

**PRODUCT SAFETY DATA SHEET**

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

Version: 2.0

Revision Date: 03.01.2008

**MOLYKOTE(R) METALFORM****1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

<b>Trade name</b>	:	MOLYKOTE(R) METALFORM	
<b>Company</b>	:	Dow Corning 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:

Flammable.

Harmful: May cause lung damage if swallowed.

Vapours may form explosive mixtures with air.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Chemical characterization:** Wax

**Hazardous Ingredients:**

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification	
Naphtha (petroleum), hydrotreated heavy	64742-48-9	265-150-3	87.0	Xn	R65 R10
4-Methylpentan-2-ol	108-11-2	203-551-7	5.0	Xi	R10 R37
Hexamethyldisiloxane	107-46-0	203-492-7	0.1	F N	R11 R50

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**MOLYKOTE(R) METALFORM****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** : 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<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.
- Unsuitable extinguishing media** : None known.
- Hazards during fire fighting** : Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. 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: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

**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. 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.

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## 7. HANDLING AND STORAGE

<b>Advice on safe handling</b>	:	General ventilation is required. Local ventilation is recommended. Avoid skin and eye contact. Do not breathe vapour. Do not breathe spray or mist. 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
Naphtha (petroleum), hydrotreated heavy	64742-48-9	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
4-Methylpentan-2-ol	108-11-2	40 ppm STEL 25 ppm TWA 170 mg/m3 STEL 106 mg/m3 TWA
Hexamethyldisiloxane	107-46-0	200 ppm (8h TWA) Dow Corning recommendation.

**Personal protection equipment**

<b>Respiratory protection</b>	:	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.
<b>Hand protection</b>	:	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.
<b>Eye protection</b>	:	Safety goggles should be worn.

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<b>Skin protection</b>	:	Wear impervious overalls in circumstances where significant skin contact can occur.
<b>Hygiene measures</b>	:	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
<b>Environmental exposure controls</b>	:	Refer to section 6 and 12.
<b>Additional information</b>	:	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 ( <a href="http://www.SEHSC.com">www.SEHSC.com</a> ) or contact the Dow Corning customer service group.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

**Form:** Liquid                      **Colour:** Colorless                      **Odour:** Slight

Important health, safety and environmental information

<b>Boiling point/range</b>	:	> 35 °C
<b>Flash point</b>	:	28 °C (Closed Cup)
<b>Explosive properties</b>	:	No Vapours may form explosive mixtures with air.
<b>Specific Gravity</b>	:	0.75
<b>Viscosity</b>	:	0.99 cSt at 25°C.
<b>Oxidizing properties</b>	:	No

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.

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## 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** : May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentrations, unconsciousness.
- On ingestion** : Can cause serious injury if aspirated into the lungs. Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.
- Other Health Hazard Information** : 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.

<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**

Organic solvents may evaporate into the atmosphere, where they degrade. 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.

## 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)**

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**UN No.** : UN 1993

**Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Naphtha / 4-methyl-2-pentanol)

**Class** : 3

**Packing group** : III

**Labels** : 3

**Sea transport (IMDG)**

**UN No.** : UN 1993

**Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Naphtha / 4-methyl-2-pentanol)

**Class** : 3

**Packing group** : III

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

**Labels** : flammable liquid

**Air transport (IATA)**

**UN No.** : UN 1993

**Proper Shipping Name** : Flammable liquid, n.o.s.(Naphtha / 4-methyl-2-pentanol)

**Class** : 3

**Packing group** : III

**Labels** : Flammable Liquid

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**MOLYKOTE(R) METALFORM****15. REGULATORY INFORMATION****Labelling according to EEC Directive**

<b>Contains</b>	: Naphtha (petroleum), hydrotreated heavy
<b>Symbols</b>	: Xn Harmful.
<b>R-phrases</b>	: R10 Flammable. R65 Harmful: May cause lung damage if swallowed.
<b>S-phrases</b>	: S2 Keep out of the reach of children. S23(S) Do not breathe spray. S23(V) Do not breathe vapour. S24/25 Avoid contact with skin and eyes. S51 Use only in well-ventilated areas. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**National legislation / regulations**

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

**Status**

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

**IECSC** : All ingredients listed or exempt.

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**MOLYKOTE(R) METALFORM****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., **R37** Irritating to respiratory system., **R50** Very toxic to aquatic organisms., **R65** Harmful: May cause lung damage if swallowed.