Revision: 01.07.2008 +-----+ 1 Identification of substance: • Product details: • Trade name: RENOLIN 505 VDL 150 20L PLA · Application of the substance / the preparation: Hydraulic fluid Manufacturer/Supplier: FUCHS EUROPE SCHMIERSTOFFE GMBH EXPORT DIVISION Friesenheimer Str. 15 D-68169 Mannheim Tel: ++49 (0)621/3701-0 (Switch Board) Fax: ++49 (0)621/3701-570 • Informing department: Product safety department Tel: ++49 (0)621/3701-333 E-Mail: Produktsicherheit@fuchs-europe.de • Emergency information: Tel: ++49 (0)621/3701-333 or ++49 (0)621/3701-0 (Switch Board) 2 Hazards identification Hazard designation: By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. Information pertaining to particular dangers for man and environment This product is water polluting; see item 12. R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · 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. The classification results from the Conventional Method of the Directive 1999/45/EC concerning specific data of compounds. \_\_\_\_\_ 3 Composition/information on ingredients · Chemical characterization • Description: Mixture containing severely refined base oils and additives. Dangerous components: R-phrases Aryldialkylphosphite 0.1-1 % Xi, N; R 38-43-50/53 • Additional information For the wording of the listed risk phrases refer to section 16. ----GB-+

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<ul> <li>4 First aid measures</li> <li>General information Change clothes and shoes contaminated or soake Never put rags contaminated by the product int</li> <li>After inhalation Seek medical treatment in cas</li> <li>After skin contact Instantly wash with water and soap and rinse t</li> <li>After eye contact Rinse opened eye for several minutes under run</li> </ul>	to cloth-pockets. se of complaints.
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• After swallowing Seek medical treatment.	ning water.
5 Fire fighting measures	
<ul> <li>Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight with water jet or alcohol-resistant foam. Use fire fighting measures that suit the envir</li> <li>For safety reasons unsuitable extinguishing ag Water with a full water jet.</li> <li>Protective equipment: In case of fire fighting: wear self containing</li> </ul>	conment. gents
6 Accidental release measures	
<ul> <li>Person-related safety precautions: Particular danger of slipping on leaked/ spill</li> <li>Environmental protection measures: Do not allow to enter drainage system, surface Prevent from spreading (e.g. by binding or oil Do not allow to enter the ground/ soil.</li> <li>Measures for cleaning/collecting: Absorb with liquid-binding material (sand, dia universal binders, sawdust). Dispose of the material collected according to Additional information: No dangerous materials</li> </ul>	e or ground water. barriers). atomite, acid binders, pregulations.
7 Handling and storage	
<ul> <li>Handling</li> <li>Information for safe handling: Prevent formati</li> <li>Information about protection against explosion Do not heat up to temperatures close to the fl</li> </ul>	ns and fires:
<ul> <li>Storage</li> <li>Requirements to be met by storerooms and conta No special requirements.</li> </ul>	iners: (Contd. on page 3)

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	Trade name: RENOLIN 505 VDL 150 20L PLA
	(Contd. of page 2) Information about storage in one common storage facility: Store away from foodstuffs. Further information about storage conditions: None.
3	Exposure controls and personal protection
	Additional information about design of technical systems: No further data; see item 7.
	Components with critical values that require monitoring at the workplace:
•	CAS No. Designation of material % Type Value Unit The product itself 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.
•	Personal protective equipment General protective and hygienic measures The usual precautionary measures should be adhered to in handling the chemicals and the mineral oil products. Wash hands during breaks and at the end of the work. Avoid close or long term contact with the skin. Use skin protection cream for preventive skin protection. Do not carry cleaning cloths impregnated with the product in trouser pockets. Breathing equipment: Not required. Protection of hands: Protective gloves and protective skin cream. 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 trough 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:
1	Nitrile rubber, NBR Neoprene gloves
	Not suitable are gloves made of the following materials: Butyl rubber, BR Natural rubber, NR
	Eye protection: Safety glasses recommended during refilling. (Contd. on page 4)

Revision: 01.07.2008 +-----+ Trade name: RENOLIN 505 VDL 150 201, PLA +-----(Contd. of page 3) • Body protection: Protective work clothing. 9 Physical and chemical properties: • General Information • Form: Fluid • Colour: Yellow • Smell: Characteristic Value/Range Unit Method  $\cdot$  Change in condition Melting point/Melting range: Not determined
Boiling point/Boiling range: not applicable or not determined 268 ° C ISO 2592 • Flash point: • Decomposition temperature: Not determined • Self-inflammability: Product is not selfigniting. • Danger of explosion: Product is not explosive. • Density at 15 ° C 0.886 g/cm3 DIN 51 757 • Solubility in / Miscibility with • Water: Not miscible or difficult to mix • Viscosity or Consistency-Class: • kinematic: at 40 ° C 151 mm²/s DIN 51 562 \_\_\_\_\_ 10 Stability and reactivity · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. · Dangerous reactions No dangerous reactions known • Dangerous products of decomposition: No dangerous decomposition products known \_\_\_\_\_ \_\_\_\_\_ 11 Toxicological information • Acute toxicity: Primary irritant effect: • on the skin: No irritant effect known. • on the eye: No irritant effect known. · Sensitization: No sensitizing effect known. • Additional toxicological information: When used and handled according to specifications, the product does (Contd. on page 5) 

Revision: 01.07.2008 \_\_\_\_\_+ Trade name: RENOLIN 505 VDL 150 201, PLA (Contd. of page 4) not have any harmful effects according to our actual informations. \_\_\_\_\_ 12 Ecological information: · Behaviour in environmental systems: • Mobility and bioaccumulation potential: No data available • Ecotoxical effects: • Remark: Harmful to fish • Behaviour in sewage processing plants: The product swims on the water surface. • General notes: German Water Endangering Class 1 (Self-assessment): slightly hazardous for water. Do not allow to reach ground water, water bodies or sewage system. Harmful to aquatic organisms 13 Disposal considerations • Product: • Recommendation Smaller quantities have to be disposed in line with local legislation. When storing used mineral oil products, ensure that the categories for waste oil and mixing instructions are observed. Delivery of waste oil only to offically authorized collectors. • European waste catalogue 13 01 10: mineral based non-chlorinated hydraulic oils • Uncleaned packagings: Recommendation: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Small one-way packagings have to be disposed according to the local regulations. EWC 15 01 99. 14 Transport information · Land transport ADR/RID and GGVS/GGVE (cross-border/domestic) • ADR/RID-GGVS/E Class: • Maritime transport IMDG/GGVSea: · IMDG/GGVSea Class: -• Marine pollutant: No • Air transport ICAO-TI and IATA-DGR: • ICAO/IATA Class: (Contd. on page 6) \_\_\_\_\_ -----GB-+

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+------Trade name: RENOLIN 505 VDL 150 201, PT.A (Contd. of page 5) • Transport/Additional information: No dangerous good acc. to dangerous goods/ transport directions. \_\_\_\_\_ 15 Regulatory information • Designation according to EU guidelines: The product has been classified and labelled in accordance with EC Directives until 2004/73/EC (29. ATP). Observe the normal safety regulations when handling chemicals or mineral oil products. • Risk phrases: 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. • Safety phrases: Avoid release to the environment. Refer to special 61 instructions/safety data sheets. • Special designation of certain preparations: Contains Aryldialkylphosphite. May produce an allergic reaction. • National regulations · German Water Hazard Class: Water Engangering Class 1 (Self-assessment): slightly hazardous for water. \_\_\_\_\_ 16 Other information: All ingredients are listed in the European Inventories. 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. This data sheet is a safety data sheet according to 91/155/EU. For products which are not subject to classification according to EU lists this data sheet is made on a voluntary base. • Relevant R-phrases for the hazardous components in item 3 38 Irritating to skin. May cause sensitisation by skin contact. 43 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. • Department issuing data specification sheet: FUCHS EUROPE SCHMIERSTOFFE GMBH Export Division Product Safety Departement (Contd. on page 7) 

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• Contact:	, i j
Product Safety Departement:	
Tel: ++49(0)621/3701-333 Mrs. Manuwa	ld
• Validity:	
With this latest edition of this MSD: valid any longer.	S all former editions are not
Changed items are marked with "*".	
* Data compared to the previous vers.	ion altered.