

Page 1 of 10 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.09.2018 / 0003 Replacing version dated / version: 21.08.2015 / 0002 Valid from: 20.09.2018 PDF print date: 20.09.2018 Hydraulikoel HLP 100 20 L Art.: 4132

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Hydraulikoel HLP 100 20 L Art.: 4132

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

No information available at present.

Sector of use [SU]:

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SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC17 - Hydraulic fluids

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC20 - Use of functional fluids in small devices

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 9a - Widespread use of functional fluid (indoor)

ERC 9b - Widespread use of functional fluid (outdoor)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany Phone:(+49) 0731-1420-0, Fax:(+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture



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Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP) Not applicable

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0, 1 %).

Product can compose a film on the water surface, which can prevent oxygen exchange.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. **3.2 Mixture**

Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	
CAS	
content %	
Classification according to Regulation (EC) 1272/2008 (CLP)	

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Do not induce vomiting. Consult doctor immediately. Danger of aspiration

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. The following may occur: Drying of the skin. Irritation of the skin.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures



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5.1 Extinguishing media

Suitable extinguishing media

CO2 Dry extinguisher Water jet spray

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Oxides of sulphur Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure good ventilation. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin. Do not carry cleaning cloths soaked in product in trouser pockets.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells. Store product closed and only in original packing. Store at room temperature. Store in a dry place.



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7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

GB Chemical Name Oil mist, m	eral	Content %:
WEL-TWA: 5 mg/m3 (Mineral oil, excluding me	al WEL-STEL:	
working fluids, ACGIH)		
Monitoring procedures:	- Draeger - Oil 10/a-P (67 28 371)	
	- Draeger - Oil Mist 1/a (67 33 031)	
BMGV:	Other information:	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles (EN 166) with side protection, with danger of projections.

Skin protection - Hand protection: Protective hand cream recommended. Chemical resistant protective gloves (EN 374). If applicable Protective Neoprene® / polychloroprene gloves (EN 374). Protective nitrile gloves (EN 374) Safety gloves made of fluorocarbon rubber (EN 374). Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes: 480 The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.



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Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. With oil mist formation: Filter A P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

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Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Light brown
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	n.a.
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	250 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,890 g/ml (20°C)
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	105 mm2/s (40°C)
Viscosity:	11,3 mm2/s (100°C)
Explosive properties:	Product is not explosive.
Oxidising properties:	No
9.2 Other information	
Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

SECTION 10: Stability and reactivity



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10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling. 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7. None known

10.5 Incompatible materials

See also section 7. Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2 No dangerous reactions are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Foxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification). Hydraulikoel HLP 100 20 L Art.: 4132 Toxicity / effect Endpoint Time Value Unit Organism Test method Notes 12.1. Toxicity to fish: n.d.a. 12.1. Toxicity to daphnia: 12.1. Toxicity to algae: n.d.a. n.d.a. 12.2. Persistence and Mechanical degradability: precipitation possible. 12.3. Bioaccumulative n.d.a. potential: 12.4. Mobility in soil: n.d.a. 12.5. Results of PBT n.d.a. and vPvB assessment



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12.6. Other adverse	n.d.a.
effects:	
SECTION 13: Disp	osal considerations
13.1 Waste treatment methods	
For the substance / mixture / residual amounts	
Soaked polluted cloths, paper or other organic materials represent a fir	e hazard and should be controlled, collected and disposed of.
EC disposal code no.:	
The waste codes are recommendations based on the scheduled use of	
Owing to the user's specific conditions for use and disposal, other wast	e codes may be
allocated under certain circumstances. (2014/955/EU)	
07 06 99 wastes not otherwise specified	
13 01 10 mineral based non-chlorinated hydraulic oils	
Recommendation:	
Sewage disposal shall be discouraged.	
Pay attention to local and national official regulations.	
E.g. dispose at suitable refuse site.	
E.g. suitable incineration plant.	
For contaminated packing material	
Pay attention to local and national official regulations.	
15 01 01 paper and cardboard packaging	
15 01 02 plastic packaging	
15 01 04 metallic packaging	
SECTION 14: Tra	nsport information
General statements	
14.1. UN number:	n.a.
14.1. UN number:	n.a.
14.1. UN number: Transport by road/by rail (ADR/RID)	n.a.
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 14.1. UN number: Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Classification code: LQ: 14.5. Environmental hazards: Tunnel restriction code: Transport by sea (IMDG-code) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine Pollutant: 14.5. Environmental hazards: Transport by air (IATA) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine Pollutant: 14.5. Environmental hazards: Transport by air (IATA) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: 14.5. Environmental hazards: Transport by air (IATA) 14.7. Transport in bulk according to Annex II of Non-dangerous material according to Transport Regulations. 	n.a. n.a. n.a. n.a. Not applicable n.a. n.a Not applicable e followed.
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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



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GB

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Observe restrictions: General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

0 g/l

Revised sections:

4, 6, 7, 8, 10

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP): Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

Any abbreviations and acronyms used in this document:

ADR Internat AOEL AOX	Article Categories cc. to according, according to American Conference of Governmental Industrial Hygienists Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the tional Carriage of Dangerous Goods by Road) Acceptable Operator Exposure Level Adsorbable organic halogen compounds approximately
Art., Ar	rt. no. Article number
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA	Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF BGV	Bioconcentration factor
BHT	Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)
	Biological monitoring guidance value (EH40, UK)
BOD	Biochemical oxygen demand
BSEF	Bromine Science and Environmental Forum
bw	body weight
CAS	Chémical Abstracts Service
CEC	Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids
	Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
	Collaborative International Pesticides Analytical Council
CLP	Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances
and mix	
CMR COD	carcinogenic, mutagenic, reproductive toxic
CTFA	Chemical oxygen demand Cosmetic, Toiletry, and Fragrance Association
	Derived Minimum Effect Level
	Derived No Effect Level
DOC	Dissolved organic carbon
DT50	Dwell Time - 50% reduction of start concentration
DVS	Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
dw	dry weight
e.g.	for example (abbreviation of Latin 'exempli gratia'), for instance
EC	European Community
	European Chemicals Agency
EEA	European Economic Area



ആ Page 9 of 10 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.09.2018 / 0003 Replacing version dated / version: 21.08.2015 / 0002 Valid from: 20.09.2018 PDF print date: 20.09.2018 Hydraulikoel HLP 100 20 L Art.: 4132 European Economic Community EEC EINECS European Inventory of Existing Commercial Chemical Substances **FLINCS** European List of Notified Chemical Substances ΕN **European Norms** EPA United States Environmental Protection Agency (United States of America) ERC **Environmental Release Categories** ES Exposure scenario et cetera etc. EU **European Union** EWC European Waste Catalogue Fax. Fax number general aen. Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential Hen's Egg Test - Chorionallantoic Membrane HET-CAM HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer International Air Transport Association IATA IBC Intermediate Bulk Container IBC (Code) International Bulk Chemical (Code) IC Inhibitory concentration IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. IUCLID International Uniform ChemicaL Information Database lethal concentration LC LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration Lethal Dose of a chemical LD LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. not available n.av. not checked n.c. no data available n.d.a. NIOSH National Institute of Occupational Safety and Health (United States of America) NOAECNo Observed Adverse Effective Concentration NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP **Ozone Depletion Potential** OECD Organisation for Economic Co-operation and Development organic org. PAH polycyclic aromatic hydrocarbon persistent, bioaccumulative and toxic PBT PC Chemical product category ΡE Polyethylene PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential parts per million ppm PROC Process category PTFE Polytetrafluorethylene REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) **REACH-IT List-No.** 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International RID Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature



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The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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