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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

Zentralhydraulik-Oel 2300 1 L Art.: 3665

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

Hydraulic oil

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Sector of use [SU]: 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

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+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



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2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementAsp. Tox.1H304-May be fatal if swallowed and enters airways.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H304-May be fatal if swallowed and enters airways.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331-Do NOT induce vomiting. P405-Store locked up.

P501-Dispose of contents / container to an approved waste disposal facility.

Distillates (petroleum), hydrotreated light naphthenic Distillates (petroleum), solvent-dewaxed light paraffinic

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 %).

In case of skin injury by high pressure, a risk of penetration of lubricant into the skin exists. Product can compose a film on the water surface, which can prevent oxygen exchange. Endangerment of potable water possible.

SECTION 3: Composition/information on ingredients

Mineral oil raffinate Additives **3.1 Substance**

n.a. **3.2 Mixture**

01-2119480132-48-XXXX
649-469-00-9
265-159-2
64742-56-9
50-75
Asp. Tox. 1, H304



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Distillates (petroleum), hydrotreated light naphthenic	
Registration number (REACH)	01-2119480375-34-XXXX
Index	649-466-00-2
EINECS, ELINCS, NLP	265-156-6
CAS	64742-53-6
content %	10-25
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated middle	
Registration number (REACH)	
Index	649-221-00-X
EINECS, ELINCS, NLP	265-148-2
CAS	64742-46-7
content %	<10,5

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-	
Pr) esters, zinc salts	
Registration number (REACH)	01-2119521201-61-XXXX
Index	
EINECS, ELINCS, NLP	288-917-4
CAS	85940-28-9
content %	<2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Aquatic Chronic 2, H411
	· ·
(7)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	
Registration number (REACH)	01-2119488991-20-XXXX
Index	
EINECS, ELINCS, NLP	203-749-3
CAS	110-25-8
content %	<0,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Acute Tox. 4, H332
	Aquatic Acute 1, H400 (M=1)

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

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

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Remove person from danger area.

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.

Unsuitable cleaning product:

Solvent

Thinners

In case of skin injury by high pressure, a risk of penetration of lubricant into the skin exists.

Immediate admittance to a hospital.

Eye contact

Remove contact lenses.



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

Ingestion

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Rinse the mouth thoroughly with water. Do not induce vomiting - give copious water to drink. Consult doctor immediately. Danger of aspiration. In case of vomiting, keep head low so that the stomach content does not reach the lungs. Immediate admittance to a hospital.

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. Eye contact: Temporary irritation With long-term contact: Drying of the skin. Dermatitis (skin inflammation) Oil acne On vapour formation: Irritation of the respiratory tract Ingestion: Gastrointestinal disturbances Nausea

Vomiting Danger of aspiration. Oedema of the lungs Chemical pneumonitis (condition similar to pneumonia) **4.3 Indication of any immediate medical attention and special treatment needed**

Gastric lavage (stomach washing) only under endotracheal intubation. Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2 Foam Extinction powder **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 phosphorus Oxides of sulphur Metal oxides Flammable vapour/air mixtures

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. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke. Ensure sufficient supply of air. Avoid formation of oil mist.



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Avoid contact with eyes or skin.

If applicable, caution - risk of slipping. 6.2 Environmental precautions

If leakage occurs, dam up.

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Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Oil binder

Do not wash away with water or watery cleaning agents.

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

Avoid formation of oil mist.

Ensure good ventilation. Keep away from sources of ignition - Do not smoke.

Do not heat to temperatures close to flash point.

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.

Use working methods according to operating instructions.

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

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Under all circumstances prevent penetration into the soil.

Protect from direct sunlight and warming.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental							
	compartment							
	Environment - freshwater		PNEC	0,002	mg/l			
	Environment - marine		PNEC	0	mg/l			



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	Environment - water, sporadic (intermittent) release		PNEC	0,02	mg/l
	Environment - sediment, marine		PNEC	1,93	mg/kg dry weight
	Environment - soil		PNEC	15,7	mg/kg dry weight
	Environment - sewage treatment plant		PNEC	100	mg/Ĩ
	Environment - sediment, freshwater		PNEC	19,3	mg/kg dw
Consumer	Human - oral	Long term, systemic effects	DNEL	0,19	mg/kg bw/day
Consumer	Human - dermal	Long term, systemic effects	DNEL	4,8	mg/kg bw/day
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,67	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	9,6	mg/kg bw/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	6,6	mg/m3

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,43	mg/l	
	Environment - marine		PNEC	0,043	mg/l	
	Environment - sporadic (intermittent) release		PNEC	13	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Consumer	Human - oral	Short term, systemic effects	DNEL	92	mg/kg bw/d	
Consumer	Human - inhalation Long term, syste effects		DNEL	0,1	mg/m3	
Consumer	Human - inhalation	Human - inhalation Long term, local effects DNEL		0,005	mg/m3	
Consumer	Human - inhalation	Short term, systemic DNEL effects		9	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	9	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Consumer	Human - dermal Short term, systemic D effects		DNEL	50	mg/kg bw/d	
Workers / employees	ployees Human - inhalation Long term, systemic effects		DNEL	0,2	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,01	mg/m3	
Workers / employees	ployees Human - inhalation Short term, systemic effects		DNEL	18	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	18	mg/m3	
Workers / employees	ees Human - dermal Long term, systemic Deffects		DNEL	10	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	100	mg/kg bw/d	

8.2 Exposure controls8.2.1 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.



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Applies only if maximum permissible exposure values are listed here.

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 with side protection (EN 166).

Skin protection - Hand protection: Protective gloves, oil resistant (EN 374). Recommended Protective nitrile gloves (EN 374). Minimum layer thickness in mm: 0,35 Permeation time (penetration time) in minutes: > 240 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

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 A2 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 yellow
Odour:	Mineral oil
Odour threshold:	Not determined
pH-value:	n.a.
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	>150 °C (Cleveland, open cup)
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined



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Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties:

9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

Not determined Not determined <1 g/cm3 (15°C) n.a. Not determined Insoluble Not determined Not determined Not determined 16 mm2/s (40°C) Product is not explosive. No

Not determined Not determined Not determined Not determined Not determined

SECTION 10: Stability and reactivity

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. Heating, open flame, ignition sources **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 decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification). Zentralhydraulik-Oel 2300 1 L Art.: 3665 Toxicity / 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 n.d.a. single exposure (STOT-SE): Specific target organ toxicity n.d.a. repeated exposure (STOT-RE): Aspiration hazard: n.d.a.



n.d.a.

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Symptoms:

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,53	mg/l	Rat	OECD 403 (Acute Inhalation Toxicity)	Mist
Skin corrosion/irritation:				Rabbit	,	Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Germ cell mutagenicity:				Mammalian	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:				Mouse		Female, Negative
Reproductive toxicity:	NOAEL	>2000	mg/kg bw/d	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	
Reproductive toxicity:	NOAEL	>1000	mg/kg bw/d	Rat	OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	
Aspiration hazard:					,	Yes
Symptoms:						drying of the skin., vomiting, nausea

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Analogous conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Analogous conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Aspiration hazard:						Yes
Distillatos (notroloum) hudrotr						
Distillates (petroleum), hydrotr Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes



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Skin corrosion/irritation:			Repeated
			exposure may
			cause skin
			dryness or
			cracking.
Aspiration hazard:			Yes
Symptoms:			vomiting, skin
			afflictions

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	3000	mg/kg	Rat				
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute			
					Dermal Toxicity)			
Skin corrosion/irritation:				Rabbit		Skin Irrit. 2		
Serious eye damage/irritation:				Rabbit		Eye Irrit. 2		

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	> 5000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	
Acute toxicity, by inhalation:	LC50	1,8	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Risk of serious damage to eyes.
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising
Symptoms:						respiratory distress, diarrhoea, cornea opacity, mucous membrane irritation

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).								
Zentralhydraulik-Oel 2300 1 L								
Art.: 3665								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:							n.d.a.	
12.1. Toxicity to daphnia:							n.d.a.	
12.1. Toxicity to algae:							n.d.a.	
12.2. Persistence and							Isolate as much	
degradability:							as possible with	
							an oil separator.	
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								
12.6. Other adverse							n.d.a.	
effects:								
Distillates (petroleum), s	Distillates (petroleum), solvent-dewaxed light paraffinic							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	



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12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EL50	48h	>10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	LL50	48h	>1000	mg/l	Gammarus sp.	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inherent
12.3. Bioaccumulative potential:	Log Pow		>3				Low
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Distillates (petroleum), h	Distillates (petroleum), hydrotreated light naphthenic						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.2. Persistence and		28d	31	%	activated sludge	OECD 301 F	Not readily but
degradability:						(Ready	inherent
						Biodegradability - Manometric	biodegradable., Mechanical
						Respirometry Test)	precipitation
						Respironetry rest)	possible.
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Pimephales	OECD 203 (Fish,	possible.
	2000	0011	100	iiig/i	promelas	Acute Toxicity	
					F	Test)	
12.1. Toxicity to daphnia:	EC50	48h	>10000	mg/l	Daphnia magna	OECD 202	
				_		(Daphnia sp.	
						Acute	
						Immobilisation	
					D	Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition Test)	
12.5. Results of PBT						Testy	No PBT
and vPvB assessment							substance, No
							vPvB substance
Water solubility:							Insoluble
		1					
Distillates (petroleum), hydrotreated middle							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and							Readily
degradability:							biodegradable
Phosphorodithioic acid,	mixed O O-bis/2	-othylboxy	l and iso_P	u and isor Pr	ostors zinc salts		
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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(GB)·

12.2. Persistence and		28d	1,5	%		OECD 301 B	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.1. Toxicity to fish:	NOEC/NOEL	96h	1,8	mg/l	Oncorhynchus	OECD 203 (Fish,	Analogous
					mykiss	Acute Toxicity	conclusion
						Test)	
12.1. Toxicity to fish:	LC50	96h	4,5	mg/l	Oncorhynchus	OECD 203 (Fish,	Analogous
					mykiss	Acute Toxicity	conclusion
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	5,4	mg/l	Daphnia magna	OECD 202	Analogous
						(Daphnia sp.	conclusion
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	48h	<1	mg/l	Daphnia magna	OECD 202	Analogous
						(Daphnia sp.	conclusion
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	LC50	96h	2,1	mg/l	Selenastrum	OECD 201 (Alga,	Analogous
					capricornutum	Growth Inhibition	conclusion
						Test)	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	9,3	mg/l	Leuciscus idus	Regulation (EC) 440/2008 C.1 (ACUTE TOXICITY FOR FISH)	
12.1. Toxicity to daphnia:	EC50	48h	0,1-1	mg/l			
12.1. Toxicity to daphnia:	EC50	48h	0,43	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	6,3	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	
12.2. Persistence and degradability:		28d	85	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
Toxicity to bacteria:	EC50	3h	1300	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	BOD		1840	mg/g			

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.



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Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 13 01 10 mineral based non-chlorinated hydraulic oils Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. Implement substance recycling. E.g. suitable incineration plant.

For contaminated packing material

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Pay attention to local and national official regulations. 15 01 02 plastic packaging 15 01 04 metallic packaging Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements	
14.1. UN number:	n.a.
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Classification code:	n.a.
LQ:	n.a.
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	
Transport by sea (IMDG-code)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Marine Pollutant:	n.a
14.5. Environmental hazards:	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	••
Laless specified etherwise, general measures for sofe transpe	where the fellowed

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions: Comply with trade association/occupational health regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 2, These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

2, 3, 8, 9, 11, 12, 16



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Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Asp. Tox. 1, H304	Classification according to calculation procedure.

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). H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. Asp. Tox. - Aspiration hazard Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation Aquatic Chronic - Hazardous to the aquatic environment - chronic Eye Dam. — Serious eye damage Acute Tox. - Acute toxicity - inhalation Aquatic Acute - Hazardous to the aquatic environment - acute Any abbreviations and acronyms used in this document: acc., acc. to according, according to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BSEF The International Bromine Council bw body weight CAS Chemical Abstracts Service Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CI P and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level dry weight dw for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EC European Community ECHA European Chemicals Agency EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances **ELINCS** European List of Notified Chemical Substances ΕN European Norms EPA United States Environmental Protection Agency (United States of America) et cetera etc. FU **European Union** EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general gen.



ആ Page 15 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.06.2020 / 0008 Replacing version dated / version: 12.07.2019 / 0007 Valid from: 22.06.2020 PDF print date: 23.06.2020 Zentralhydraulik-Oel 2300 1 L Art.: 3665 Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential International Agency for Research on Cancer IARC IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. IUCLID International Uniform Chemical Information Database LQ Limited Quantities International Convention for the Prevention of Marine Pollution from Ships MARPOL n.a. not applicable n.av. not available not checked n.c. no data available n.d.a. OECD Organisation for Economic Co-operation and Development org. organic PBT persistent, bioaccumulative and toxic PE Polyethylene PNEC Predicted No Effect Concentration parts per million ppm PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List REACH-IT List-No. 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) SVHC Substances of Very High Concern Tel. Telephone UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative wwt wet weight 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.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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