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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.05.2018 / 0011
 Replacing version dated / version: 27.06.2016 / 0010
 Valid from: 28.05.2018
 PDF print date: 28.05.2018
 Langzeit-Motoröl Truck FE 5W-30 60 L
 Art.: 2311

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
Langzeit-Motoröl Truck FE 5W-30 60 L
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1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the substance or mixture:

- Motor oil
- Sector of use (SU):
- SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
- SUZ1 - Consumer uses: Private households (=general public = consumers)
- SUZ2 - 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 8a - Widespread use of functional fluid (indoor)
- ERC 8b - 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, Germany
 Phone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

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

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

Telephone number of the company in case of emergencies:
 +49 (0) 700 / 24 112 112 (LMF)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

EUH208-Contains C14-16-18 Alkylphenol. May produce an allergic reaction.
 EUH210-Safety data sheet available on request.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).
 The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).
 Product can compose a film on the water surface, which can prevent oxygen exchange.
 Hazardous to drinking water, on escape of even small quantities.

SECTION 3: Composition/information on ingredients

3.1 Substance

3.2 Mixture

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	01-2119474889-13-XXXX
Registration number (REACH)	649-483-00-5
Index	276-738-4
EINECS, ELINCS, NLP	72623-87-1
CAS	30-50
content %	Asp. Tox. 1, H304
Classification according to Regulation (EC) 1272/2008 (CLP)	

1-decene, trimers, hydrogenated	
Registration number (REACH)	01-2119493949-12-XXXX
Index	---
EINECS, ELINCS, NLP	500-393-3 (NLP)
CAS	157707-86-3
content %	10-20
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	Substance with specific conc. limit(s) acc. to REACH-
Registration number (REACH)	01-2119543726-33-XXXX
Index	---
EINECS, ELINCS, NLP	9819-94-4
CAS	1-5-2,5
content %	Skin Irrit. 2, H315
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Dam. 1, H318
	Aquatic Chronic 2, H411

C14-16-18 Alkylphenol	
Registration number (REACH)	01-2119498288-19-XXXX
Index	---
EINECS, ELINCS, NLP	931-468-2 (REACH-IT List-No.)
CAS	---
content %	0,1--2,5

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Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Sens. 1B, H317 STOT RE 2, H373 (liver)
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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

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:

Solvents
 Thinners

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. Consult doctor immediately.

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.

The following may occur:

Irritation of the eyes

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

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2

Foam

Dry extinguisher

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

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Oxides of nitrogen
Oxides of sulphur
Oxides of phosphorus
Toxic gases
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

Ensure sufficient supply of air.

Avoid formation of oil mist

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

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 feedstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Impermeable floor.

Protect against moisture and store closed.

Protect from direct sunlight and warming.

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7.3 Specific end uses(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Oil mist, mineral	Content %
WEL-TWA: 5 mg/m ³ (ACGIH)	WEL-STEL: 10 mg/m ³ (ACGIH)	---
Monitoring procedures:		
	- Draeger - Oil 10/a-P (67 28 37 1)	
	- Draeger - Oil Mist 1/a (67 33 03 1)	
BMGV: ---	Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40, AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (2017/164/EU), (9) = Respirable fraction (2017/164/EU), | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
 (8) = Inhalable fraction (2017/164/EU), (9) = Respirable fraction (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, BGMV = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma, SK = Can be absorbed through skin, Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

Area of application	Exposure route / Environmental compartment	Effect on health		Value	Unit	Note
		Exposure route / Environmental compartment	Effect on health			
Consumer	Environment - freshwater	PNEC	9.33	mg/kg feed		
	Environment - marine	PNEC	1.2	mg/m ³	24h	
	Environment - sediment, freshwater	PNEC	5.4	mg/m ³	8h	
	Environment - sediment, marine	PNEC				
Workers / employees	Environment - sewage treatment plant	PNEC	100	mg/l		
	Environment - soil	PNEC	0.00528	mg/kg		
	Environment - oral (animal feed)	PNEC	10.87	mg/kg		
	Environment - water, sporadic (intermittent) release	PNEC	21	µg/l		
Consumer	Human - inhalation				Long term, systemic effects	
Consumer	Human - dermal				Long term, systemic effects	
Consumer	Human - oral				Long term, systemic effects	
Workers / employees	Human - inhalation				Long term, systemic effects	

Area of application	Exposure route / Environmental compartment	Effect on health		Value	Unit	Note
		Exposure route / Environmental compartment	Effect on health			
Consumer	Environment - freshwater	PNEC	0.004	mg/l		
	Environment - marine	PNEC	0.0046	mg/l		
	Environment - sediment, freshwater	PNEC	0.0116	mg/kg		
	Environment - sediment, marine	PNEC	0.00116	mg/kg		
Workers / employees	Environment - sewage treatment plant	PNEC	100	mg/l		
	Environment - soil	PNEC	0.00528	mg/kg		
	Environment - oral (animal feed)	PNEC	10.87	mg/kg		
	Environment - water, sporadic (intermittent) release	PNEC	21	µg/l		
Consumer	Human - inhalation				Long term, systemic effects	
Consumer	Human - dermal				Long term, systemic effects	
Consumer	Human - oral				Long term, systemic effects	
Workers / employees	Human - inhalation				Long term, systemic effects	

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Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0.58	mg/kg
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8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.
 BS EN 14042 "Workplace atmospheres, Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

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

Skin protection - Hand protection:

Protective gloves, oil resistant (EN 374)

If applicable

Protective nitrile gloves (EN 374)

Permeation time (penetration time) in minutes:

>480

Minimum layer thickness in mm:

0,45

Protective hand cream recommended.

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.

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 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

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Physical state:	Liquid
Colour:	Brown
Characteristic Odour:	Characteristic
Odour threshold:	Not determined
pH value:	n.a.
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	224 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,860 g/ml
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	73.2 mm ² /s (40°C) 12.2 mm ² /s (100°C)
Explosive properties:	No
Oxidising properties:	Not determined
9.2 Other information	Not determined
Miscibility / solvent:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

Not to be expected

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

Heating, open flame, ignition sources
 Protect from humidity.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

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).

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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.

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Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based						
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	>5,93	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:					OECD 451 (Carcinogenicity Studies)	Negative
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity:					OECD 421 (Reproduction/Developmental Toxicity Screening Test)	Negative
Aspiration hazard:						Asp. Tox. 1

1-decene, trimers, hydrogenated						
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	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,2	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant

Respiratory or skin sensitisation:		Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Zinc bis[O-(6-methylheptyl) bis(O-sec-butyl) bis(dithiophosphate)]				
Acute toxicity, by oral route:	LD50	mg/kg	Test method	Notes
Acute toxicity, by dermal route:	LD50	mg/kg	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	mg/l/h	OECD 403 (Acute Inhalation Toxicity)	Male
Skin corrosion/irritation:		%	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2, Analogous conclusion
Serious eye damage/irritation:		h		Eye Dam. 1, Analogous conclusion ¹⁶
Respiratory or skin sensitisation:			OECD 406 (Skin Sensitisation)	CFR 1500.42 No (skin contact)
Germ cell mutagenicity:			OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Germ cell mutagenicity:			OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Reproductive toxicity (Developmental toxicity):	NOAEL	mg/kg	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development, Screening Test)	Analogous conclusion, Negative
C14-16-18-Alkylphenol				
Acute toxicity, by oral route:	LD50	mg/kg	Test method	Notes
Acute toxicity, by dermal route:	LD50	mg/kg	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Skin corrosion/irritation:			OECD 402 (Acute Dermal Toxicity)	
Serious eye damage/irritation:			OECD 439 (In Vitro Skin Irritation - Reconstructed Human Epidermis Test Method)	Not irritant
Respiratory or skin sensitisation:			OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
			OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Sensitising

SECTION 12: Ecological information

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

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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 degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.

12.5. Results of PBT and vPvB assessment:							n.d.a.
12.6. Other adverse effects:							n.d.a.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based							
12.1. Toxicity to fish:	NOEC/NOEL	96h	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	> 100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	EL50	48h	> 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:	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	Pseudokirchneriella subcapitata	OECD 207 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EL50	48h	>100	mg/l	Pseudokirchneriella subcapitata	OECD 207 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	46	%		OECD 307 B (Ready Biodegradability - Co2 Evolution Test)	
12.3. Bioaccumulative potential:	Log Kow		4, 1				A notable biological accumulation potential has to be expected (LogPow > 3). No PBT substance. No vPvB substance
12.5. Results of PBT and vPvB assessment:							
Toxicity to bacteria:	NOEC/NOEL	10min	>1.93	mg/l		DIN 38412 T.8	
1-decane trimers, hydrogenated							
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOELR	21d	125	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Mysidopsis bahia	OECD 202 (Daphnia sp, Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l			
12.1. Toxicity to algae:	NOELR	21d	125	mg/l			
12.1. Toxicity to algae:	NOELR	72h	1000	mg/l	Selenastrum capricornutum	OECD 207 (Alga, Growth Inhibition Test)	

12.2. Persistence and degradability.					Not readily biodegradable
12.3. Bioaccumulative potential.	BCF	>10			
12.5. Results of PBT and vPvB assessment					No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	1000	mg/l	activated sludge

Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)					
Toxicity / effect	Endpoint	Time	Value	Unit	Notes
12.1. Toxicity to fish:	LC50	96h	4,5	mg/l	OECD 203 (Fish, Acute Toxicity Test)
12.1. Toxicity to daphnia:	EL50	48h	5,4	mg/l	OECD 202 (Daphnia sp. Acute Immobilisation Test)
12.1. Toxicity to algae:	EC50	96h	2,1	mg/l	OECD 201 (Alga, Growth Inhibition Test)
12.2. Persistence and degradability:		28d	1,5	%	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)
12.3. Bioaccumulative potential:	Log Pow		0,59-1,2		OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)
12.5. Results of PBT and vPvB assessment					No PBT substance, No vPvB substance
Toxicity to bacteria:			10	mg/l	activated sludge

C14-16-18 Alkylphenol					
Toxicity / effect	Endpoint	Time	Value	Unit	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	OECD 203 (Fish, Acute Toxicity Test)
12.1. Toxicity to daphnia:	EC50	24h	>100	mg/l	OECD 202 (Daphnia sp. Acute Immobilisation Test)
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	OECD 201 (Alga, Growth Inhibition Test)

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 02 05 mineral-based non-chlorinated engine, gear and lubricating oils
 Recommendation:
 Sewage disposal shall be discouraged.
 Pay attention to local and national official regulations.
 E.g. dispose at suitable refuse site.
 E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.
 15 01 01 paper and cardboard packaging
 15 01 02 plastic packaging
 15 01 04 metallic packaging
 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: n.a.
 14.3. Transport hazard class(es): n.a.
 14.4. Packing group: n.a.
 Classification code: n.a.
 LQ:
 14.5. Environmental hazards: Not applicable
 Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name: n.a.
 14.3. Transport hazard class(es): n.a.
 14.4. Packing group: n.a.
 Marine Pollutant: Not applicable
 14.5. Environmental hazards:

Transport by air (IATA)

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

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:
 General hygiene measures for the handling of chemicals are applicable.
 Directive 2010/75/EU (VOC): 0 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3, 4, 8, 11, 12, 15

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

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

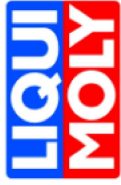
H317 May cause an allergic skin reaction.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H411 Toxic to aquatic life with long lasting effects.

Asp. Tox. — Aspiration hazard
 Skin Irrit. — Skin irritation
 Eye Dam. — Serious eye damage
 Aquatic Chronic — Hazardous to the aquatic environment - chronic
 Skin Sens. — Skin sensitization
 STOT RE — Specific target organ toxicity - repeated exposure

Any abbreviations and acronyms used in this document:

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

EEA European Economic Area
 EEC European Economic Community
 EINECS European Inventory of Existing Commercial Chemical Substances
 ELINCS European List of Notified Chemical Substances
 EN European Norms
 EPA United States Environmental Protection Agency (United States of America)
 ERC Environmental Release Categories
 ES Exposure scenario
 etc. et cetera
 EU European Union
 EWC European Waste Catalogue
 Fax, Fax number
 gen. general
 GHS Globally Harmonized System of Classification and Labelling of Chemicals
 GWP Global warming potential
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane
 HGWP Halocarbon Global Warming Potential
 IARC International Agency for Research on Cancer
 IATA International Air Transport Association
 IBC Intermediate Bulk Container
 IBC (Code) International Bulk Chemical (Code)
 IC Inhibitory concentration
 IMDG-code International Maritime Code for Dangerous Goods
 incl. including, inclusive
 IUCLID International Uniform Chemical Information Database
 LC lethal concentration
 LC50 lethal concentration 50 percent kill
 LCLo lowest published lethal concentration
 LD Lethal Dose of a chemical
 LD50 Lethal Dose, 50% kill
 LDLo Lethal Dose, Low
 LOAEL Lowest Observed Adverse Effect Level
 LOEC Lowest Observed Effect Concentration
 LOEL Lowest Observed Effect Level
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships
 n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available
 NIOSH National Institute of Occupational Safety and Health (United States of America)
 NOAEC No Observed Adverse Effective Concentration
 NOAEL No Observed Adverse Effect Level
 NOEC No Observed Effect Concentration
 NOEL No Observed Effect Level
 ODP Ozone Depletion Potential
 OECD Organisation for Economic Co-operation and Development
 org. organic
 PAH polycyclic aromatic hydrocarbon
 PBT persistent, bioaccumulative and toxic
 PC Chemical product category
 PE Polyethylene
 PNEC Predicted No Effect Concentration
 POCP Photochemical ozone creation potential
 ppm parts per million
 PROC Process category
 PTFE Polytetrafluorethylene
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
 REACH-T List-No. 8xx-xxxx 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-T.
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)



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SADT Self-Accelerating Decomposition Temperature
SAR Structure Activity Relationship
SU Sector of use
SVHC Substances of Very High Concern
Tel Telephone
TPOD Theoretical oxygen demand
TOC Total organic carbon
TRGS Technische Regeln für Gefahrstoffe (= Technical Regulations for Hazardous Substances)
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK),
WHO World Health Organization
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:

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