



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024

Version: 16.0

Replaces version: 15.3

Language: en-DE

Date of print: 4.4.2024

Page: 1 of 11

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: Eni LHM SUPER-DE

UFI: D520-U02H-A008-C4QH

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Lubricant.

### 1.3 Details of the supplier of the safety data sheet

Company name: Enilive Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: 97080 Würzburg

Germany

E-mail: info.wuerzburg@enilive.com

Telephone: +49 (0)931-90098-0

Telefax: +49 (0)931-98442

Department responsible for information:

Application Engineering & Product Management (AEPM)

Telephone: +49 (0)931-90098-0

E-mail: technik.wuerzburg@enilive.com

### 1.4 Emergency telephone number

**GIZ-Nord, Göttingen**

**Telephone: +49 (0)551-19240**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (CLP)



Signal word: **Danger**

Hazard statements: H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024  
Version: 16.0  
Replaces version: 15.3  
Language: en-DE  
Date of print: 4.4.2024

Page: 2 of 11

### Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

### Special labelling

Text for labelling: Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified, Diphenyl tolyl phosphate

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

The product does not contain any substances classified as PBT or vPvB.

CAS No.	Designation	PBT/vPvB	ED Human	ED Environment
128-37-0	3,5-Di-tert-butyl-4-hydroxytoluene		List II	

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: A mixture of base oils and additives.

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119474878-16-xxxx EC No. 276-737-9 CAS 72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified Asp. Tox. 1; H304.	50 - 100 %
REACH 01-2119565113-46-xxxx EC No. 204-881-4 CAS 128-37-0	3,5-Di-tert-butyl-4-hydroxytoluene Aquatic Acute 1; H400. Aquatic Chronic 1; H410.	0,25 - 1 %
REACH 01-2119511174-52-xxxx list no. 945-730-9 CAS 26444-49-5	Diphenyl tolyl phosphate Aquatic Acute 1; H400. Aquatic Chronic 3; H412.	0,1 - 1 %

Full text of H- and EUH-statements: see section 16.

Additional information: The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024

Version: 16.0

Replaces version: 15.3

Language: en-DE

Date of print: 4.4.2024

Page: 3 of 11

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information:	In all cases of doubt, or when symptoms persist, seek medical advice. If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.
In case of inhalation:	Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
After swallowing:	Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention. Observe risk of aspiration if vomiting occurs.

### 4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur:  
May be fatal if swallowed and enters airways.

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

First Aid, decontamination, treatment of symptoms.  
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, extinguishing powder and Carbon dioxide.  
In case of major fire and large quantities: Alcohol resistant foam.

Extinguishing media which must not be used for safety reasons:

Full water jet.

### 5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: traces of incompletely burned carbon compounds, Carbon dioxide, Carbon monoxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Use fine water spray to cool endangered containers.  
Do not allow water used to extinguish fire to enter drains, ground or waterways.  
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024  
Version: 16.0  
Replaces version: 15.3  
Language: en-DE  
Date of print: 4.4.2024

Page: 4 of 11

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. Avoid contact with the substance.  
If possible, eliminate leakage. Provide adequate ventilation.  
Wear appropriate protective equipment. Keep unprotected people away.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.  
If necessary notify appropriate authorities.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.  
Ventilate affected area.  
Clean contaminated objects and areas thoroughly observing environmental regulations.  
Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Put lids on containers immediately after use.  
Wear appropriate protective equipment. Do not breathe mist/vapours/spray.  
Do not eat, drink or smoke when using this product.  
Wash hands thoroughly after handling.  
Take off contaminated clothing and wash it before reuse.  
Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat.  
When handling larger quantities, take precautionary measures against electrostatic charging.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place. Keep only in the original container.  
Protect from frost, heat and sunlight.  
Store containers in upright position.

Hints on joint storage: Keep away from strong acids, strong bases and oxidizers.

Storage class: 10 = Combustible liquids, unless storage class 3

### 7.3 Specific end use(s)

No information available.



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024  
Version: 16.0  
Replaces version: 15.3  
Language: en-DE  
Date of print: 4.4.2024

Page: 5 of 11

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
128-37-0	3,5-Di-tert-butyl-4-hydroxytoluene	Germany: TRGS 900 Kurzzeit	40 mg/m <sup>3</sup> (Aerosol and vapour, inhalable fraction)
		Germany: TRGS 900 Langzeit	10 mg/m <sup>3</sup> (Aerosol and vapour, inhalable fraction)

### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

### Personal protection equipment

#### Occupational exposure controls

**Respiratory protection:** Respiratory protection must be worn whenever the WEL levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

**Hand protection:** Protective gloves according to DIN EN 374.  
Glove material: NBR nitrile rubber.  
Layer thickness:  $\geq 0,38$  mm; Breakthrough time:  $\geq 480$  min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

**Eye protection:** Tightly sealed goggles according to DIN EN ISO 16321-1:2022.

**Body protection:** Wear suitable protective clothing.

**General protection and hygiene measures:**

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing.  
Take off contaminated clothing and wash it before reuse.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.  
Have eye wash bottle or eye rinse ready at work place.

#### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	green
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): Not applicable UEL (Upper Explosive Limit): Not applicable
Flash point/flash point range:	125 °C



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024  
Version: 16.0  
Replaces version: 15.3  
Language: en-DE  
Date of print: 4.4.2024

Page: 6 of 11

Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	at 40 °C: 18,6 mm <sup>2</sup> /s
Water solubility:	Insoluble
Partition coefficient: n-octanol/water:	Not applicable
Vapour pressure:	Not applicable
Density:	at 15 °C: 0,84 g/mL
Vapour density:	Not applicable
Particle characteristics:	Not applicable

### 9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Evaporation rate:	Not applicable
Additional information:	No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Protect from frost, heat and sunlight.

### 10.5 Incompatible materials

Strong acids, strong bases, strong oxidizing agents.

### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition:	No data available
------------------------	-------------------



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024  
Version: 16.0  
Replaces version: 15.3  
Language: en-DE  
Date of print: 4.4.2024

Page: 7 of 11

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

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

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

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

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

### 11.2 Information on other hazards

Endocrine disrupting properties: This product contains a substance that has endocrine disrupting properties with respect to humans.

Other information: Information about Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified:  
LD50 Rat, oral: > 5.001 mg/kg (OECD 401)  
LC50 Rat, inhalative: > 5,53 mg/L/4 h

Information about 3,5-Di-tert-butyl-4-hydroxytoluene:  
LD50 Rat, oral: > 2.930 mg/kg (OECD 401)  
LD50 Rat, dermal: > 5.000 mg/kg (OECD 402)

Information about Diphenyl tolyl phosphate:  
LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

### Symptoms

Cough, respiratory complaints, shortage of breath, fever.



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024

Version: 16.0

Replaces version: 15.3

Language: en-DE

Date of print: 4.4.2024

Page: 8 of 11

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity:	Harmful to aquatic life with long lasting effects. Information about Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified: Fish toxicity: LL50 Pimephales promelas (fathead minnow): > 100 mg/L/96h (OECD 203) Daphnia toxicity: NOEL Daphnia magna (Big water flea): 10 mg/L/21d (OECD 211) Algae toxicity: NOEL Pseudokirchneriella subcapitata (green algae): ≥ 100 mg/L/72h (OECD 201) Information about 3,5-Di-tert-butyl-4-hydroxytoluene: Daphnia toxicity: EC50 Daphnia magna (Big water flea): 0,48 mg/L/48h (OECD 202) NOEC Daphnia magna (Big water flea): 0,069 mg/L/21d (OECD 211) Information about Diphenyl tolyl phosphate: Algae toxicity: NOEC Desmodesmus subspicatus (green algae): 0,11 mg/L/72h (EU Method C.3)
Water Hazard Class:	1 = slightly hazardous to water (Self-classification (mixture).)

### 12.2 Persistence and degradability

Further details:	Information about 3,5-Di-tert-butyl-4-hydroxytoluene: Biodegradability, OECD 302C: 30 %. Information about Diphenyl tolyl phosphate: Biodegradability, OECD 301C: 75 %/28d.
Effects in sewage plants:	Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

### 12.3 Bioaccumulative potential

Information about 3,5-Di-tert-butyl-4-hydroxytoluene:	May accumulate in organisms.
Partition coefficient: n-octanol/water:	Not applicable

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

### 12.6 Endocrine disrupting properties

None

### 12.7 Other adverse effects

General information:	Information about Mixture: Do not allow uncontrolled discharge of product into the environment.
----------------------	--



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024

Version: 16.0

Replaces version: 15.3

Language: en-DE

Date of print: 4.4.2024

Page: 9 of 11

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 13 01 10\* = mineral based non-chlorinated hydraulic oils  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.

#### Package

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR:

not applicable

ADN: ID 9006

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

ADN: ID 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

ADN: Class 9, Code: M12

### 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

### 14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

### 14.6 Special precautions for user

#### Inland waterway craft (ADN)

Hazard label: -

Transport permitted: T

Equipment necessary: PP

### 14.7 Maritime transport in bulk according to IMO instruments

No data available



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024

Version: 16.0

Replaces version: 15.3

Language: en-DE

Date of print: 4.4.2024

Page: 10 of 11

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations - Germany

Storage class: 10 = Combustible liquids, unless storage class 3

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5

Information on working limitations:

Observe employment restrictions for young people.

Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

#### National regulations - EC member states

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 75.

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H304 = May be fatal if swallowed and enters airways.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

H412 = Harmful to aquatic life with long lasting effects.

Reason of change: Changes in section 1: Details of the supplier of the safety data sheet  
General revision

Date of first version: 11.3.2022

Department issuing data sheet:

see section 1: Department responsible for information



# Eni LHM SUPER-DE

Material number 362

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024  
Version: 16.0  
Replaces version: 15.3  
Language: en-DE  
Date of print: 4.4.2024

Page: 11 of 11

### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Aquatic Acute: Hazardous to the aquatic environment - acute  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
Asp. Tox.: Aspiration toxicity  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EC50: Effective Concentration 50%  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:  
<http://sumdat.net/xkhprrtcy>

