

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

Version: 2.0

Revision Date: 14.05.2009

## **MOLYKOTE(R) 7405 ANTI-FRICTION COATING**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Trade name : MOLYKOTE(R) 7405 ANTI-FRICTION COATING

**Company** : Dow Corning Europe S.A.

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Tel: +44 1446732350 Tel: +49 61122158

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Dow Corning (Seneffe 24h) Tel: +32 64 888240

E-mail address (Safety Data

Sheet)

Use of the

sdseu@dowcorning.com

substance/preparation

Lubricants and additives

### 2. HAZARDS IDENTIFICATION

### The principal hazards of the product as supplied are:

Flammable.

Harmful by inhalation and in contact with skin. 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: Organic compound in solvent

**Hazardous Ingredients:** 

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification	
N-Methyl-2-pyrrolidone	872-50-4	212-828-1	<=60.0	Xi T, Repr. Cat. 2	R36/37/38 R61
Xylene	1330-20-7	215-535-7	<=16.0	Xn Xi	R20/21 R38 R10
Ethylbenzene	100-41-4	202-849-4	<=5.0	Xn F	R20 R11



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Polyethylene 9002-88-4 Exempt or not 4.0

available

4. FIRST AID MEASURES

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

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 (CO2), 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. Nitrogen 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. 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

**Advice on safe handling** : Do not breathe vapour. General ventilation is required. Local ventilation is required.

Avoid skin and eye contact. Do not breathe spray or mist. Do not ingest.

Advice on storage : 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. Keep in a cool place. Vapours may form explosive mixtures with air.

**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
N-Methyl-2-pyrrolidone	872-50-4	25 ppm TWA 75 ppm STEL 103 mg/m3 TWA 309 mg/m3 STEL
Xylene	1330-20-7	150 ppm STEL 100 ppm TWA 662 mg/m3 STEL 441 mg/m3 TWA
Ethylbenzene	100-41-4	125 ppm STEL 100 ppm TWA 552 mg/m3 STEL 441 mg/m3 TWA
Polyethylene	9002-88-4	4 mg/m3 TWA Respirable dust 10 mg/m3 TWA Inhalable dust

#### 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) 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. Remove contaminated clothing immediately.

**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: Straw Odour: Characteristic odour

Important health, safety and environmental information

**Boiling point/range** : 40 °C

**Flash point** : 41 °C (Tag Closed Cup)

**Explosive properties** : No

Vapours may form explosive mixtures with air.

**Specific Gravity** : 1.035

Viscosity : 3000 cSt 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



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**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. Nitrogen products.

### 11. TOXICOLOGICAL INFORMATION

On contact with eyes : Irritating.

On skin contact : Harmful in contact with skin. Irritating. May cause harm to the unborn child. Repeated

or prolonged contact may cause defatting of the skin, leading to dermatitis.

**If inhaled** : Harmful by inhalation of vapour. 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.

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.

### 12. ECOLOGICAL INFORMATION

### **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.

Based on product test data.

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



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### 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 1993

**Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Xylene / Ethylbenzene)

**Class** : 3

Packing group : III

Labels : 3

Sea transport (IMDG)

UN No. : UN 1993

**Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Xylene / Ethylbenzene)

**Class** : 3

Packing group : III

**Emergency Schedule** : F-E

(EmS) S-E

Labels : flammable liquid

Air transport (IATA)

**UN No.** : UN 1993

 $\begin{array}{lll} \textbf{Proper Shipping Name} & : & \text{Flammable liquid, n.o.s.} (Xylene \ / \ Ethylbenzene) \end{array}$ 

**Class** : 3

Packing group : III

Labels : Flammable Liquid



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15. REGULATORY INFORMATION

Labelling according to EEC Directive

**Contains** : N-Methyl-2-pyrrolidone

: Xylene

Symbols : T Toxic.

**R-phrases** : R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin. R36/37/38 Irritating to eyes, respiratory system and skin.

R61 May cause harm to the unborn child.

**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.

S36/37 Wear suitable protective clothing and gloves.

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** 

AICS : 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.

**KECL** : One or more ingredients are not listed or exempt or identified.

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



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#### 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 amendements, 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., R20/21 Harmful by inhalation and in contact with skin., R36/37/38 Irritating to eyes, respiratory system and skin., R38 Irritating to skin., R61 May cause harm to the unborn child.