

**PRODUCT SAFETY DATA SHEET**

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

Version: 4.0

Revision Date: 23.04.2009

**MOLYKOTE(R) D-708 AF COATING****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

<b>Trade name</b>	:	MOLYKOTE(R) D-708 AF COATING	
<b>Company</b>	:	Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Belgium	
<b>Service</b>	:	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
<b>Emergency Phone Number</b>	:	Dow Corning (Barry U.K. 24h) Dow Corning (Wiesbaden 24h) Dow Corning (Seneffe 24h)	Tel: +44 1446732350 Tel: +49 61122158 Tel: +32 64 888240
<b>E-mail address (Safety Data Sheet)</b>	:	sdseu@dowcorning.com	
<b>Use of the substance/preparation</b>	:	Lubricants and additives	

**2. HAZARDS IDENTIFICATION**

The principal hazards of the product as supplied are:

Highly flammable.  
Harmful by inhalation.  
Irritating to eyes and skin.  
Possible risk of irreversible effects.

Vapours may form explosive mixtures with air.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Chemical characterization:** Organic compound in solvent

**Hazardous Ingredients:**

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification	
Butanone	78-93-3	201-159-0	40.0	F Xi	R11 R36 R66 R67
Isobutyl methyl ketone	108-10-1	203-550-1	17.0	F Xn Xi	R11 R20 R36/37 R66

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Cyclohexanone	108-94-1	203-631-1	15.0	Xn	R20 R10
Carbon black	1333-86-4	215-609-9	2.0		
Phenol	108-95-2	203-632-7	1.6	C Xn, Muta. Cat. 3 T Xn	R34 R68 R23/24/25 R48/20/21/22
Methylphenol	1319-77-3	Exempt or not available	0.34	T C	R24/25 R34

## 4. FIRST AID MEASURES

<b>On contact with eyes</b>	:	Immediately flush with water. If eye irritation persists, consult a specialist.
<b>On skin contact</b>	:	Immediately flush with water. If skin irritation persists, get medical attention.
<b>If inhaled</b>	:	Remove to fresh air. Obtain medical attention.
<b>On ingestion</b>	:	Do not induce vomiting. Obtain medical attention.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	:	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.
<b>Unsuitable extinguishing media</b>	:	None known.
<b>Hazards during fire fighting</b>	:	Vapours are heavier than air and can travel along ground to remote ignition sources. Toxic vapours are evolved. Vapours may form explosive mixtures with air.
<b>Special protective equipment/procedures</b>	:	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.
<b>Hazardous Combustion Products</b>	:	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. Chlorine compounds.

## 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal precautions</b>	:	Wear proper protective equipment.
<b>Environmental precautions</b>	:	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
<b>Methods for cleaning up</b>	:	Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition. 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

<b>Advice on safe handling</b>	:	Avoid skin and eye contact. Do not breathe vapour. Do not breathe spray or mist. General ventilation is required. Local ventilation is required. Do not ingest.
<b>Advice on storage</b>	:	Store in a flameproof, well ventilated area. Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Keep container tightly closed. Vapours may form explosive mixtures with air.
<b>Specific uses</b>	:	Refer to technical data sheet available on request.
<b>Unsuitable packaging materials</b>	:	None known.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls** : Ventilation : Refer to Section 7

**Exposure controls for hazardous components**

Name	CAS-No.	Exposure Limits
Butanone	78-93-3	300 ppm STEL 200 ppm TWA 899 mg/m3 STEL 600 mg/m3 TWA
Isobutyl methyl ketone	108-10-1	100 ppm STEL 50 ppm TWA 416 mg/m3 STEL 208 mg/m3 TWA
Cyclohexanone	108-94-1	100 ppm STEL 25 ppm TWA 408 mg/m3 STEL 102 mg/m3 TWA
Carbon black	1333-86-4	3.5 mg/m3 TWA

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7 mg/m<sup>3</sup> STEL

Phenol

108-95-2

10 ppm STEL

5 ppm TWA

39 mg/m<sup>3</sup> STEL20 mg/m<sup>3</sup> TWA**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: Polyvinyl alcohol(PVA). Nitrile rubber. Silver shield(TM). 4H(TM). Viton(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:** Liquid      **Colour:** Black      **Odour:** Solvent

**Important health, safety and environmental information**

**Boiling point/range** : > 35 °C

**Flash point** : 0 °C (Closed Cup)

**Autoignition temperature** : 514 °C

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<b>Explosive properties</b>	:	No Vapours may form explosive mixtures with air.
<b>Specific Gravity</b>	:	0.95
<b>Viscosity</b>	:	8.4 s at 25°C.
<b>Oxidizing properties</b>	:	No
<b>Decomposition temperature</b>	:	200 °C

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

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	:	Stable under normal usage conditions.
<b>Conditions to avoid</b>	:	None established.
<b>Materials to avoid</b>	:	Can react with strong oxidising agents.
<b>Hazardous decomposition products</b>	:	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. Chlorine compounds.

**11. TOXICOLOGICAL INFORMATION**

<b>On contact with eyes</b>	:	Irritating.
<b>On skin contact</b>	:	Irritating. Repeated or prolonged contact may cause defatting of the skin, leading to dermatitis. May be harmful in contact with skin (after often repeated exposure).
<b>If inhaled</b>	:	Harmful by inhalation of vapour. May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentrations, unconsciousness.
<b>On ingestion</b>	:	Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.
<b>Other Health Hazard Information</b>	:	Possible risk of irreversible effects: mutagenic effects. - 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.

<sup>1</sup> Based on product test data.

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

**12. ECOLOGICAL INFORMATION****Environmental fate and distribution**

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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)**

**UN No.** : UN 1224

**Proper Shipping Name** : KETONES, LIQUID, N.O.S.(Methyl ethyl ketone / Methyl isobutyl ketone)

**Class** : 3

**Packing group** : II

**Labels** : 3

**Sea transport (IMDG)**

**UN No.** : UN 1224

**Proper Shipping Name** : KETONES, LIQUID, N.O.S.(Methyl ethyl ketone / Methyl isobutyl ketone)

**Class** : 3

**Packing group** : II

**Emergency Schedule (EmS)** : F-E  
S-D

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: Phenol

**Symbols** : F Highly flammable.  
Xn Harmful.**R-phrases** : R11 Highly flammable.  
R20 Harmful by inhalation.  
R36/38 Irritating to eyes and skin.  
R68 Possible risk of irreversible effects.**S-phrases** : S23(S) Do not breathe spray.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S33 Take precautionary measures against static discharges.  
S36/37 Wear suitable protective clothing and gloves.  
S41 In case of fire and/or explosion do not breathe fumes.  
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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Status

ENCS/ISHL	: All ingredients listed, exempt or notified.
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.
IECSC	: All ingredients listed or exempt.
KECL	: One or more ingredients are not listed or exempt or identified.

## 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.

**R10** Flammable., **R11** Highly flammable., **R20** Harmful by inhalation., **R23/24/25** Toxic by inhalation, in contact with skin and if swallowed., **R24/25** Toxic in contact with skin and if swallowed., **R34** Causes burns., **R36** Irritating to eyes., **R36/37** Irritating to eyes and respiratory system., **R48/20/21/22** Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed., **R66** Repeated exposure may cause skin dryness or cracking., **R67** Vapours may cause drowsiness and dizziness., **R68** Possible risk of irreversible effects.