



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Chain Lubricant - Oil of Rohloff

Version number: GHS 2.0
Replaces version of: 2017-11-30 (GHS 1)

revision: 2018-09-21

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

1.1 Product identifier

Identification of the mixture Chain Lubricant - Oil of Rohloff
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses lube oil

1.3 Details of the supplier of the safety data sheet

Rohloff AG
Moenchswiese 11
34233 Fuldata
Germany

Telephone: +49 (0) 561 510800
Telefax: +49 (0) 561 510815
e-mail: service@rohloff.de

Competent person responsible for the safety data sheet Team REACH BfU AG
e-mail (competent person) reach@bfu-ag.de

1.4 Emergency telephone number

This number is only available during the following office hours: Mon-Fri 09:00 - 16:00

Poison centre					
Country	Name	Street	Postal code/city	Telephone	Telefax
United Kingdom	Toxicological Information of Rohloff AG			+49 (0)561 51 08 11	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

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

not required

2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture Ester oil
Remarks No dangerous substances



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SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Take off contaminated clothing. If on skin wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

Following ingestion

Provide fresh air. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth with water (only if the person is conscious).

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, alcohol resistant foam, dry extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO₂), sulphur oxides (SO_x)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Use personal protective equipment as required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Provision of sufficient ventilation. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.



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6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advices on how to clean up a spill

Collect spillage

Appropriate containment techniques

Use of adsorbent materials.

Equipment required for containment/clean-up

Personal protective equipment.

Suitable material for cleaning/taking up

Kieselgur (diatomite), Sand, Vermiculite.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- **Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- **Explosive atmospheres**

Use local and general ventilation. Use only in well-ventilated areas.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

- **Packaging compatibilities**

Keep only in original container. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store in a dry place. Keep container tightly closed and store upright to prevent any run out of product. Storage in accordance with national legal standards. Storage in properly labeled containers.

7.3 Specific end use(s)

See section 16 for a general overview.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This mixture does not contain any substances which have an occupational exposure limit assigned.

8.2 Exposure controls

Appropriate engineering controls

Concentration in the air has to be lower than the occupational limit value.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection (EN 166).

Skin protection

• hand protection

In case of repetitive or longer contact wear gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. In case of short term exposure/ for splash protection: NBR: acrylonitrile-butadiene rubber, Protective index class 1.

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Not required, except for aerosol formation: Type of filter A-P.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	brown
Odour	characteristic

Other physical and chemical parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	≥220 °C (offener Tiegel) Testmethod: ISO 2592
Evaporation rate	data are not available
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	<0.001 hPa at 20 °C
Density	0.94 g/cm ³ at 20 °C
Solubility(ies)	data are not available
Partition coefficient	data are not available
n-octanol/water (log KOW)	data are not available
Auto-ignition temperature (liquids and gases)	not determined



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Viscosity

- kinematic viscosity

320 mm²/s at 40 °C

- dynamic viscosity

data are not available

Explosive properties

none

Oxidising properties

data are not available

9.2 Other information

There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". No special restrictions on hazards

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

No substances to be mentioned particularly

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

No information available.

Skin corrosion/irritation

This information is not available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitisation

No information available.

Summary of evaluation of the CMR properties

Data are not available.

Specific target organ toxicity (STOT)

Data are not available.

Other information

Data on similar mixtures were used.



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SECTION 12: Ecological information

12.1 Toxicity

Data are not available.

Biodegradation

The relevant substances of the mixture are readily biodegradable.

12.2 Persistence and degradability

Process	Degradation rate	Time	Method
carbon dioxide generation	>60 %	28 d	OECD test guideline 301 F

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Assign arising waste to a waste code according to the national list of waste. Dispose of contents/container to recovery or disposal facilities.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | | |
|------|--|--|
| 14.1 | UN number | (not subject to transport regulations) |
| 14.2 | UN proper shipping name | not relevant |
| 14.3 | Transport hazard class(es)
Class | - |
| 14.4 | Packing group | not relevant |
| 14.5 | Environmental hazards | none (non-environmentally hazardous acc. to the dangerous goods regulations) |
| 14.6 | Special precautions for user
There is no additional information. | |
| 14.7 | Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk. | |



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SECTION 15: Regulatory information

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

- List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

- Seveso Directive

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

- Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

- Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.4		Poison centre: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SVHC	Substance of Very High Concern
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties, Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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List of relevant phrases (code and full text as stated in chapter 2 and 3)

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product

Data sheet issued by: BfU AG - www.bfu-ag.de.