

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

Version: 2.0

Revision Date: 18.01.2013 Superseded date: 27.09.2007

# MOLYKOTE(R) S-1503 HIGH TEMPERATURE MEDIUM VISCOSITY CHAIN OIL

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product name : MOLYKOTE(R) S-1503 HIGH TEMPERATURE MEDIUM VISCOSITY CHAIN OIL

**1.2 Identified uses** : Lubricants and additives

**Uses advised against** : None known.

**1.3 Company** : Dow Corning Europe S.A.

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Data Sheet)

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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.

2.2 Label elements

**Labelling according to EEC Directive** 

**S-phrases** : S25 Avoid contact with eyes.



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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Organic compound.

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification	
Zinc (C1-C14) Dialkyldithiophosphate	68649-42-3	272-028-3	-	1.7	Xi N	R41 R51/53
N-Phenyl-1,1,3,3-tetram ethylbutylnaphthalen-1-amine	68259-36-9	269-527-3	-	1.0		R52/53

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Zinc (C1-C14) Dialkyldithiophosphate	68649-42-3	272-028-3	-	1.7	Serious eye damage/eye irritation: Category 1 - H318 Chronic aquatic hazard: Category 2 - H411
N-Phenyl-1,1,3,3-tetram ethylbutylnaphthalen-1-amine	68259-36-9	269-527-3	-	1.0	Chronic aquatic hazard: Category 3 - H412

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. If eye irritation persists, get medical attention.

On skin contact : Flush with water.

**If inhaled** : No first aid should be needed.

On ingestion : No first aid should be needed.



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#### 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. Sulphur products. Phosphorus products. Nitrogen

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

Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or

other appropriate barriers. Do not empty into drains.

**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. 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** : General ventilation is recommended. Avoid eye contact. Do not breathe spray or mist.

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.



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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Name CAS-No. Exposure Limits

N-Phenyl-1,1,3,3-tetramethylbu 68259-36-9 4 r

tylnaphthalen-1-amine

4 mg/m3 TWA Respirable dust 10 mg/m3 TWA Inhalable dust

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** : Gloves are not normally required.

**Eye/face protection** : Safety goggles 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.

**Additional information**: These precautions are for room temperature handling. Use at elevated temperature or

aerosol/spray applications may require added precautions. 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.

**Environmental exposure** 

controls

Refer to section 6 and 12.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

Colour : Light blue

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Odour : Not available

**Boiling point/range** : > 35 °C

Flash point : 240 °C (Closed Cup)

**Explosive properties** : No

**Specific Gravity** : 0.97

Viscosity : 16.5 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

**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. Phosphorus products. Nitrogen

products.

#### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity:**

On contact with eyes : Slightly irritating.

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.



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**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.

Product may emit formaldehyde vapour at temperatures above  $150^{\circ}$ 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.

Based on product test data.

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

The organic components contained in the product are biodegradable, however they are not classified as readily biodegradable. Organic solvents may evaporate into the atmosphere, where they degrade.

#### 12.3 Bioaccumulation

High potential to bioaccumulate.

#### 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.



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## 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** 

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

AICS : All ingredients listed, exempt or notified.

**IECSC** : All ingredients listed or exempt.

PICCS : All ingredients listed, exempt or notified.



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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

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

**H318** Causes serious eye damage., **H411** Toxic to aquatic life with long lasting effects., **H412** Harmful to aquatic life with long lasting effects.