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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**
Servolenkungsoel-Verlust-Stop 35 mL
Art.: 1099
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Relevant identified uses of the substance or mixture:

- 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 (LMR)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture**
Classification according to Regulation (EC) 1272/2008 (CLP)
Hazard class Aquatic Chronic 3
Hazard category H412-Harmful to aquatic life with long lasting effects.

- 2.2 Label elements**
Labeling according to Regulation (EC) 1272/2008 (CLP)
 H412-Harmful to aquatic life with long lasting effects.
 P273-Avoid release to the environment.
 P501-Dispose of contents / container to an approved waste disposal facility.
 EUH208-Contains 1,3,4-thiadiazole-2(3H)-thione, 5-(tert-dodecylthio)-. May produce an allergic reaction.

- 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 %).

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The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
 Product can compose a film on the water surface, which can prevent oxygen exchange.

SECTION 3: Composition/information on ingredients

- 3.1 Substance**
 n.a.
- 3.2 Mixture**

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	20-240
content %	Asp. Tox. 1, H304
Classification according to Regulation (EC) 1272/2008 (CLP)	

Distillates (petroleum), solvent-dewaxed light paraffinic	01-2119480132-48-XXXX
Registration number (REACH)	649-468-00-9
Index	265-159-2
EINECS, ELINCS, NLP	64742-56-9
CAS	10-220
content %	Asp. Tox. 1, H304
Classification according to Regulation (EC) 1272/2008 (CLP)	

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich	01-2119869520-35-XXXX
Registration number (REACH)	***
Index	800-172-4 (REACH-IT List-No.)
EINECS, ELINCS, NLP	398141-87-2
CAS	5-10
content %	Aquatic Chronic 2, H411
Classification according to Regulation (EC) 1272/2008 (CLP)	

Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)proprionate	01-0000015551-76-XXXX
Registration number (REACH)	607-530-00-7
Index	406-040-9
EINECS, ELINCS, NLP	125643-61-0
CAS	1-10
content %	Aquatic Chronic 4, H413
Classification according to Regulation (EC) 1272/2008 (CLP)	

Methacrylate copolymer (Conf0551)	***
Registration number (REACH)	***
Index	***
EINECS, ELINCS, NLP	***
CAS	1-10
content %	Eye Irrit. 2, H319
Classification according to Regulation (EC) 1272/2008 (CLP)	

2,2'-(C16-18 (evennumbered), C18 unsaturated) alkyl imino diethanol	01-2119510877-33-XXXX
Registration number (REACH)	***
Index	620-540-6 (REACH-IT List-No.)
EINECS, ELINCS, NLP	1218787-32-6
CAS	0,1-1<
content %	

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Classification according to Regulation (EC) 1272/2008 (CLP)	
1,3,4-thiadiazole-2(1H)-thione, 5-(tert-dodecylidithio)-	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)
Registration number (REACH)	01-2120761104-64-XXXX
Index	---
EINECS, ELINCS, NLP	813-543-0 (REACH-IT List-No.)
CAS	73984-93-7
content %	0,01-1
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Sens. 1B, H317 Aquatic Chronic 3, H412
3-(C9-11-iso, C10-ricin)alkoxy)propan-1-amine	
Registration number (REACH)	01-2119974116-35-XXXX
Index	---
EINECS, ELINCS, NLP	939-485-7 (REACH-IT List-No.)
CAS	218141-16-3
content %	0,01-0,25
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=1)

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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.

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.

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

The following may occur:
 Irritation of the skin.
 Symptomatic treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

Foam

Dry extinguisher

Water jet spray

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

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.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure good ventilation.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

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) and dispose of according to Section 13.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or 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.

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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.
 Store in a dry place.

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 (Mineral oil, excluding metal working fluids, ACGIH)	WEL-STEL: ---	---
Monitoring procedures:	- Draeger - Oil 10/a-P (67 28 371) - Draeger - Oil Mist 1/a (67 33 031)	
BMGV: ---	Other information: ---	

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral		PNEC	9,33	mg/kg feed	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m ³	24h
	Human - inhalation	Long term, local effects	DNEL	5,4	mg/m ³	8h

Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	233	mg/kg	
	Environment - sediment, marine		PNEC	23,3	mg/kg	
	Environment - soil		PNEC	189	mg/kg	
	Environment - freshwater		PNEC	0,0043	mg/kg	
	Environment - marine		PNEC	0,00043	mg/kg	
	Human - dermal	Long term, systemic effects	DNEL	0,25	mg/kg	
	Human - oral	Long term, local effects	DNEL	0,25	mg/kg	
	Human - dermal	Long term, systemic effects	DNEL	0,22	mg/kg	
	Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3,5	mg/m ³
Workers / employees	Human - dermal	Short term, local effects	DNEL	1	mg/cm ²	
	Human - dermal	Long term, local effects	DNEL	0,008	mg/cm ²	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	20	mg/kg	
	Human - dermal	Long term, systemic effects	DNEL	20	mg/kg	

Thiophene, tetrahydro-, 1,1-dioxide, 3-((9-11 branched alkyloxy) derivs., C10-rich	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note

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Environment - freshwater	PNEC	2,4	µg/l			
1,3,4-thiadiazole-2(3H)-thione, 5-(tert-dodecylidithio)-	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,04	mg/l	
	Human - oral	Long term, systemic effects	DNEL	0,42	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,42	mg/kg bw/day	
	Human - dermal	Long term, systemic effects	DNEL	0,83	mg/kg bw/day	

Environment - freshwater	PNEC	0,21	µg/l			
2,2'-(C16:18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,21	µg/l	
	Human - dermal	Long term, systemic effects	DNEL	0,21	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,21	mg/kg bw/d	
	Human - dermal	Long term, systemic effects	DNEL	0,3	mg/kg bw/d	

Environment - oral (animal feed)	PNEC	9,33	mg/kg			
Distillates (petroleum), hydrotreated heavy paraffinic	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - oral (animal feed)		PNEC	9,33	mg/kg	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40, AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU), (9) = Respirable fraction (2017/164/EU, 2017/2398/EU), | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU), (9) = Respirable fraction (2017/164/EU, 2017/2398/EU), (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40, BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma, Sk = Can be absorbed through skin, Carc = Capable of causing cancer and/or veniable genetic damage.
 ** = The exposure limit for this substance is repeated through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

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

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedstuffs.

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

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

Skin protection - Hand protection:
 Protective nitrile gloves (EN 374).
 Permeation time (penetration time) in minutes:
 > 480
 Minimum layer thickness in mm:
 0,4

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:
 If OES or MEL is exceeded,
 Filter A 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

Physical state: Liquid
Colour: Brown
Characteristic Odour: Not determined
Odour threshold: Not determined
pH-value: Not determined
Melting point/freezing point: Not determined
Initial boiling point and boiling range: Not determined
Flash point: >100 °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): 0,888 g/ml
Density: Not determined
Bulk density: Not determined
Solubility(ies): Insoluble
Water solubility: Not determined
Partition coefficient (n-octanol/water): Not determined
Auto-ignition temperature: Not determined
Decomposition temperature: 166 mm2/s (40°C)
Viscosity:

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Viscosity: 25 mm2/s (100°C)
 Explosive properties: Not determined
 Oxidising properties: Not determined

9.2 Other information

Miscibility: Not determined
Fat solubility / solvent: Not determined
Conductivity: Not determined
Surface tension: Not determined
Solvents content: Not determined

SECTION 10: Stability and reactivity

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

Hazardous reactions will not occur during storage and handling under normal conditions.

10.4 Conditions to avoid

Protect from humidity.

Open flame, ignition sources

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.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						Based on available data, the classification criteria are not met.
Germ cell mutagenicity:						Classification based on toxicological analyses.
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.

Other information:	Classification according to calculation procedure.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	
Acute toxicity, by oral route:	LD50 >5000 mg/kg
Acute toxicity, by dermal route:	LD50 >5000 mg/kg
Acute toxicity, by inhalation:	LC50 >5.53 mg/l/4h
Skin corrosion/irritation:	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:	OECD 405 (Acute Eye Irritation/Corrosion)
Respiratory or skin sensitisation:	OECD 406 (Skin Sensitisation)
Germ cell mutagenicity:	OECD 471 (Bacterial Reverse Mutation Test)
Carcinogenicity:	OECD 451 (Carcinogenicity Studies)
Carcinogenicity:	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)
Reproductive toxicity:	OECD 414 (Prenatal Developmental Toxicity Study)
Reproductive toxicity:	OECD 421 (Reproduction/Developmental Toxicity Screening Test)
Aspiration hazard:	Asp. Tox. 1

Disillates (petroleum), solvent-dewaxed light paraffinic	Notes
Acute toxicity, by oral route:	LD50 >5000 mg/kg
Acute toxicity, by dermal route:	LD50 >5000 mg/kg
Acute toxicity, by inhalation:	LC50 >5.53 mg/l
Skin corrosion/irritation:	Not irritant
Serious eye damage/irritation:	Not irritant
Respiratory or skin sensitisation:	No (skin contact)
Germ cell mutagenicity:	OECD 474 (Mammalian Erythrocyte Micronucleus Test)
Germ cell mutagenicity:	OECD 471 (Bacterial Reverse Mutation Test)
Germ cell mutagenicity:	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)

Germ cell mutagenicity:	Notes
Carcinogenicity:	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)
Reproductive toxicity:	OECD 414 (Prenatal Developmental Toxicity Study)
Reproductive toxicity:	OECD 421 (Reproduction/Developmental Toxicity Screening Test)
Aspiration hazard:	Yes
Symptoms:	drying of the skin, vomiting, nausea

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyl/oxyl) derivs., C10-rich	Notes
Acute toxicity, by oral route:	LD50 >10000 mg/kg
Acute toxicity, by dermal route:	LD50 >2000 mg/kg
Skin corrosion/irritation:	Not irritant
Serious eye damage/irritation:	Not irritant
Respiratory or skin sensitisation:	No (skin contact)
Germ cell mutagenicity:	OECD 406 (Skin Sensitisation)
Germ cell mutagenicity:	OECD 471 (Bacterial Reverse Mutation Test)
Germ cell mutagenicity:	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)
Reproductive toxicity:	OECD 421 (Reproduction/Developmental Toxicity Screening Test)
Symptoms:	headaches, dizziness, nausea, mental confusion, drowsiness, drowsiness

Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propanoate	Notes
Acute toxicity, by oral route:	LD50 > 2000 mg/kg
Acute toxicity, by dermal route:	LD50 > 2000 mg/kg
Skin corrosion/irritation:	Not irritant
Serious eye damage/irritation:	Not irritant
Respiratory or skin sensitisation:	No (skin contact)
Germ cell mutagenicity:	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)
Germ cell mutagenicity:	OECD 471 (Bacterial Reverse Mutation Test)
Carcinogenicity:	Negative

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Aspiration hazard:				Negative	
Methacrylate copolymer (Conf0551)					
Toxicity / effect	Endpoint	Value	Unit	Organism	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	Analogous conclusion
Serious eye damage/irritation:		>=75	%	Guinea pig	Eye Irrit. 2
Respiratory or skin sensitisation:					No (skin contact), Analogous conclusion
Germ cell mutagenicity:					Negative, Analogous conclusion
2,2'-(C16-18 (evennumbered, C18 unsaturated) alky imino) diethanol					
Toxicity / effect	Endpoint	Value	Unit	Organism	Notes
Acute toxicity, by oral route:	LD50	1500	mg/kg	Rat	OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure)
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)
1,3,4-thiazole-2(3H)-thione, 5-(tert-dodecylidithio)-					
Toxicity / effect	Endpoint	Value	Unit	Organism	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)
Reproductive toxicity:	NOEL	1000	mg/kg bw/d	Rat	OECD 421 (Reproduction/Developmental Toxicity Screening Test)
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	200	mg/kg	Rat	OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
3-(CS-11-iso, C10-rich)alkyloxypropan-1-amine					
Toxicity / effect	Endpoint	Value	Unit	Organism	Notes
Acute toxicity, by oral route:	LD50	300-2000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)

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Skin corrosion/irritation:				Rabbit		OECD 404 (Acute Dermal Irritation/Corrosion)		Skin Corr. 1B	
SECTION 12: Ecological information									
Possibly more information on environmental effects, see Section 2.1 (classification).									
Servolenkungsoel-Verlust-Stop 35 mL									
Art.: 1099									
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:							Mechanical precipitation possible, 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									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to fish:	NOEC/NOEL	96h	>=100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity 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:	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 201 (Alga, Growth Inhibition Test)			
12.1. Toxicity to algae:	EL50	48h	>100	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)			
12.2. Persistence and degradability:		28d	46	%		OECD 301 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).		
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance		
Toxicity to bacteria:	NOEC/NOEL	10min	>1,93	mg/l		DIN 38412 T:8			

Distillates (petroleum), solvent-dewaxed light paraffinic							
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)	
12.1. 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	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inherent
12.3. Bioaccumulative potential:	Log Pow		>3				Low

Thiophene, tetrahydro-, 1,1-dioxide, 3-(3,9,11 branched alkyloxy) derivs., C10-rich							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2,4	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	4,6	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	63	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,313	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	9,6	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF		27,54				measured
12.3. Bioaccumulative potential:	Log Kow		4,1			OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method)	measured
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>74	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>=1	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	>3	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	4	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		9,2				Low
12.3. Bioaccumulative potential:	BCF	35d	260			OECD 305 (Bioconcentration - Flow-Through Fish Test)	Concentration in organisms possible.

2,2'-C16-18 (evennumbered, C18 unsaturated) alkyl(imino) diethanol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to daphnia:	EC10	21d	0,0107	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion
12.1. Toxicity to fish:	LC50	96h	0,1	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	0,043	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	0,0638	mg/l	Pseudokirchneriella subcapitata	ILCLUD Chem Data Sheet (ESIS)	Analogous conclusion
12.2. Persistence and degradability:		28d	63	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable, Analogous conclusion calculated
12.3. Bioaccumulative potential:	BCF		110,2				
Toxicity to bacteria:	EC50	3h	167	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other information:	Log Kow		3,6				

1,3,4-thiadiazole-2(3H)-thione, 5-(tert-dodecylthio)-

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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12.1. Toxicity to fish:	LC50	96h	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EL50	48h	41	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to algae:	EL50	72h	>100	Pseudokirchneriella subcapitata	OECD 201 (Alga Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	0	activated sludge	OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Not readily biodegradable
Toxicity to bacteria:	EC50	16h	>8000	Pseudomonas putida	DIN 38412 T.8	Analogous conclusion

3-(C9-11-iso, C10-rich)alkyloxypropan-1-amine	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2,14	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC10	21d	0,738	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	0,082	µg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	68	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.1. Toxicity to daphnia:	EC50	21d	1,09	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction 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.

Empty container completely.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Uncontaminated packaging can be recycled.

SECTION 14: Transport information

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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: Not applicable

14.5. Environmental hazards: Not applicable

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: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name: n.a.

14.3. Transport hazard class(es): n.a.

14.4. Packing group: Not applicable

14.5. Environmental hazards: Not applicable

LQ: 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:

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

7,5 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2, 3, 8, 11, 12

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

(EC) No. 1272/2008 (CLP)

Aquatic Chronic 3, H412

Evaluation method used

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).

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.
 Aquatic Chronic — Hazardous to the aquatic environment - chronic
 Asp. Tox. — Aspiration hazard
 Eye Irrit. — Eye irritation
 Acute Tox. — Acute toxicity - oral
 Skin Corr. — Skin corrosion
 Eye Dam. — Serious eye damage
 Aquatic Acute — Hazardous to the aquatic environment - acute
 Skin Sens. — Skin sensitization

Any abbreviations and acronyms used in this document:

acc., acc. to according to
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
 AOX Adsorbable organic halogen compounds
 approx. approximately
 Art., Art. no. Article number
 ASTM ASTM International (American Society for Testing and Materials)
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
 BfArM Bundesanstalt für Arzneimittel und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
 BSEF The International Bromine Council
 bw body weight
 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
 dw dry weight
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
 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
 EN European Norms
 EPA United States Environmental Protection Agency (United States of America)
 etc. et cetera
 EU European Union
 EVAL Ethylene-vinyl alcohol copolymer
 Fax. Fax number
 gen. general
 GHS Globally Harmonized System of Classification and Labelling of Chemicals
 GWP Global warming potential
 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
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships

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n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available
 OECD Organisation for Economic Co-operation and Development
 org. organic
 PBT persistent, bioaccumulative and toxic
 PE Polyethylene
 PNEC Predicted No Effect Concentration
 ppm parts per million
 PVC Polyvinylchloride
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
 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
 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:
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