DOW CORNING

SAFETY DATA SHEET

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

Version: 2.1 Revision Date: 15.05.2012 Superseded date: 04.05.2011

MOLYKOTE(R) G-4500 MULTI-PURPOSE SYNTHETIC GREASE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY : MOLYKOTE(R) G-4500 MULTI-PURPOSE SYNTHETIC GREASE 1.1 Product name 1.2 Identified uses Lubricants and additives : : None known. Uses advised against Dow Corning Europe S.A. 1.3 Company · rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Belgium E-mail address (Safety sdseu@dowcorning.com : **Data Sheet**) **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 Dow Corning (Barry U.K. 24h) Tel: +44 1446732350 : Number Dow Corning (Wiesbaden 24h) Tel: +49 61122158 Tel: +32 64 888240 Dow Corning (Seneffe 24h)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Not hazardous.

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.



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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	
Dec-1-ene, homopolymer, hydrogenated	68037-01-4	Exempt or not available	01-21194864 52-34	67.0	Xn	R65
Polybutene	9003-29-6	Exempt or not available	-	11.0	Substance with exposure limit	a Community workplace
White mineral oil (petroleum)	8042-47-5	232-455-8	-	2.9	Substance with exposure limit	a Community workplace

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Dec-1-ene, homopolymer, hydrogenated	68037-01-4	Exempt or not available	01-21194864 e 52-34	67.0	Aspiration hazard: Category 1 - H304
Polybutene	9003-29-6	Exempt or not available	-	11.0	Substance with a Community workplace exposure limit
White mineral oil (petroleum)	8042-47-5	232-455-8	-	2.9	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.

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	:	No first aid should be needed.	
On ingestion	:	Do not induce vomiting. Obtain medical attention.	

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5. FI	RE-FIGHTING MEASUR	ES	
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. Sulphur products. Nitrogen products. Traces of fluorinated products. 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. A	CCIDENTAL RELEASE M	EA	SURES
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.

7. HANDLING AND STORAGE			
7.1 Advice on safe handling	:	General ventilation is recommended. Avoid skin and eye contact. Do not breathe spray or mist. Do not empty into drains.	
7.2 Advice on storage	:	Do not store with oxidizing agents. Storage temperature: minimum 0 °C, maximum 35 °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
Dec-1-ene, homopolymer, hydrogenated	68037-01-4	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
Polybutene	9003-29-6	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
White mineral oil (petroleum)	8042-47-5	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
8.2 Exposure controls		
Engineering Controls	: Ventilation	n : Refer to Section 7.1
Personal protection equipmen	<u>nt</u>	
Respiratory protection	aerosol or Depending self-contai The choice	respirator must be worn if the product is used in any circumstances where an mist may be generated, such as during spraying or similar activities. g on the working conditions, wear a respiratory mask with filter(s) P or use a ned respirator. e of a filter type depends on the amount and type of chemical being handled in ace. Regarding filter characteristics, contact your respiratory protection
Hand protection	occur: Sil	protective gloves should be worn where repeated or prolonged contact can ver shield(TM). 4H(TM). Regarding glove's breakthrough time, contact your rotective glove supplier.
Eye/face protection	: Safety gog	gles should be worn.
Skin protection	: Wear impe	ervious overalls in circumstances where significant skin contact can occur.
Hygiene measures	: Exercise g drinking of	ood industrial hygiene practice. Wash after handling, especially before eating, r smoking.
Additional information		autions are for room temperature handling. Use at elevated temperature or ray applications may require added precautions.
<u>Environmental exposure</u> <u>controls</u>	: Refer to se	ction 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

: Grease



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Colour	:	Off-White
Odour	:	None
Explosive properties	:	No
Specific Gravity	:	0.83
Water solubility	:	0 g/l 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	:	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. Sulphur products. Nitrogen products. Traces of fluorinated products. Phosphorus products.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:		
On contact with eyes	:	Slightly irritating.
On skin contact	:	Slightly irritating.
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 skin contact.
If inhaled	:	No adverse effects are normally expected.



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On ingestion

- : Repeated swallowing may cause gastrointestinal irritation and disturbance.
- <u>Toxicokinetics, metabolism</u> : No specific information is available. <u>and distribution</u>
- 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.

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)

Not subject to ADR/RID.

Sea transport (IMDG)

Not subject to IMDG code.

Air transport (IATA)

Not subject to IATA regulations.

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15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
<u>Status</u>				
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.		
AICS	:	All ingredients listed, exempt or notified.		
IECSC	:	All ingredients listed or exempt.		
ENCS/ISHL	:	All ingredients listed, exempt or notified.		
DSL	:	All ingredients listed or exempt.		
KECL	:	One or more ingredients are not listed or exempt or identified.		
PICCS	:	One or more ingredients are not 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.

Source of information: Internal data and publically available information

R65 Harmful: May cause lung damage if swallowed.,

H304 May be fatal if swallowed and enters airways.,