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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 22.06.2020 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 Zentralhydraulik-Oel 2300 Central Hydraulic System Oil 2300

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 Central Hydraulic System Oil 2300

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

Hydraulic oil

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

(GB)

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:

(GB)

Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

Telephone number of the company in case of emergencies:

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

+1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)
Hazard class Hazard category Hazard statement

Asp. Tox. 1 H304-May be fatal if swallowed and enters airways.

2.2 Label elements

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



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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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

Mineral oil raffinate

Additives 3.1 Substances

3.2 Mixtures

Distillates (petroleum), solvent-dewaxed light paraffinic	
Registration number (REACH)	01-2119480132-48-XXXX
Index	649-469-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	265-159-2
CAS	64742-56-9
content %	50-75
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304

Distillates (petroleum), hydrotreated light naphthenic	
Registration number (REACH)	01-2119480375-34-XXXX
Index	649-466-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	265-156-6
CAS	64742-53-6
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304

Distillates (petroleum), hydrotreated middle	
Registration number (REACH)	
Index	649-221-00-X
EINECS, ELINCS, NLP, REACH-IT List-No.	265-148-2
CAS	64742-46-7



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content %	<10,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Asp. Tox. 1, H304

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and isobutyl and	
isopropyl) esters, zinc salts	
Registration number (REACH)	01-2119521201-61-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	288-917-4
CAS	85940-28-9
content %	<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Aquatic Chronic 2, H411

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	
Registration number (REACH)	01-2119488991-20-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	203-749-3
CAS	110-25-8
content %	<0,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H332
	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Aquatic Acute 1, H400 (M=1)
Specific Concentration Limits and ATE	ATE (as inhalation, Dusts or mist): 1,8 mg/l/4h
	ATE (as inhalation, Vapours): 11 mg/l/4h

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.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

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

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.

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

Ingestion

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.



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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 sulphur

Metal oxides

Oxides of phosphorus

Toxic pyrolysis products.

Flammable vapour/air mixtures

5.3 Advice for firefighters

For personal protective equipment see Section 8.

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

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.



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Avoid formation of oil mist. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

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.

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.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

©B Chemical Name Oil mist, mineral		
WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal	WEL-STEL:	
working fluids, ACGIH)		



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Monitoring procedures:	-	Draeger - Oil Mist 1/a (67 33 031)		
BMGV:			Other information:	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental compartment					
	Environment - oral (animal feed)		PNEC	9,33	mg/kg feed	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,19	mg/m3	·
Consumer	Human - oral	Long term, systemic effects	DNEL	0,74	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,73	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,58	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,97	mg/kg bw/dav	-

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - oral (animal feed)		PNEC	9,33	mg/kg	
Industrial	Human - dermal	Long term, systemic effects	DNEL	0,97	mg/kg	
Industrial	Human - inhalation	Long term, systemic effects	DNEL	2,73	mg/m3	
Industrial	Human - inhalation	Long term, local effects	DNEL	5,58	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,74	mg/kg	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,002	mg/l	
	Environment - marine		PNEC	0	mg/l	
	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/l	
	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	



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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, systemic effects	DNEL	0,1	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,005	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	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 effects	DNEL	50	mg/kg bw/d	
Workers / employees	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	Human - inhalation	Short term, systemic effects	DNEL	18	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	18	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	10	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	100	mg/kg bw/d	

- United Kingdom | WEL-TWA = Workplace Exposure Limit Long-term exposure limit 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE).
- | WEL-STEL = Workplace Exposure Limit Short-term exposure limit 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |
- | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE).

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.



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

investigative techniques.

These are specified by e.g. EN 14042.

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 with side protection (EN 166).

Skin protection - Hand protection:

Protective gloves, oil resistant (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 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

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

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

Melting point/freezing point: There is no information available on this parameter.

Boiling point or initial boiling point and boiling range:

There is no information available on this parameter.

Flammability: Flammable

Lower explosion limit:

Upper explosion limit:

There is no information available on this parameter.

There is no information available on this parameter.



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Central Hydraulic System Oil 2300

Flash point:

Auto-ignition temperature:

Decomposition temperature:

pH:

Kinematic viscosity:

Solubility:

Partition coefficient n-octanol/water (log value):

Vapour pressure:

Density and/or relative density:

Relative vapour density:

Particle characteristics: **9.2 Other information**

Explosives:

Oxidising liquids: Bulk density:

>150 °C (Cleveland, open cup)

There is no information available on this parameter. There is no information available on this parameter.

Mixture is non-soluble (in water).

16 mm2/s (40°C)

Insoluble

Does not apply to mixtures.

There is no information available on this parameter.

<1 g/cm3 (15°C)

There is no information available on this parameter.

Does not apply to liquids.

Product is not explosive.

No n.a.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Zentralnydraulik-Oei 2300	200					
Central Hydraulic System Oil 2: 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.
Symptoms:						n.d.a.

Distillates (petroleum), solvent-dewaxed light paraffinic



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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/4h	Rat	OECD 403 (Acute	Aerosol
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
-					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	_
Germ cell mutagenicity:				Mammalian	OECD 474 (Mammalian	Negative
					Erythrocyte	_
					Micronucleus Test)	
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	Chinese hamster
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	_
					Mutation Test)	
Reproductive toxicity:	NOAEL	>1000	mg/kg	Rat	OECD 421	Negative
			bw/d		(Reproduction/Developm	_
					ental Toxicity Screening	
					Test)	
Reproductive toxicity:	NOAEL	>2000	mg/kg	Rat	OECD 414 (Prenatal	
-			bw/d		Developmental Toxicity	
					Study)	
Aspiration hazard:						Yes
Symptoms:						drying of the
						skin., vomiting,
						nausea

Distillates (petroleum), hydroti	eated light na	phthenic				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Analogous
					Toxicity)	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	Aerosol,
					Inhalation Toxicity)	Analogous
						conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact),
						Analogous
						conclusion
Aspiration hazard:						Yes

Distillates (petroleum), hydrotro	eated middle					
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 isobutyl and isopropyl) 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	

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	Aerosol
					Inhalation Toxicity)	
Acute toxicity, by inhalation:	ATE	11	mg/l/4h			Vapours
Acute toxicity, by inhalation:	ATE	1,8	mg/l/4h			Dusts or mist
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Risk of serious
-					Irritation/Corrosion)	damage to eyes.
Respiratory or skin				Guinea pig	·	Not sensitizising
sensitisation:						
Symptoms:						respiratory
						distress,
						diarrhoea,
						cornea opacity,
						mucous
						membrane
						irritation

11.2. Information on other hazards

Zentralhydraulik-Oel 2300						
Central Hydraulic System Oil 23	300					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply
						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

SECTION 12: Ecological information

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

Zentralhydraulik-Oel 230	00						
Central Hydraulic Syster	m Oil 2300						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.



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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. Endocrine	Does not apply
disrupting properties:	to mixtures.
12.7. Other adverse	No information
effects:	available on
	other adverse
	effects on the
	environment.

Complete	oxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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) OECD 202 (Daphnia sp. Acute Immobilisation Test) 12.1. Toxicity to daphnia: NOEC/NOEL 12.1. Toxicity to daphnia: NOEC/NOEL 72h >100 mg/l Daphnia magna Reproduction Test) OECD 201 (Daphnia magna Reproduction Test) OECD 201 (Daphnia magna Reproduction Test) OECD 201 (Alga, Growth Inhibition Test) 12.2. Persistence and degradability: 12.3. Bioaccumulative Log Pow >3 Lo	2.1. Toxicity to fish:	LL50	96h	>100	mg/l	Pimephales	OECD 203 (Fish,	
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) OECD 202 (Daphnia sp. Acute Immobilisation Test) 12.1. Toxicity to daphnia: NOEC/NOEL 21d 10 mg/l Daphnia magna Reproduction Test) OECD 211 (Daphnia magna Reproduction Test) OECD 201 (Alga, Growth Inhibition Test) 12.1. Toxicity to algae: NOEC/NOEL 72h >100 mg/l Pseudokirchneriell a subcapitata Growth Inhibition Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) 12.3. Bioaccumulative Log Pow > 3						promelas	Acute Toxicity	
Complete								
12.1. Toxicity to daphnia: LL50	2.1. Toxicity to daphnia:	EL50	48h	>10000	mg/l	Daphnia magna	OECD 202	
12.1. Toxicity to daphnia: LL50							`	
12.1. Toxicity to daphnia: LL50 48h >1000 mg/l Gammarus sp. OECD 202 (Daphnia sp. Acute Immobilisation Test) 12.1. Toxicity to daphnia: NOEC/NOEL 12 d 10 mg/l Daphnia magna Reproduction Test) 12.1. Toxicity to algae: NOEC/NOEL 72h >100 mg/l Pseudokirchneriell a subcapitata Growth Inhibition Test) 12.2. Persistence and degradability: 12.3. Bioaccumulative Log Pow Test) 10 Acute Immobilisation Test) Daphnia magna Reproduction Test) OECD 211 (Daphnia magna Reproduction Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)								
12.1. Toxicity to daphnia: LL50 48h >1000 mg/l Gammarus sp. OECD 202 (Daphnia sp. Acute Immobilisation Test) 12.1. Toxicity to daphnia: NOEC/NOEL 12.1. Toxicity to algae: NOEC/NOEL 72h >100 mg/l Daphnia magna Reproduction Test) OECD 211 (Daphnia magna Reproduction Test) OECD 201 (Alga, Growth Inhibition Test) 12.2. Persistence and degradability: 12.3. Bioaccumulative Log Pow Ash Acute Immobilisation Test) OECD 211 (Daphnia magna Reproduction Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)								
(Daphnia sp. Acute Immobilisation Test) 12.1. Toxicity to daphnia: NOEC/NOEL 21d 10 mg/l Daphnia magna OECD 211 (Daphnia magna Reproduction Test) 12.1. Toxicity to algae: NOEC/NOEL 72h >100 mg/l Pseudokirchneriell a subcapitata Growth Inhibition Test) 12.2. Persistence and degradability: 28d 31 % activated sludge OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) 12.3. Bioaccumulative Log Pow >3								
Acute Immobilisation Test) 12.1. Toxicity to daphnia: NOEC/NOEL 21d 10 mg/l Daphnia magna OECD 211 (Daphnia magna Reproduction Test) 12.1. Toxicity to algae: NOEC/NOEL 72h >100 mg/l Pseudokirchneriell a subcapitata Growth Inhibition Test) 12.2. Persistence and degradability: 0ECD 301 F (Ready Biodegradability - Manometric Respirometry Test) 12.3. Bioaccumulative Log Pow >3	2.1. Toxicity to daphnia:	LL50	48h	>1000	mg/l	Gammarus sp.		
12.1. Toxicity to daphnia: NOEC/NOEL 21d 10 mg/l Daphnia magna OECD 211 (Daphnia magna Reproduction Test)							`	
12.1. Toxicity to daphnia: NOEC/NOEL 21d 10 mg/l Daphnia magna OECD 211 (Daphnia magna Reproduction Test) 12.1. Toxicity to algae: NOEC/NOEL 72h >100 mg/l Pseudokirchneriell a subcapitata Growth Inhibition Test) 12.2. Persistence and degradability: 28d 31 % activated sludge OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) 12.3. Bioaccumulative Log Pow >3								
12.1. Toxicity to daphnia: NOEC/NOEL 21d 10 mg/l Daphnia magna OECD 211 (Daphnia magna Reproduction Test) 12.1. Toxicity to algae: NOEC/NOEL 72h >100 mg/l Pseudokirchneriell a subcapitata Growth Inhibition Test) 12.2. Persistence and degradability: 0ECD 301 F (Ready Biodegradability - Manometric Respirometry Test) 12.3. Bioaccumulative Log Pow >3								
12.1. Toxicity to algae: NOEC/NOEL 72h >100 mg/l Pseudokirchneriell a subcapitata OECD 201 (Alga, Growth Inhibition Test)								
12.1. Toxicity to algae: NOEC/NOEL NOEC/NO	2.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna		
12.1. Toxicity to algae: NOEC/NOEL 72h >100 mg/l Pseudokirchneriell a subcapitata Growth Inhibition Test) 12.2. Persistence and degradability: 28d 31 % activated sludge OECD 201 (Alga, Growth Inhibition Test) OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)								
a subcapitata Growth Inhibition Test) 12.2. Persistence and degradability: 28d 31 % activated sludge OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) 12.3. Bioaccumulative Log Pow >3								
12.2. Persistence and degradability: 28d 31 31 31 31 31 32d 31 31 32d 31 31 32d 32d	2.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l			
12.2. Persistence and degradability: 28d 31 % activated sludge OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) 12.3. Bioaccumulative Log Pow >3 Log Pow Log Pow Log Pow DECD 301 F (Ready Biodegradability - Manometric Respirometry Test) Log Pow Log Pow Activated sludge OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)						a subcapitata		
degradability: (Ready Biodegradability - Manometric Respirometry Test) 12.3. Bioaccumulative Log Pow >3				<u> </u>				
Biodegradability - Manometric Respirometry Test) 12.3. Bioaccumulative Log Pow >3			28d	31	%	activated sludge		Inherent
Manometric Respirometry Test) 12.3. Bioaccumulative Log Pow >3	egradability:						,	
Respirometry Test) 12.3. Bioaccumulative Log Pow >3								
12.3. Bioaccumulative Log Pow >3 Lo								
1-101-101101111111111111111111111111111	0.0.0	L D					Respirometry Test)	1
DOMEDITAL:		Log Pow		>3				Low
								No PBT
								_
	nu vevb assessment							substance, No vPvB substan

Distillates (petroleum), hydrotreated light naphthenic									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)			
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)			
12.1. Toxicity to daphnia:	EC50	48h	>10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)			



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12.1. Toxicity to algae:	NOEC/NOEL	72h	> 100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	>1000	mg/l	Scenedesmus subspicatus	,	
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:			6	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.2. Persistence and degradability:		28d	31	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily but inherent biodegradable., Mechanical precipitation possible.
12.3. Bioaccumulative potential:							Not to be expected
12.4. Mobility in soil:	Log Pow		3,9-6				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Water solubility:							Insoluble

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-ethylhexyl and isobutyl and isopropyl) esters, zinc salts								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
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)		
12.2. Persistence and		28d	1,5	%		OECD 301 B	Not readily	
degradability:						(Ready	biodegradable	
						Biodegradability -		
						Co2 Evolution		
						Test)		

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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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		Ozidation))	

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.

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

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

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):

14.4. Packing group:

Not applicable

Not applicable

Not applicable



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14.5. Environmental hazards:Not applicableTunnel restriction code:Not applicableClassification code:Not applicableLQ:Not applicableTransport category:Not applicable

Transport by sea (IMDG-code)

14.1. UN number or ID number:

Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS:Not applicable

Transport by air (IATA)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicable

14.6. Special precautions for user

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

14.7. Maritime transport in bulk according to IMO instruments

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.

Directive 2010/75/EU (VOC):

0 %

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1-16

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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	Evaluation method used
(EC) No. 1272/2008 (CLP)	
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.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.



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H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard Skin Irrit. — Skin irritation

Eye Irrit. — Eye irritation

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - inhalation Eye Dam. — Serious eye damage

Aguatic Acute — Hazardous to the aguatic environment - acute

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

according, according to acc., acc. to

Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road)

AOXAdsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

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)

BCF Bioconcentration factor

BSEF The International Bromine Council

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

Dissolved organic carbon DOC

for example (abbreviation of Latin 'exempli gratia'), for instance e.g.

EbCx, EyCx, EbLx (x = 10, 50)Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC **European Community**

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

European Economic Community EEC

European Inventory of Existing Commercial Chemical Substances **EINECS**

ELINCS European List of Notified Chemical Substances

ΕN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, $E\mu Cx$, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

et cetera etc.

EU European Union

EVAL Ethylene-vinyl alcohol copolymer



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Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight

n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

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. 6/7/8/9xx-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.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

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

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