

SAFETY DATA SHEET

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

Version: 2.0
Revision Date: 21.02.2011
Superseded date: 03.07.2007**MOLYKOTE(R) TP-42 PASTE****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

- 1.1 Product name** : MOLYKOTE(R) TP-42 PASTE
- 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
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- 1.4 Emergency Phone Number** : Dow Corning (Barry U.K. 24h) Tel: +44 1446732350
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2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****According to EU Directives 67/548/EEC or 1999/45/EC:**

Not hazardous.
This information is based on product test data.

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

S-phrases : S24/25 Avoid contact with skin and eyes.
S51 Use only in well-ventilated areas.

This information is based on product test data.

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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
Calcium dihydroxide	1305-62-0	215-137-3	-	36.0	Xi R38 R41
White mineral oil (petroleum)	8042-47-5	232-455-8	-	26.0	Substance with a Community workplace exposure limit
Distillates (petroleum), solvent refined heavy naphthenic	64741-96-4	265-097-6	-	12.0	Substance with a Community workplace exposure limit
Polybutene	9003-29-6	Exempt or not available	-	10.0	Substance with a Community workplace exposure limit
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7	-	2.3	Substance with a Community workplace exposure limit

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Calcium dihydroxide	1305-62-0	215-137-3	-	36.0	Skin corrosion/irritation: Category 2 - H315 Serious eye damage/eye irritation: Category 1 - H318
White mineral oil (petroleum)	8042-47-5	232-455-8	-	26.0	Substance with a Community workplace exposure limit
Distillates (petroleum), solvent refined heavy naphthenic	64741-96-4	265-097-6	-	12.0	Substance with a Community workplace exposure limit
Polybutene	9003-29-6	Exempt or not available	-	10.0	Substance with a Community workplace exposure limit
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7	-	2.3	Substance with a Community workplace exposure limit

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.

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- On contact with eyes** : Flush with water.
- On skin contact** : Flush with water.
- If inhaled** : No first aid should be needed.
- On ingestion** : Do not induce vomiting. Obtain medical attention.

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.
- 5.2 Hazards during fire fighting** : None known.
- 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.
- 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 allow large quantities to enter drains or surface waters.
- 6.3 Methods and materials for containment and cleaning up** : Scrape up and place in a container fitted with a lid. The spilled product produces an extremely slippery surface.

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7. HANDLING AND STORAGE

- 7.1 Advice on safe handling** : General ventilation is recommended. Do not breathe spray or mist. Avoid skin and eye contact. Do not empty into drains.
- 7.2 Advice on storage** : Do not store with oxidizing agents.
- 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
White mineral oil (petroleum)	8042-47-5	10 mg/m ³ STEL Oil Mist,mineral 5 mg/m ³ TWA Oil Mist,mineral
Distillates (petroleum), solvent refined heavy naphthenic	64741-96-4	10 mg/m ³ STEL Oil Mist,mineral 5 mg/m ³ TWA Oil Mist,mineral
Polybutene	9003-29-6	10 mg/m ³ STEL Oil Mist,mineral 5 mg/m ³ TWA Oil Mist,mineral
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	10 mg/m ³ STEL Oil Mist,mineral 5 mg/m ³ TWA Oil Mist,mineral

8.2 Exposure controls

Engineering Controls : Ventilation : Refer to Section 7.1

Personal protection equipment

Respiratory protection : 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) P 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 where repeated or prolonged contact can occur: Silver shield(TM). 4H(TM). Polyvinyl alcohol(PVA). Regarding glove's breakthrough time,contact your chemical protective glove supplier.

Eye/face protection : Safety goggles should be worn.

Skin protection : Protective equipment is not normally necessary.

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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.
<u>Environmental exposure controls</u>	:	Refer to section 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Paste
Colour	:	White
Odour	:	None
Flash point	:	160 °C (Closed Cup)
Explosive properties	:	No
Specific Gravity	:	1.1
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	:	None established.
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.

11. TOXICOLOGICAL INFORMATION**Acute toxicity:**

On contact with eyes	:	Slightly irritating. ⁽¹⁾
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- On skin contact** : Slightly irritating. ⁽¹⁾
- If inhaled** : No adverse effects are normally expected.
- On ingestion** : Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia.

Chronic toxicity:

- On skin contact** : Can irritate on prolonged or repeated contact. ⁽¹⁾
- If inhaled** : No adverse effects are normally expected.
- On ingestion** : Repeated swallowing may cause gastrointestinal irritation and disturbance.

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

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.

¹ Based on product test data.

² Based on test data from similar products.

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity effects**

No adverse effects on aquatic organisms are predicted.

12.2 Persistence and degradability

Solid material, insoluble in water. No adverse effects are predicted.

12.3 Bioaccumulation

No bioaccumulation potential.

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

No adverse effects on bacteria are predicted.

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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)**

Not subject to ADR/RID.

Sea transport (IMDG)

Not subject to IMDG code.

Air transport (IATA)

Not subject to IATA regulations.

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Status**

AICS : All ingredients listed, exempt or notified.

IECSC : All ingredients listed or exempt.

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

KECL : All ingredients listed, exempt or notified.

PICCS : All ingredients listed, exempt or notified.

DSL : Consult your local Dow Corning office.

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

TSCA : Clearance for manufacture, import, processing, or use of this product under the United States Toxic Substances Control Act (TSCA) is based on a low volume exemption (LVE) from the Inventory listing requirements of TSCA (40 CFR 723.50(c) (1)). Dow Corning Corporation, who was the submitter of the LVE to the U.S. Environmental Protection Agency, is the only entity authorized to import into the United States any product which contains this LVE substance. For activities regulated by TSCA, conditions identified in the LVE notification for use, exposure controls, and environmental release controls must be adhered to by downstream users. For information on specific binding conditions for activities regulated by TSCA, please refer to Dow Corning's U.S. Material Safety Data Sheet for this product.

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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

R36/38 Irritating to eyes and skin.,

R38 Irritating to skin., **R41** Risk of serious damage to eyes.

H315 Causes skin irritation., **H318** Causes serious eye damage.