



### 1. Identification of substance/mixture and of the company/undertaking.

Product identifier:  
Trade name: Eni LHM Super - DE  
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available  
Application of the substance/ the preparation: Special hydraulic oil  
Details of the supplier of the safety data sheet:  
Manufacturer/Supplier: Eni Schmiertechnik GmbH  
Address and telephone number: Paradiesstr. 14, 97080 Würzburg  
Tel. (+ 49) 931 - 900 98-0 Fax (+ 49) 931-98442  
Support: Technical Department, Tel. (+49) 931 900 98-145  
[technik.wuerzburg@agip.de](mailto:technik.wuerzburg@agip.de)  
[www.enischmiertechnik-datenblaetter.de](http://www.enischmiertechnik-datenblaetter.de)

### 2. Hazards identification.

Classification of the substance or mixture:

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).  
Classification according to Regulation (EC) no. 1272/2008 as amended.

Health Hazards  
Aspiration Hazard Category 1 H304: May be fatal if swallowed and enters airways.  
Environmental Hazards  
Chronic hazards to the aquatic environment Category 3 H412: Harmful to aquatic life with long lasting effects.  
Hazard summary  
Physical Hazards: No data available.  
Health Hazards  
Ingestion: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

#### 2.2 Label Elements

Contains: Base oil, low viscous



Signal Words: Danger  
Hazard Statement(s): H304: May be fatal if swallowed and enters airways.  
H412: Harmful to aquatic life with long lasting effects.  
Precautionary Statement  
Prevention: P273: Avoid release to the environment.  
Response: P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...  
P331: Do NOT induce vomiting.  
Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.  
Supplemental label information  
EUH208: Contains alkylmethacrylate. May produce an allergic reaction.  
2.3 Other hazards  
By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.



### 3. Composition/information on ingredients.

#### 3.2 Mixtures

General information: Mixture containing severely refined base oils and additives.

Chemical name	Identifier EINECS	Concentration*	REACH Registration No.	Notes
Base oil, low viscous	276-737-9	50,00-<100,00%	01-2119474878-16	
Phenolic antioxidant	204-881-4	0,25-<1,00%	01-2119565113-46	
Ester derivative	273-066-3	0,10-<1,00%		
Alkylmethacrylate	201-297-1	0,10-<1,00%	01-2119452498-28	

\*All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#### Classification:

Chemical name	Identifier	Classification	
Base oil, low viscous	EINECS 276-737-9	CLP:	Asp. Tox. 1;H304
Phenolic antioxidant	EINECS 204-881-4	CLP:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410
Ester derivative	EINECS 273-066-3	CLP:	Repr. 2; H361, STOT RE 2; H373, Aquatic Chronic 2;H411
Alkylmethacrylate	EINECS 201-297-1	CLP:	Flam. Liq 2;H225, Skin Irrit. 2;H315, Skin Sens. 1B;H317, STOT SE 3;H335

CLP: Regulation No. 1272/2008

For the wording of the listed risk phrases refer to section 16.

### 4. First aid measures.

General: Instantly remove any clothing soiled by the product.

#### 4.1 Description of first aid measures:

Inhalation: Supply fresh air; consults doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do NOT induce vomiting.

4.2 Most important symptoms and effect, both acute and delayed: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

4.3 Indication of any immediate medical attention and special treatment needed:

Get medical attention if symptoms occur.

### 5. Firefighting measures.

Extinguishing media:

Suitable extinguishing agents: CO<sub>2</sub>, extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added.

Unsuitable extinguishing media: Water with a full water jet.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

#### 5.3 Advice for firefighters

Special firefighting procedures: Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated firefighting water in accordance with official regulations. Collect contaminated firefighting water separately. It must not enter drains.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.



### 6. Accidental release measures.

- |  |  |
|--|--|
| 6.1 Personal precautions, protective equipment and emergency procedures: | In case of spills, beware of slippery floors and surfaces.   |
| 6.2 Environmental Precautions:   | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. Do not allow to enter drainage system, surface or ground water. |
| 6.3 Methods and material for Containment and cleaning up:                | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.   |
| 6.4 Reference to other sections:   | See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.   |

### 7. Handling and storage.

- |   |   |
|---|---|
| 7.1 Precautions for safe handling:                                | Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation. |
| 7.2 Conditions for safe storage, including any incompatibilities: | Store locked up. Local regulations concerning handling and storage of water polluting products have to be followed. Do not heat up to temperatures close to the flash point.  |
| 7.3 Specific end use(s):  | Not applicable  |
| Storage Class:  | 10, Combustible liquids   |

### 8. Exposure controls/personal protection.

- 8.1 Control Parameters  
Occupational Exposure Limits:

Chemical name	Type	Exposure Limit Values		Source
Alkylmethacrylate	TWA	50 ppm	208 mg/m <sup>3</sup>	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Alkylmethacrylate	STEL	100 ppm	416 mg/m <sup>3</sup>	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

8.2 Exposure controls

Appropriate engineering controls: Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment:

General information: Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling.

Skin protection:

Hand Protection: Material: Nitrile butyl rubber (NBR).  
Min. Breakthrough time: >= 480 min  
Recommended thickness of the material: >= 0,38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. To safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.



Respiratory Protection:	Seek advice from local supervisor. Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.
Thermal hazards:	Not known.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminated. Discard contaminated footwear that cannot be cleaned.
Environmental Controls:	No data available.

## 9. Physical and chemical properties (typical values).

### 9.1 Information on basic physical and chemical properties

Appearance:

Physical state:	Liquid
Colour:	Green
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures.
pH:	Not applicable.
Freezing point:	Not applicable for mixtures.
Boiling Point:	Value not relevant for classification.
Flash Point:	125°C
Evaporation Rate:	Not applicable for mixtures.
Flammability (solid, gas):	Value not relevant for classification.
Flammability Limit – Upper (%):	Not applicable for mixtures.
Flammability Limit – Lower (%):	Not applicable for mixtures.
Vapour pressure:	Not applicable for mixtures.
Vapour density (air=1):	Not applicable for mixtures.
Density:	0,84 g/cm <sup>3</sup> (15°C)
Solubility(ies):	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures.
Auto ignition Temperature:	Value not relevant for classification.
Decomposition Temperature:	Value not relevant for classification.
Kinematic viscosity:	18,6 mm <sup>2</sup> /s (40°C)
Explosive properties:	Value not relevant for classification.
Oxidizing properties:	Value not relevant for classification.
9.2 Other information:	No data available.

## 10. Stability and reactivity.

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical stability:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous decomposition products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.



### 11. Toxicological information.

#### 11.1 Information on toxicological effects:

##### Acute toxicity:

###### Oral

Product: Not classified for acute toxicity based on available data.  
 Specified substance(s):  
 Base oil, low viscous: LD 50 (Rat): > 2.001 mg/kg  
 Phenolic antioxidant: LD 50 (Rat): 2.930 mg/kg (OECD 401)  
 Ester derivative: LD 50 (Rat): > 5.000 mg/kg

###### Dermal

Product: Not classified for acute toxicity based on available data.  
 Specified substance(s):  
 Base oil, low viscous: LD 50 (Rabbit): > 2.001 mg/kg  
 Phenolic antioxidant: LD 50 (Rat): > 5.000 mg/kg (OECD 402)  
 Ester derivative: LD 50 (Rat): > 10.000 mg/kg

###### Inhalation

Product: Not classified for acute toxicity based on available data.  
 Specified substance(s)  
 Base oil, low viscous: LC 50 (Rat, 4 h): > 5,53 mg /l  
 Dusts, mists and fumes

##### Skin Corrosion/Irritation

Product: Based on available data, the classification criteria are not met.

##### Serious Eye Damage/Eye Irritation

Product: Based on available data, the classification criteria are not met.

##### Respiratory or Skin Sensitization

Product: Skin sensitizer: Based on available data, the classification criteria are not met.  
 Respiratory sensitizer: Based on available data, the classification criteria are not met.

##### Specified substance(s)

Phenolic antioxidant: No sensitizing effect (guinea pig); OECD 406

##### Germ Cell Mutagenicity

Product: Based on available data, the classification criteria are not met..

##### Carcinogenicity

Product: Based on available data, the classification criteria are not met.

##### Reproductive toxicity

Product: Based on available data, the classification criteria are not met.

##### Specific Target Organ Toxicity – Single Exposure

Product: Based on available data, the classification criteria are not met.

##### Specific Target Organ Toxicity – Repeated Exposure

Product: Based on available data, the classification criteria are not met.

##### Aspiration Hazard

Product: May be fatal if swallowed and enters airways.

##### Other Adverse Effects:

No data available.

### 12. Ecological information.

#### 12.1 Toxicity

##### Acute toxicity

Product: Based on available data, the classification criteria are not met.

###### Fish

##### Specified substance(s)

Phenolic antioxidant: LC 50 (Fish, 96 h): > 0,57 mg/l (OECD 203)

##### Aquatic Invertebrates:

##### Specified substance(s):

Phenolic antioxidant: EC 50 (Water Flea, 48 h): > 0,17 mg/l

##### Chronic Toxicity Product:

Based on available data, the classification criteria are met.

##### Aquatic Invertebrates:

##### Specified substance(s):

Phenolic antioxidant: NOEC (water Flea, 21d): > 0,39 mg/l



Toxicity to Aquatic Plants:	
Specified substance(s):	
Phenolic antioxidant:	EC 50 (Alga, 72h): > 0,42 mg/l
12.2 Persistence and Degradability:	
Biodegradation:	
Product:	Not applicable for mixtures.
Specified substance(s):	
Phenolic antioxidant:	30 % (OECD 302C)
12.3 Bioaccumulative Potential:	
Product:	
Specified substance(s):	Not applicable for mixtures.
Phenolic antioxidant:	May be accumulated in organism.
12.4 Mobility in Soil:	
Product:	No data available.
Product:	Not applicable for mixtures.
12.5 Results of PBT and vPvB Assessment:	
Assessment:	The product does not contain any substances fulfilling the PBT/vPvB criteria.
12.6 Other Adverse Effects:	
Water Hazard Class (WGK):	Harmful to aquatic life with long lasting effects. WGK 1: slightly water-endangering.

### 13. Disposal considerations.

General information:	Dispose in accordance with all applicable regulations.
Disposal methods:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
European Waste Codes:	13 01 10* mineral based non-chlorinated hydraulic oils

### 14. Transport information.

UN number:	
ADR, IMDG, IATA:	Non-dangerous goods
UN proper shipping name:	
ADR, IMDG, IATA:	Non-dangerous goods
Transport hazard class(es):	
ADR, IMDG, IATA Class:	Non-dangerous goods
Packing group:	
ADR, IMDG, IATA:	Non-dangerous goods
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code:	
	Not applicable

### 15. Regulatory information.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU Regulations:	
Regulation (EC) No. 2037/2000	
Substances that deplete the ozone layer:	None
Regulation (EC) No. 850/2004 on persistent organic pollutants:	
	None
15.2 Chemical safety Assessment:	No Chemical Safety Assessment has been carried out.

### 16. Other information.

This information relates only to the specific product and may not be valid if the product is used in combination with any other material or in any process.

The informations in this sheet are according to our best knowledge at the date of printing.



Wording of the H-statements in section 2 and 3:

H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.

Other information: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Changes: 2 - 16