

Liebherr-Lubricants

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Safety data sheet

according to 1907/2006/EC, Article 31 and 830/2015/EC respectively

Printing date: 14.12.2017

**Version number 3

Revision: 14.12.2017

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

1.1 Product identifier

Trade name: **Liebherr Spezialfett 1026 LS**

Application / Use: Lubricating grease

Article number:

Set-number MSDS:

18044

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

Application of the substance / the preparation: Grease

Uses advised against: No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

LIEBHERR-LOGISTICS GmbH

St. Vitus 1

D - 88457 Kirchdorf an der Iller

LIEBHERR-COMPONENTS BIBERACH GmbH

Hans-Liebherr-Strasse 45

D - 88400 Biberach an der Riß

LIEBHERR-WERK BIBERACH GmbH

Memminger Straße 120

D - 88400 Biberach an der Riß

LIEBHERR-WERK EHINGEN GmbH

Dr.-Hans-Liebherr-Strasse 1

D - 89584 Ehingen

LIEBHERR-MISCHTECHNIK GmbH

Im Elchgrund 12

D - 88427 Bad Schussenried

LIEBHERR-MINING EQUIPMENT COLMAR SAS

49 rue Frédéric Hartmann

CS 50038

F - 68025 Colmar Cedex

LIEBHERR-WERK NENZING GmbH

Dr.-Hans-Liebherr-Strasse 1

A - 6710 Nenzing

Further information obtainable from:

Liebherr-Lubricant-Hotline: +49 (0) 73 54 / 80-6060

email: lubricants@liebherr.com

1.4 Emergency telephone number:

In case of emergency ONLY:

During working hours (CET): + 49 (0) 73 54 / 80-6060

Emergency response (24 hours) CHEMTREC: +1-703-527-3887 / +1-703-741-5970

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+ (44)-870-8200418 (United Kingdom)
+ (31)-858880596 (Netherlands)
+ (61)-290372994 (Australia)
0-800-983-611 (within South Africa)
1-800-424-9300 (within USA & Canada)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Precautionary statements

P501 Dispose of contents/container in accordance with local regulations.

Additional information:

EUH208 Contains Amine phosphate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixture

Description: Mixture of base oils with thickener and additives.

Dangerous components:

CAS: 64742-53-6 EINECS: 265-156-6 Reg.nr.: 01-2119480375-34	Distillates (petroleum), hydrotreated light naphthenic	Asp. Tox. 1, H304	25-50%
CAS: 64742-52-5 EINECS: 265-155-0 Reg.nr.: 01-2119467170-45	Distillates (petroleum), hydrotreated heavy naphthenic	Asp. Tox. 1, H304	25-50%

Additional information:

The wording of the hazard symbols and H-phrases is specified in section 16 if dangerous ingredients are mentioned.

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Components with threshold limit values are mentioned at section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

Information for doctor: Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, sand, extinguishing powder.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Do not use water with full jet.

5.2 Special hazards arising from the substance or mixture:

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Sulphur oxide (SO_x)

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Particular danger of slipping on leaked/spilled product.

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6.2 Environmental precautions:

Do not allow to enter sewers, surface or ground water.
Prevent from spreading (e.g. by damming-in or oil barriers).

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.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Store in cool, dry place in tightly closed receptacles.

Handling: When handling product in drums use safety footwear and suitable tools. At work please do not eat, drink or smoke.

Information about fire - and explosion protection: Fire class DIN EN 2: B

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.
Provide floor trough without outlet.
Prevent any seepage into the ground.

Information about storage in one common storage facility:

Store away from foodstuffs.
Store away from oxidising agents.
Store away from water.

Further information about storage conditions: Recommended storage temperature: 5 to 40 °C

Shelf life from date of dispatch: 3 years (at proper storage)

7.3 Specific end use(s): For more information see technical information.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see section 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Additional Occupational Exposure Limit Values for possible hazards during processing: TLV-TWA oil mist 5 mg/m³

Additional information:

The lists valid during the making were used as basis.
If formation of steam, mist or aerosols take place the concentration in the air has to be kept at the lowest possible level.

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8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Avoid close or long term contact with the skin.

Respiratory protection:

No respiratory protection is ordinarily required under normal conditions of use. Select a filter suitable for combined particulate/ gases and organic vapours (boiling point > 65 °C, AP2, EN 14387), if exposure limit is exceeded or when aerosol or mist is formed.

Protection of hands:

Safety gloves of nitrile rubber or viton.
Preventive skin protection by use of skin-protecting agents is recommended.

Material of gloves

Fluorocarbon rubber (Viton)
Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Value for the permeation: Level = 6 (480 min)

Eye protection: Safety glasses with side shields or chemical goggles are required.

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Pasty
Colour:	Beige
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value: Not determined.

Change in condition

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	Not determined.
Drip point:	>145 °C

Flash point: >160 °C

Flammability (solid, gas): Not applicable.

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Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	The product shows no danger of explosion, but it may build explosive mixtures with air (by vaporisation, oil mist formation, heating above the flash point).
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	0,92 g/cm ³ (DIN 51 757)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity See 10.2 to 10.6

10.2 Chemical stability: Stable at normal conditions.

Thermal decomposition / conditions to be avoided: Avoid contact with heat, sparks, flames and all other sources of ignition.

10.3 Possibility of hazardous reactions: Reacts with strong oxidising agents.

10.4 Conditions to avoid No specific data available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Oxides of carbon, nitrogen, sulfur and metal oxides

Additional information: Product is not classified as inflammable but can burn.

SECTION 11: Toxicological information

11.1 Information on toxicological effects These statements are based on data for components of the material or for similar materials.

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

LD/LC50 values relevant for classification:

64742-53-6 Distillates (petroleum), hydrotreated light naphthenic

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic

Oral	LD50	>5,000 mg/kg (rat)
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Primary irritant effect:

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.

by inhalation: No irritant effect expected.

Respiratory or skin sensitisation

There are no indications for a sensitising potential of the product. Contains substances with sensitising potential in low concentration.

Subacute to chronic toxicity:

Prolonged and/or repeated contact may cause defatting of the skin which can lead to dermatitis and may make the skin more susceptible to irritation and penetration by other materials.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity 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.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil The product is not soluble in water. If it enters soil, it will adsorb to soil particles and will not be mobile.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

European waste catalogue

12 01 12*	spent waxes and fats
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Uncleaned packaging: Empty packing completely. Handover to authorized disposal company.

Recommendation:

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA

Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Void

14.4 Packing group

ADR, IMDG, IATA

Void

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the

IBC Code

Not applicable.

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UN "Model Regulation":

Void

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H304 May be fatal if swallowed and enters airways.

Department issuing SDS: Liebherr Lubricants

Contact:

Liebherr-Lubricant-Hotline: +49 (0) 73 54 / 80-6060

E-mail: lubricants@liebherr.com

Abbreviations and acronyms:

PBT: Persistent, Bioaccumulative and Toxic

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Asp. Tox. 1: Aspiration hazard – Category 1

* Data compared to the previous version altered.

**Information about the version number: Replaces all previous versions.

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