

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.06.2011

Version number 1

Revision: 23.06.2011

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

- **Product identifier**
 - **Trade name:** RENOLIN LD 10
 - **Relevant identified uses of the substance or mixture and uses advised against**
 - **Application of the substance / the preparation** Hydraulic fluid
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Festool GmbH
Wertstrasse 20
73240 Wendlingen
Tel: +49 (0)7024/ 8 04-0
Fax: +49 (0) 7024/ 8 04-20608
www.festool.com
www.festool-automotive.com
 - **Informing department:**
Tel: +49/(0)7024/ 8 04-0
info@tts-festool.com
 - **Emergency telephone number:** Tel: +49 (0)7024/ 8 04-0

2 Hazards identification

- **Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
 - **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 - **Classification system:**
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.
- **Label elements**
 - **Labelling according to EU guidelines:**
Observe the normal safety regulations when handling chemicals
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials.
 - **Code letter and hazard designation of product:** Not classified!
 - **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.06.2011

Version number 1

Revision: 23.06.2011

Trade name: RENOLIN LD 10

(Contd. from page 1)

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
 - **Description:** Highly refined mineral oil (IP 346 DMSO < 3%) and additives.
- **Dangerous components:** Void
- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
 - **General information**
 - Instantly remove any clothing soiled by the product.
 - Measures refer to contact with adhering residual oil.
 - **After inhalation** Supply fresh air; consult doctor in case of symptoms.
 - **After skin contact**
 - An inadvertent high-pressure injection through the skin immediately requires medical aid.
 - Instantly wash with water and soap and rinse thoroughly.
 - **After eye contact** Rinse opened eye for several minutes under running water.
 - **After swallowing**
 - Do not induce vomiting; instantly call for medical help.
 - Rinse out mouth and then drink plenty of water.
- **Information for doctor**
 - **Most important symptoms and effects, both acute and delayed**
 - No further relevant information available.
 - **Indication of any immediate medical attention and special treatment needed**
 - No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents**
 - Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
 - Use fire fighting measures that suit the environment.
 - **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture**
 - Can be released in case of fire
 - Carbon monoxide (CO)
- **Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Particular danger of slipping on leaked/spilled product.
 - Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
 - Do not allow to enter drainage system, surface or ground water.
 - Prevent from spreading (e.g. by damming-in or oil barriers).
 - Do not allow to enter the ground/soil.
- **Methods and material for containment and cleaning up:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
 - Send for recovery or disposal in suitable containers.
- **Reference to other sections**
 - See Section 7 for information on safe handling

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 23.06.2011

Version number 1

Revision: 23.06.2011

Trade name: RENOLIN LD 10

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

(Contd. from page 2)

7 Handling and storage

- **Handling**
 - **Precautions for safe handling**
 Avoid the formation of oil haze.
 No special precautions necessary if used correctly.
 - **Information about protection against explosions and fires:** Do not heat close to flash point.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and containers:**
 Store only in the original container.
 Keep container tightly closed and store upright to prevent any run out of product.
 Prevent any penetration into the ground.
 - **Information about storage in one common storage facility:** Store away from foodstuffs.
 - **Further information about storage conditions:**
 Store in cool, dry conditions in an well ventilated area.
- **Specific end use(s)** Hydraulic fluid

8 Exposure controls/personal protection

- **Control parameters**
 - **Components with limit values that require monitoring at the workplace:**
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
 - **Personal protective equipment**
 - **General protective and hygienic measures**
 The usual precautionary measures should be adhered to general rules for handling chemicals.
 Avoid close or long term contact with the skin.
 Do not carry cleaning cloths impregnated with the product in trouser pockets.
 Use skin protection cream for preventive skin protection.
 Be sure to clean skin thoroughly after work and before breaks.
 - **Breathing equipment:** Not required.
 - **Protection of hands:**
 Protective gloves and protective skin cream.
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 - **Material of gloves**
 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.
 - **For the permanent contact gloves made of the following materials are suitable:**
 Nitrile rubber, NBR

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.06.2011

Version number 1

Revision: 23.06.2011

Trade name: RENOLIN LD 10

(Contd. from page 3)

- Neoprene gloves
- **Not suitable are gloves made of the following materials:**
 - Butyl rubber, BR
 - Natural rubber, NR
- **Eye protection:** Safety glasses recommended during refilling.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

- **Form:** Fluid
- **Colour:** Light yellow
- **Odour:** Characteristic
- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

· Change in condition

- **Melting point/Melting range:** Not determined
- **Boiling point/Boiling range:** Not applicable

- **Flash point:** 220 °C (EN ISO 2592)

- **Inflammability (solid, gaseous)** Not applicable.

· Ignition temperature:

- **Decomposition temperature:** Not determined.

- **Self-inflammability:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive.

- **Vapour pressure:** Not determined.

- **Density at 20 °C** 0.88 g/cm³ (DIN 51757)

- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.

· Solubility in / Miscibility with

- **Water:** Not miscible or difficult to mix

- **Segregation coefficient (n-octanol/water):** Not determined.

· Viscosity:

- **kinematic at 40 °C:** 48.5 mm²/s (DIN 51562)

· Solvent content:

- **Organic solvents:** 0.0 %
- **Water:** 0.0 %

- **Other information** No further relevant information available.

10 Stability and reactivity

· Reactivity

· Chemical stability

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Possibility of hazardous reactions** Reacts with strong oxidizing agents

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.06.2011

Version number 1

Revision: 23.06.2011

Trade name: RENOLIN LD 10

(Contd. from page 4)

- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
 - **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritant effect.
 - **Sensitization:** No sensitizing effect known.
 - **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC 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 according to our experience and the information provided to us.

12 Ecological information

- **Toxicity**
 - **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
 - **Other information:** There are no data available about the preparation.
- **Behaviour in environmental systems:**
 - **Components:**
A product that has flown out can lead to the formation of a film on the water surface which reduces the oxygen exchange and results in the organisms dying-off.
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
 - **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
 - **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation**
Smaller quantities can be disposed with household waste.
The waste code numbers mentioned are recommendations based on the probable use of the product.

| · European waste catalogue | |
|-----------------------------------|---|
| 13 00 00 | OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19) |
| 13 01 00 | waste hydraulic oils |
| 13 01 10* | mineral based non-chlorinated hydraulic oils |

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 1

Revision: 23.06.2011

Trade name: RENOLIN LD 10

(Contd. from page 5)

- **Uncleaned packagings:**
 - **Recommendation:**
Disposal must be made according to official regulations.
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Dispose of packaging according to regulations on the disposal of packagings.

14 Transport information

| | |
|--|--|
| · UN-Number · ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name · ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) · ADR, IMDG · Class | Void No hazardous good. |
| · ADN/R Class: | Void |
| · IATA · Class | Void Not Restricted. |
| · Packing group · ADR, IMDG, IATA | Void |
| · Environmental hazards: · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | - |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Designation according to EC guidelines:**
Observe the normal safety regulations when handling chemicals
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials.
 - **National regulations**
 - **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
 - **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

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Version number 1

Revision: 23.06.2011

Trade name: RENOLIN LD 10

(Contd. from page 6)

· Department issuing data specification sheet:

This Material Safety Data Sheet has been drawn up in cooperation with:
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· Abbreviations and acronyms:

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

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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