

**SAFETY DATA SHEET**

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

Version: 6.0  
Revision Date: 15.10.2012  
Superseded date: 27.05.2009**MOLYKOTE(R) MKL-N GREASE****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

- 1.1 Product name** : MOLYKOTE(R) MKL-N GREASE
- 1.2 Identified uses** : Lubricants and additives
- Uses advised against** : None known.
- 1.3 Company** : Dow Corning Europe S.A.  
rue Jules Bordet - Parc Industriel - Zone C  
B-7180 Seneffe  
Belgium
- E-mail address (Safety Data Sheet)** : sdseu@dowcorning.com
- Customer Service** : English Tel: +49 611237507  
Deutsch Tel: +49 611237500  
Français Tel: +32 64511149  
Italiano Tel: +32 64511170  
Español Tel: +32 64511163
- Fax: +32 64888683
- 1.4 Emergency Phone Number** : Dow Corning (Barry U.K. 24h) Tel: +44 1446732350  
Dow Corning (Wiesbaden 24h) Tel: +49 61122158  
Dow Corning (Seneffe 24h) Tel: +32 64 888240

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

According to EU Directives 67/548/EEC or 1999/45/EC:

- R10 Flammable.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

**2.2 Label elements****Labelling according to EEC Directive**

- Contains** : Naphtha (petroleum), hydrotreated heavy
- R-phrases** : R10 Flammable.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.
- S-phrases** : S2 Keep out of the reach of children.

## **SAFETY DATA SHEET**

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

Version: 6.0

Revision Date: 15.10.2012

Superseded date: 27.05.2009

### **MOLYKOTE(R) MKL-N GREASE**

S24/25 Avoid contact with skin and eyes.

S51 Use only in well-ventilated areas.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

#### **2.3 Other hazards**

Vapours may form explosive mixtures with air.

**SAFETY DATA SHEET**

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

Version: 6.0  
 Revision Date: 15.10.2012  
 Superseded date: 27.05.2009

**MOLYKOTE(R) MKL-N GREASE**

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Chemical characterization:** Mixture of inorganic and organic compounds

**According to EU Directives 67/548/EEC or 1999/45/EC:**

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Polybutene	9003-29-6	Exempt or not available	-	22.0	Substance with a Community workplace exposure limit
n-Butyl acetate	123-86-4	204-658-1	-	17.0	R10 R66 R67
2-Methoxy-1-methyleth yl acetate	108-65-6	203-603-9	-	17.0	R10
Naphtha (petroleum), hydrotreated heavy	64742-48-9	265-150-3	-	17.0	Xn R10 R65 R66 R67 R52/53
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	-	14.0	Substance with a Community workplace exposure limit
Residual oils (petroleum), solvent-dewaxed	64742-62-7	265-166-0	-	10.0	Substance with a Community workplace exposure limit
Diphenyl-(2-Ethylhexyl )-Phosphate	1241-94-7	214-987-2	-	0.98	N R50/53

**According to Regulation (EC) No. 1272/2008:**

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Polybutene	9003-29-6	Exempt or not available	-	22.0	Substance with a Community workplace exposure limit
n-Butyl acetate	123-86-4	204-658-1	-	17.0	Flammable liquid: Category 2 - H225 Specific target organ toxicity - single exposure (Inhalation - vapour): Category 3 (narcotic effects) - H336 EUH066
2-Methoxy-1-methyleth yl acetate	108-65-6	203-603-9	-	17.0	Flammable liquid: Category 3 - H226

**SAFETY DATA SHEET**

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

Version: 6.0  
 Revision Date: 15.10.2012  
 Superseded date: 27.05.2009

**MOLYKOTE(R) MKL-N GREASE**

Naphtha (petroleum), hydrotreated heavy	64742-48-9	265-150-3	-	17.0	Flammable liquid: Category 3 - H226 Specific target organ toxicity - single exposure (Inhalation - vapour): Category 3 (narcotic effects) - H336 Aspiration hazard: Category 1 - H304 Chronic aquatic hazard: Category 3 - H412 EUH066
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	-	14.0	Substance with a Community workplace exposure limit
Residual oils (petroleum), solvent-dewaxed	64742-62-7	265-166-0	-	10.0	Substance with a Community workplace exposure limit
Diphenyl-(2-Ethylhexyl)-Phosphate	1241-94-7	214-987-2	-	0.98	Acute aquatic hazard: Category 1 - H400 Chronic aquatic hazard: Category 1 - H410

For the full text of the R-phrases mentioned in this Section, see Section 16.  
 For the full text of the H-Statements mentioned in this Section, see Section 16.  
 CLP classifications are based on all current available data including from known international organizations. These classifications are subject to revision as more information becomes available.

**4. FIRST AID MEASURES**

**4.1 Description of First Aid Measures:**

- On contact with eyes** : Flush with water.
- On skin contact** : Flush with water.
- If inhaled** : Remove to fresh air. Obtain medical attention.
- On ingestion** : Do not induce vomiting. Obtain medical attention.

**4.2 Most important symptoms/effects, acute and delayed** : Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

**5. FIRE-FIGHTING MEASURES**

- 5.1 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.

**SAFETY DATA SHEET**

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

Version: 6.0  
 Revision Date: 15.10.2012  
 Superseded date: 27.05.2009

**MOLYKOTE(R) MKL-N GREASE**

- 5.2 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.
- 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. Phosphorus products. Sulphur products.
- 5.3 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.

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures** : Wear proper protective equipment.
- 6.2 Environmental precautions** : Do not empty into drains. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
- 6.3 Methods and materials for containment and 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.

**7. HANDLING AND STORAGE**

- 7.1 Advice on safe handling** : Avoid skin and eye contact. Do not ingest. Do not breathe vapour. General ventilation is required. Local ventilation is recommended. Do not breathe spray or mist. Do not empty into drains.
- 7.2 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. Storage temperature: minimum 0 °C, maximum 40 °C
- 7.3 Specific uses** : Refer to technical data sheet available on request.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

Name	CAS-No.	Exposure Limits
Polybutene	9003-29-6	10 mg/m3 STEL Oil Mist,mineral

**SAFETY DATA SHEET**

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

Version: 6.0  
 Revision Date: 15.10.2012  
 Superseded date: 27.05.2009

**MOLYKOTE(R) MKL-N GREASE**

		5 mg/m3 TWA Oil Mist,mineral
n-Butyl acetate	123-86-4	150 ppm TWA 200 ppm STEL 724 mg/m3 TWA 966 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
Naphtha (petroleum), hydrotreated heavy	64742-48-9	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
Residual oils (petroleum), solvent-dewaxed	64742-62-7	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral

**8.2 Exposure controls**

**Engineering Controls** : Ventilation : Refer to Section 7.1

**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). Silver shield(TM). 4H(TM). Viton(TM). Regarding glove's breakthrough time,contact your chemical protective glove supplier.

**Eye/face protection** : Safety goggles should be worn.

**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.

**Additional information** : These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

**SAFETY DATA SHEET**

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

Version: 6.0  
Revision Date: 15.10.2012  
Superseded date: 27.05.2009**MOLYKOTE(R) MKL-N GREASE**

**Environmental exposure controls** : Refer to section 6 and 12.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form** : Liquid

**Colour** : Black

**Odour** : Ester-like odour

**Boiling point/range** : > 100 °C

**Flash point** : 22.5 °C (Tag Closed Cup)

**Explosive properties** : No  
Vapours may form explosive mixtures with air.

**Specific Gravity** : 0.87

**Viscosity** : 4000 mm<sup>2</sup>/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**

**10.1 Reactivity** : None known.

**10.2 Stability** : Stable under normal usage conditions.

**10.3 Possibility of hazardous reactions** : None known.

**10.4 Conditions to avoid** : Eliminate all possible sources of ignition.

**10.5 Materials to avoid** : Can react with strong oxidising agents.

**10.6 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. Phosphorus products. Sulphur products.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity:**

**On contact with eyes** : Slightly irritating.

**SAFETY DATA SHEET**

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

Version: 6.0

Revision Date: 15.10.2012

Superseded date: 27.05.2009

**MOLYKOTE(R) MKL-N GREASE**

- On skin contact** : No adverse effects are normally expected.
- If inhaled** : Single exposure may cause transient drowsiness and dizziness.
- On ingestion** : Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.

**Chronic toxicity:**

- 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** : Repeated swallowing may cause systemic adverse effects.

**Toxicokinetics, metabolism and distribution** : No specific information is available.

**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****12.1 Ecotoxicity effects**

Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

**12.2 Persistence and degradability**

Organic solvents may evaporate into the atmosphere, where they degrade. The mineral oils in the product are biodegradable.

**12.3 Bioaccumulation**

Low potential to bioaccumulate.

**12.4 Release to waters / Mobility in soil****Fate and effects in waste water treatment plants:**

May cause adverse effects on bacteria. If used as intended this product is not expected to reach waste water treatment plants.

**SAFETY DATA SHEET**

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

Version: 6.0  
Revision Date: 15.10.2012  
Superseded date: 27.05.2009**MOLYKOTE(R) MKL-N GREASE****13. DISPOSAL CONSIDERATIONS**

**Product and packaging 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.

**14. TRANSPORT INFORMATION****Road / Rail (ADR/RID)**

**UN No.** : UN 1993  
**Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Butyl Acetate / Naphtha)  
**Class** : 3  
**Packing group** : II  
**Labels** : 3

**Sea transport (IMDG)**

**UN No.** : UN 1993  
**Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Butyl Acetate / Naphtha)  
**Class** : 3  
**Packing group** : II  
**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.(Butyl Acetate / Naphtha)  
**Class** : 3  
**Packing group** : II  
**Labels** : Flammable Liquid

**SAFETY DATA SHEET**

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

Version: 6.0

Revision Date: 15.10.2012

Superseded date: 27.05.2009

**MOLYKOTE(R) MKL-N GREASE****15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Status**

<b>EINECS</b>	:	All ingredients listed, exempt or notified (ELINCS).
<b>AICS</b>	:	All ingredients listed, exempt or notified.
<b>IECSC</b>	:	All ingredients listed or exempt.
<b>DSL</b>	:	All ingredients listed or exempt.
<b>ENCS/ISHL</b>	:	Some components are not listed or not identified on ENCS/ISHL.
<b>KECL</b>	:	One or more ingredients are not listed or exempt or identified.
<b>PICCS</b>	:	One or more ingredients are not listed or exempt.

**SAFETY DATA SHEET**

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

Version: 6.0

Revision Date: 15.10.2012

Superseded date: 27.05.2009

**MOLYKOTE(R) MKL-N GREASE****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.

Source of information: Internal data and publically available information

**R10** Flammable., **R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment., **R52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment., **R65** Harmful: May cause lung damage if swallowed., **R66** Repeated exposure may cause skin dryness or cracking., **R67** Vapours may cause drowsiness and dizziness.

**H225** Highly flammable liquid and vapour., **H226** Flammable liquid and vapour., **H304** May be fatal if swallowed and enters airways., **H336** May cause drowsiness or dizziness., **H400** Very toxic to aquatic life., **H410** Very toxic to aquatic life with long lasting effects., **H412** Harmful to aquatic life with long lasting effects.