

SAFETY DATA SHEET

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

Version: 3.0

Revision Date: 21.03.2013

Superseded date: 03.12.2009

MOLYKOTE(R) G-0050 FG WHITE EP BEARING GREASE**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY****1.1 Product name** : MOLYKOTE(R) G-0050 FG WHITE EP BEARING 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:

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements**Labelling according to EEC Directive****Symbols** : N Dangerous for the environment.**R-phrases** : R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**S-phrases** : S57 Use appropriate container to avoid environmental contamination.
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
S23(V) Do not breathe vapour.
S51 Use only in well-ventilated areas.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Organic grease

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
White mineral oil (petroleum)	8042-47-5	232-455-8	01-21194870 78-27	78.0	Substance with a Community workplace exposure limit
Zinc oxide	1314-13-2	215-222-5	01-21194638 81-32	5.0	N R50/53
Benzenepropanoic Acid, 3,5-Bis(1,1-Dimethylethyl)-4-Hydroxy-, Thiodi-2,1-ethanediyl Ester	41484-35-9	255-392-8	-	0.25	N R51/53

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
White mineral oil (petroleum)	8042-47-5	232-455-8	01-21194870 78-27	78.0	Substance with a Community workplace exposure limit
Zinc oxide	1314-13-2	215-222-5	01-21194638 81-32	5.0	Acute aquatic hazard: Category 1 - H400 Chronic aquatic hazard: Category 1 - H410
Benzenepropanoic Acid, 3,5-Bis(1,1-Dimethylethyl)-4-Hydroxy-, Thiodi-2,1-ethanediyl Ester	41484-35-9	255-392-8	-	0.25	Chronic aquatic hazard: Category 2 - H411

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 : No first aid should be needed.

On skin contact : No first aid should be needed.

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- If inhaled** : Remove to fresh air.
- On ingestion** : No first aid should be needed.

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.
- 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** : 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** : Scrape up and place in a container fitted with a lid. The spilled product produces an extremely slippery surface.

7. HANDLING AND STORAGE

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

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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

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) BP 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 : Gloves are not normally required.

Eye/face protection : Safety glasses should be worn.

Skin protection : Protective equipment is not normally necessary.

Hygiene measures : Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Environmental exposure controls : Refer to section 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Grease
Colour	: White
Odour	: Slight
Flash point	: 215 °C (Closed Cup)
Explosive properties	: No

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MOLYKOTE(R) G-0050 FG WHITE EP BEARING GREASE**Specific Gravity** : 0.89**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.**11. TOXICOLOGICAL INFORMATION****Acute toxicity:****On contact with eyes** : May cause temporary discomfort.**On skin contact** : No adverse effects are normally expected.**If inhaled** : No adverse effects are normally expected.**On ingestion** : No adverse effects are normally expected.**Chronic toxicity:****On skin contact** : No adverse effects are normally expected.**If inhaled** : No adverse effects are normally expected.**On ingestion** : No adverse effects are normally expected.**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.

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- ¹ Based on product test data.
² Based on test data from similar products.

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity effects**

Toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. However, due to the physical form and water-insolubility of the product the bioavailability is negligible.

12.2 Persistence and degradability

Solid material, insoluble in water.

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.

13. DISPOSAL CONSIDERATIONS

Product and packaging disposal : This material must be disposed of as hazardous waste. 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 3077

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Zinc Oxide)

Class : 9

Packing group : III

Labels : 9

Sea transport (IMDG)

UN No. : UN 3077

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MOLYKOTE(R) G-0050 FG WHITE EP BEARING GREASE**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Zinc Oxide)**Class** : 9**Packing group** : III**Emergency Schedule (EmS)** : F-A
S-F**Marine pollutant** : Zinc Oxide**Labels** : miscellaneous**Air transport (IATA)****UN No.** : UN 3077**Proper Shipping Name** : Environmentally hazardous substance, solid, n.o.s.(Zinc Oxide)**Class** : 9**Packing group** : III**Labels** : Miscellaneous dangerous goods

: Apply Gross Wt Supplemental Label to Outer Package if shipping Limited Quantity

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Status****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.**IECSC** : All ingredients listed or exempt.**ENCS/ISHL** : All ingredients listed, exempt or notified.**KECL** : One or more ingredients are not listed or exempt or identified.**DSL** : All ingredients listed or exempt.

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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

H400 Very toxic to aquatic life., **H410** Very toxic to aquatic life with long lasting effects., **H411** Toxic to aquatic life with long lasting effects.