

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

Version: 2.7

Revision Date: 13.05.2009

MOLYKOTE(R) 106 ANTI-FRICTION COATING

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

MOLYKOTE(R) 106 ANTI-FRICTION COATING Trade name

Company Dow Corning Europe S.A.

rue Jules Bordet - Parc Industriel - Zone C

B-7180 Seneffe

Belgium

Dow Corning Central Europe Tel: +49 6112371 Service

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 Tel: +49 61122158

Dow Corning (Wiesbaden 24h) Dow Corning (Seneffe 24h)

Tel: +32 64 888240

E-mail address (Safety Data

Sheet)

Use of the

sdseu@dowcorning.com Lubricants and additives

substance/preparation

2. HAZARDS IDENTIFICATION

The principal hazards of the product as supplied are:

Flammable.

Harmful by inhalation and in contact with skin.

Causes burns.

Vapours may form explosive mixtures with air.

This information is based on product test data.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Inorganic and organic compounds dispersion

Hazardous Ingredients:

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification	
Xylene	1330-20-7	215-535-7	20.0	Xn Xi	R20/21 R38 R10
Butan-1-ol	71-36-3	200-751-6	20.0	Xn Xi	R10 R22 R37/38



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

Version: 2.7

Revision Date: 13.05.2009

MOLYKOTE(R) 106 ANTI-FRICTION COATING

					R41 R67
2-Methoxy-1-methylethyl acetate	108-65-6	203-603-9	19.0		R10
Molybdenum sulfide	1317-33-5	215-263-9	18.0		
Ethylbenzene	100-41-4	202-849-4	2.0	Xn F	R20 R11
Methanol	67-56-1	200-659-6	0.1	F T	R11 R39/23/24/25 R23/24/25

4. FIRST AID MEASURES

On contact with eyes : Rinse immediately with plenty of water and seek medical advice.

On skin contact : Rinse immediately with plenty of water for at least 15 minutes. 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: Carbon oxides and traces of incompletely burned

carbon compounds. Formaldehyde. Sulphur products. Chlorine compounds. Nitrogen

products.



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

Version: 2.7

Revision Date: 13.05.2009

MOLYKOTE(R) 106 ANTI-FRICTION COATING

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear proper protective equipment.

Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or **Environmental precautions**

other appropriate barriers. Do not empty into drains.

Determine the need to evacuate or isolate the area according to your local emergency Methods for cleaning up

> 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

Do not breathe vapour. Avoid skin and eye contact. Do not breathe spray or mist. Do not Advice on safe handling

ingest. General ventilation is required. Local ventilation is required.

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.

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		
Xylene	1330-20-7	150 ppm STEL 100 ppm TWA 662 mg/m3 STEL 441 mg/m3 TWA		
Butan-1-ol	71-36-3	50 ppm STEL 154 mg/m3 STEL		
2-Methoxy-1-methylethyl acetate	108-65-6	50 ppm TWA 100 ppm STEL 274 mg/m3 TWA 548 mg/m3 STEL		
Molybdenum sulfide	1317-33-5	20 mg/m3 STEL as Mo, insoluble compounds		



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

Version: 2.7

Revision Date: 13.05.2009

MOLYKOTE(R) 106 ANTI-FRICTION COATING

10 mg/m3 STEL as Mo, soluble compounds

10 mg/m3 TWA as Mo, insoluble compounds 5 mg/m3 TWA as Mo, soluble compounds

Ethylbenzene 100-41-4 125 ppm STEL

100 ppm TWA 552 mg/m3 STEL 441 mg/m3 TWA

Methanol 67-56-1 200 ppm TWA

250 ppm STEL 266 mg/m3 TWA 333 mg/m3 STEL

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) AXBP 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 : Suitable, heavy duty, plastic or rubber gauntlets should be worn: Nitrile rubber.

Neoprene 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 : Remove contaminated clothing immediately. 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: Viscous Liquid Colour: Gray Odour: Solvent

Important health, safety and environmental information



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

Version: 2.7

Revision Date: 13.05.2009

MOLYKOTE(R) 106 ANTI-FRICTION COATING

Boiling point/range : 64.6 °C

Flash point : > 23.5 °C (Pensky-Martens Closed Cup)

Explosive properties : No

Vapours may form explosive mixtures with air.

Specific Gravity : 1.165

Viscosity : 42 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.

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. Chlorine compounds. Nitrogen

products.

11. TOXICOLOGICAL INFORMATION

On contact with eyes 1 : Corrosive - causes burns.

On skin contact 1 : Corrosive - causes burns. Harmful in contact with skin.

If inhaled : Harmful by inhalation of vapour. The vapour is irritating to the mouth, nose and throat.

May cause dizziness, drowsiness, confusion, headaches, nausea, and at high

concentrations, unconsciousness.

On ingestion ¹ : Corrosive - burns the mouth, throat and stomach.

Oral LD50 (Rat) : > 2,000 mg/kg

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.



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

Version: 2.7

Revision Date: 13.05.2009

MOLYKOTE(R) 106 ANTI-FRICTION COATING

12. ECOLOGICAL INFORMATION

Environmental fate and distribution

The organic components contained in the product are biodegradable, however they are not classified as readily 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 2924

Proper Shipping Name : FLAMMABLE LIQUID, CORROSIVE, N.O.S.(1-Butanol / Bisphenol A-epichlorohydrin

copolymer)

Class : 3(8)

Packing group : III

Labels : 3

8

Sea transport (IMDG)

UN No. : UN 2924

Proper Shipping Name : FLAMMABLE LIQUID, CORROSIVE, N.O.S.(1-Butanol / Bisphenol A-epichlorohydrin

copolymer)

Class : 3(8)



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

Version: 2.7

Revision Date: 13.05.2009

MOLYKOTE(R) 106 ANTI-FRICTION COATING

Packing group : III

Emergency Schedule

(EmS)

: F-E S-C

Labels : flammable liquid

corrosive

Air transport (IATA)

UN No. : UN 2924

Proper Shipping Name : Flammable liquid, corrosive, n.o.s.(1-Butanol / Bisphenol A-epichlorohydrin copolymer)

Class : 3(8)

Packing group : III

Labels : Flammable Liquid

Corrosive

15. REGULATORY INFORMATION

Labelling according to EEC Directive

Contains : Xylene

Symbols : C Corrosive.

R-phrases : R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

R34 Causes burns.

S-phrases : S2 Keep out of the reach of children.

S23(S) Do not breathe spray.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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.

National legislation / regulations

Ozone depleting

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

chemicals



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

Version: 2.7

Revision Date: 13.05.2009

MOLYKOTE(R) 106 ANTI-FRICTION COATING

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).

PICCS : All ingredients listed, exempt or notified.

TSCA : All chemical substances in this material are included on or exempted from listing on the

TSCA Inventory of Chemical Substances.

ENCS/ISHL: Some components are not listed or not identified on ENCS/ISHL.

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 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., R22 Harmful if swallowed., R23/24/25 Toxic by inhalation, in contact with skin and if swallowed., R37/38 Irritating to respiratory system and skin., R38 Irritating to skin., R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed., R41 Risk of serious damage to eyes., R67 Vapours may cause drowsiness and dizziness.