

Version 3.1

Revision Date 23.08.2017

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

1.1 Product identifier

Product name

: LUB CHAIN OIL

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

| Use of the | : Lubricating oil |
|--------------------------|-------------------------------------|
| Substance/Mixture | |
| Recommended restrictions | : Restricted to professional users. |
| on use | |

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1.3 Details of the supplier of the safety data sheet

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Responsible/issuing person

National contact

Emergency telephone number

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2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements



Version 3.1

Revision Date 23.08.2017

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

| Chemical nature | : ester oil Synthetic hydrocarbon oil |
|-----------------|--|
| Remarks | : No hazardous ingredients |

4. First aid measures

4.1 Description of first aid measures

| If inhaled | Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. |
|---|--|
| In case of skin contact | : Remove contaminated clothing. If irritation develops, get medical attention. In case of contact, immediately flush skin with plenty of water. |
| In case of eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist. |
| If swallowed | : Move the victim to fresh air. Do NOT induce vomiting. Rinse mouth with water. |
| 4.2 Most important symptoms and effects, both acute and delayed | |

| Symptoms | : No information available. |
|----------|-----------------------------|
| | |

| Risks | : None known. |
|-------|---------------|
| Risks | : None known. |

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

5. Firefighting measures

5.1 Extinguishing media

| Suitable extinguishing media | : Use water spray, alcohol-resistant foam, dry chemical or |
|------------------------------|--|
| | carbon dioxide. |



| Version 3.1 | Revision Date 23.08.2017 | |
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| Unsuitable extinguishing media 5.2 Special hazards arising from t | : High volume water jet the substance or mixture | |
| Specific hazards during firefighting | : Fire may cause evolution of: Carbon oxides Nitrogen oxides (NOx) | |
| 5.3 Advice for firefighters | | |
| Special protective equipment for firefighters | In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. Exposure to decomposition products may be a hazard to health. | |
| Further information | : Standard procedure for chemical fires. | |

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | : Evacuate personnel to safe areas. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. |
|-------------------------------|--|
| 6.2 Environmental precautions | |
| Environmental precautions | Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained. |

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

| Advice on safe handling | : For personal protection see section 8. |
|-------------------------|--|
| | Smoking, eating and drinking should be prohibited in the |
| | application area. |
| | Wash hands and face before breaks and immediately after |
| | handling the product. |



Version 3.1

Revision Date 23.08.2017

7.2 Conditions for safe storage, including any incompatibilities

| Requirements for storage areas and containers | Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers. |
|---|---|
|---|---|

7.3 Specific end use(s)

: Consult the technical guidelines for the use of this substance/mixture.

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.

Personal protective equipment

| Respiratory protection | : Not required; except in case of aerosol formation. Filter type A-P |
|------------------------|--|
| Hand protection | : For prolonged or repeated contact use protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. In case of contact through splashing: |
| | : Nitrile rubber Protective index Class 1 |
| Eye protection | : Safety glasses with side-shields conforming to EN166 |
| Hygiene measures | : Wash face, hands and any exposed skin thoroughly after handling. |
| Protective measures | The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Choose body protection in relation to its type, to the |



Version 3.1

Revision Date 23.08.2017

concentration and amount of dangerous substances, and to the specific work-place.

Environmental exposure controls

 General advice
 : Try to prevent the material from entering drains or water courses.

 Prevent further leakage or spillage if safe to do so.

 Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties

| 9.1 Information on basic phys Appearance | ical and chemical properties : liquid |
|--|--|
| Colour | : green |
| Odour | : characteristic |
| Odour Threshold | : No data available |
| рН | : No data available |
| Melting point/range | : No data available |
| Boiling point/boiling range | : No data available |
| Flash point | : >= 220 °C, Test Method: open cup, ISO 2592 |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Lower explosion limit | : No data available |
| Upper explosion limit | : No data available |
| Vapour pressure | : < 0.001 hPa, 20 °C |
| Relative vapour density | : No data available |
| Density | : 0.95 g/cm3, 20 °C |
| Water solubility | : insoluble |
| Solubility in other solvents | : No data available |
| Partition coefficient: n- octanol/water | : No data available |
| Auto-ignition temperature | : No data available |
| Ignition temperature | : No data available |
| Thermal decomposition | : No data available |
| Viscosity, dynamic | : No data available |
| Viscosity, kinematic | : 320 mm2/s, 40 °C |
| Explosive properties | : Not explosive |
| Oxidizing properties | : No data available |

9.2 Other information



| Version 3.1 | Revision Date 23.08.2017 |
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| Sublimation point | : No data available |
| Bulk density | : No data available |
| 10. Stability and reactivity | |
| 10.1 Reactivity | |
| No hazards to be specially m | entioned. |
| 10.2 Chemical stability | |
| Stable under normal condition | ns. |
| 10.3 Possibility of hazardous re | actions |
| Hazardous reactions | : No dangerous reaction known under conditions of normal use. |
| 10.4 Conditions to avoid | |
| Conditions to avoid | : No conditions to be specially mentioned. |
| 10.5 Incompatible materials | |
| Materials to avoid | : No materials to be especially mentioned. |
| 10.6 Hazardous decomposition | products |
| Hazardous decomposition products | : No decomposition if stored and applied as directed. |

11. Toxicological information

11.1 Information on toxicological effects_

Product

| Acute oral toxicity | : This information is not available. |
|-----------------------------------|--------------------------------------|
| Acute inhalation toxicity | : This information is not available. |
| Acute dermal toxicity | : This information is not available. |
| Skin corrosion/irritation | : This information is not available. |
| Serious eye damage/eye irritation | : This information is not available. |
| Respiratory or skin sensitisation | : This information is not available. |
| Germ cell mutagenicity | |
| Genotoxicity in vitro | : No data available |
| Genotoxicity in vivo | : No data available |
| Carcinogenicity | : No data available |
| Reproductive toxicity | : No data available |
| Teratogenicity | : No data available |
| Repeated dose toxicity | : This information is not available. |



| Version 3.1 | Revision Date 23.08.2017 |
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| Aspiration toxicity | : This information is not available. |
| Further information | : Information given is based on data on the components and the toxicology of similar products. |

12. Ecological information

12.1 Toxicity

Product:

| Toxicity to fish | : |
|-------------------------------|-------------------|
| | No data available |
| Toxicity to daphnia and other | : |
| aquatic invertebrates | No data available |
| Toxicity to algae | : |
| , , | No data available |
| Toxicity to bacteria | : |
| | No data available |

12.2 Persistence and degradability

Product:

| Biodegradability | : Ne data available |
|---|--|
| Physico-chemical removability 12.3 Bioaccumulative potential _ | No data available : No data available |
| Product: | |
| Bioaccumulation | : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB). |
| 12.4 Mobility in soil | |
| Product: | |
| Mobility Distribution among environmental compartments | : No data available : No data available |
| 12.5 Results of PBT and vPvB asse | ssment_ |
| Product: | |
| Assessment | : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
| 12.6 Other adverse effects | |
| Product: | |



| Version 3.1 | Revision Date 23.08.2017 |
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| Additional ecological information | : No information on ecology is available. |
| 13. Disposal considerations | |
| 13.1 Waste treatment methods | |
| Product | : The product should not be allowed to enter drains, water courses or the soil. |
| | : Waste codes should be assigned by the user based on the application for which the product was used. |
| Contaminated packaging | : Empty containers can be landfilled, when in accordance with the local regulations. |

14. Transport information

14.1 UN number

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.2 Proper shipping name

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.3 Transport hazard class

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.4 Packing group

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.5 Environmental hazards ADR



Version 3.1

Revision Date 23.08.2017

Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.6 Special precautions for user

No special precautions required.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Remarks : Not applicable for product as supplied.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture $% \mathcal{A} = \mathcal{A} + \mathcal{A}$

| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). |
|--|---|
| Major Accident Hazard Legislation | : 96/82/EC Update: Not applicable |
| | : 2012/18/EU Update: Not applicable |
| Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) | : Not applicable |

15.2 Chemical safety assessment

This information is not available.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

Further information

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Version 3.1

Revision Date 23.08.2017

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