

PRODUCT SAFETY DATA SHEET

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

Version: 2.0

Revision Date: 05.11.2007

MOLYKOTE(R) S-1504 HIGH TEMPERATURE HIGH VISCOSITY CHAIN OIL

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade name	:	MOLYKOTE(R) S-1504 HIGH TEMPERATURE HIGH VISCOSITY CHAIN OIL
Company	:	Dow Corning S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Belgium
Service	:	Dow Corning Central Europe Tel: +49 6112371 Dow Corning Northern Europe Fax: +49 611237609 Dow Corning Southern Europe Tel: +44 1676528000 Dow Corning Southern Europe Fax: +44 1676528001 Dow Corning Southern Europe Tel: +33 472841360 Dow Corning Southern Europe Fax: +33 472841379
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
E-mail address (Safety Data Sheet)	:	sdseu@dowcorning.com
Use of the substance/preparation	:	Lubricants and additives

2. HAZARDS IDENTIFICATION

The principal hazards of the product as supplied are:

Repeated exposure may cause skin dryness or cracking.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Organic compound.

Hazardous Ingredients:

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	50.0	Xn R65 R66
Polybutene	9003-29-6	Exempt or not available	20.0	
Zinc (C1-C14) Dialkyldithiophosphate	68649-42-3	272-028-3	0.86	Xi N R41 R51/53

4. FIRST AID MEASURES

On contact with eyes : Flush with water.

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On skin contact	:	Flush with water.
If inhaled	:	Remove to fresh air.
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 (CO ₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
Unsuitable extinguishing media	:	None known.
Hazards during fire fighting	:	None known.
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. Phosphorus products. Nitrogen products.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Wear proper protective equipment.
Precautions to protect the environment	:	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Do not empty into drains.
Methods for cleaning up	:	Determine the need to evacuate or isolate the area according to your local emergency plan. 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

Advice on safe handling	:	General ventilation is required. Local ventilation is recommended. Avoid skin and eye contact. Do not breathe spray or mist.
Advice on storage	:	Do not store with oxidizing agents.
Specific uses	:	Refer to technical data sheet available on request.

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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
Polybutene	9003-29-6	10 mg/m ³ STEL Oil Mist,mineral 5 mg/m ³ TWA Oil Mist,mineral

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: Polyvinyl alcohol(PVA). Nitrile rubber. Silver shield(TM). 4H(TM). Viton(TM). Regarding glove's breakthrough time...,contact your chemical protective glove supplier.

Eye 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.

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. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these types of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Liquid **Colour:** Yellow **Odour:** Not available

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Important health, safety and environmental information

Boiling point/range	:	> 35 °C
Flash point	:	260 °C (Closed Cup)
Explosive properties	:	No
Specific Gravity	:	0.835
Viscosity	:	42 cSt 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. Phosphorus products. Nitrogen products.

11. TOXICOLOGICAL INFORMATION

On contact with eyes	:	Slightly irritating.
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	:	Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.
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.

¹ Based on product test data.

² Based on test data from similar products.

12. ECOLOGICAL INFORMATION

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

Ecotoxicity effects

No adverse effects on aquatic organisms are predicted.

Bioaccumulation : No specific information is available.

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)**

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

Labelling according to EEC Directive**R-phrases** : R66 Repeated exposure may cause skin dryness or cracking.**S-phrases** : S2 Keep out of the reach of children.
S23(S) Do not breathe spray.
S24/25 Avoid contact with skin and eyes.National legislation / regulations**Ozone depleting chemicals** : No ozone depleting chemicals are present or used in manufacture.Status**AICS** : All ingredients listed, exempt or notified.**IECSC** : All ingredients listed or exempt.**EINECS** : All ingredients listed, exempt or notified (ELINCS).**PICCS** : All ingredients listed, exempt or notified.

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.

R41 Risk of serious damage to eyes., **R51/53** Toxic 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.