as Mo, soluble compounds
Hydrotreated Neutral Oil, C15-C30	72623-86-0	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral

Personal protection equipment

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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) BP 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: Polyvinyl alcohol(PVA). Nitrile rubber. Viton(TM). 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.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form:	Liquid	Colour:	Black	Odour:	Slight
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Important health, safety and environmental information

Boiling point/range	:	> 100 °C
Flash point	:	150 °C (Closed Cup)
Explosive properties	:	No
Specific Gravity	:	0.91
Viscosity	:	73.2 s at 25°C.
Oxidizing properties	:	No

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

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MOLYKOTE(R) M-55 PLUS DISPERSION**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. Sulphur products.

11. TOXICOLOGICAL INFORMATION

On contact with eyes	: Slightly irritating.
On skin contact	: Repeated or prolonged contact may cause defatting of the skin, leading to dermatitis.
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. 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****Environmental fate and distribution**

The product is poorly biodegradable.

Ecotoxicity effects

No adverse effects on aquatic organisms are predicted.

Bioaccumulation : Potential to bioaccumulate.

Fate and effects in waste water treatment plants

No adverse effects on bacteria are predicted.

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MOLYKOTE(R) M-55 PLUS DISPERSION**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.

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

- S-phrases** : S23(S) Do not breathe spray.
S24/25 Avoid contact with skin and eyes.
S51 Use only in well-ventilated areas.

National legislation / regulations

- Ozone depleting chemicals** : No ozone depleting chemicals are present or used in manufacture.

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MOLYKOTE(R) M-55 PLUS DISPERSION**Status**

AICS	: All ingredients listed, exempt or notified.
DSL	: All ingredients listed or exempt.
IECSC	: All ingredients listed or exempt.
EINECS	: All ingredients listed, exempt or notified (ELINCS).
KECL	: All ingredients listed, exempt or notified.
PICCS	: 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.