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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** 

(GB)

## Leaf-spring/Pinion Lubricant S452 500 ml Art.: 6500 5775, Art.: 6504 5775

**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

Theo Förch GmbH & Co. KG Theo-Förch-Str. 11 – 15 74196 Neuenstadt Tel.: 07139/95-0 Fax: 07139/95-199 Email: info@foerch.de Homepage: www.foerch.com

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

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 (TFC)

**SECTION 2: Hazards identification** 

	of the substance or mix ording to Regulation (E	
Hazard class	Hazard category	Hazard statement
Skin Irrit.	2	H315-Causes skin irritation.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container: May burst if heated.

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



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H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves.

P312-Call a POISON CENTRE / doctor if you feel unwell.

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Without adequate ventilation, formation of explosive mixtures may be possible. Acetone Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C9, aromatics

#### 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**

Aerosol

#### 3.1 Substances

#### n.a. 3.2 Mixtures

Dimethyl ether	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119472128-37-XXXX
Index	603-019-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	204-065-8
CAS	115-10-6
content %	20-<40
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Gas 1A, H220
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Registration number (REACH)	01-2119475514-35-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	921-024-6
CAS	
content %	20-<30
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225
	Skin Irrit. 2, H315
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411
Hydrocarbons, C9, aromatics	



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Registration number (REACH)	01-2119455851-35-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-668-5
CAS	(64742-95-6)
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Flam. Liq. 3, H226
	STOT SE 3, H335
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

Acetone	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119471330-49-XXXX
Index	606-001-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	200-662-2
CAS	67-64-1
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Flam. Liq. 2, H225
	Eye Irrit. 2, H319
	STOT SE 3, H336

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119463258-33-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	919-857-5
CAS	
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Flam. Liq. 3, H226
	STOT SE 3, H336
	Asp. Tox. 1, H304

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.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

## **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.

If the person is unconscious, place in a stable side position and consult a doctor.

#### 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

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.



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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. The following may occur: Irritation of the eyes with long-term contact: Drying of the skin. Dermatitis (skin inflammation) At high concentrations: Irritation of the respiratory tract Coughing Dizziness Headaches Effect on the central nervous system Coordination disorders Unconsciousness Ingestion of large quantities: Headaches Nausea Vomiting Danger of aspiration. Other dangerous properties cannot be ruled out. 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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media Suitable extinguishing media

Water jet spray/foam/CO2/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

#### Toxic pyrolysis products.

Danger of bursting (explosion) when heated Explosive vapour/air or gas/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. 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.



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## 6.2 Environmental precautions

Prevent surface and ground-water infiltration, as well as ground penetration. Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous. If accidental entry into drainage system occurs, inform responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available. Without adequate ventilation, formation of explosive mixtures may be possible. Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) 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 inhalation of the vapours. Keep away from sources of ignition - Do not smoke.

Do not use on hot surfaces.

Avoid contact with eyes or skin.

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.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells. Do not store with oxidizing agents.

Observe special regulations for aerosols!

Observe special storage conditions.

Observe special storage conditions.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well ventilated place.

## 7.3 Specific end use(s)

No information available at present.

**SECTION 8: Exposure controls/personal protection** 

## 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 600 mg/m3

Chemical Name	Dimethyl ether		
WEL-TWA: 400 ppm (766 mg/m3)	(WEL), 1000 ppm WEL-STEL:	500 ppm (958 mg/m3) (WEL)	
(1920 mg/m3) (EU)			
Monitoring procedures:	- Compur - KITA	-123 S (549 129)	
BMGV:		Other information:	
Chemical Name	Hydrocarbons, C6-C7, n-alkanes	, isoalkanes, cyclics, <5% n-hexane	
WEL-TWA: 600 mg/m3	WEL-STEL:		
Monitoring procedures:	- Compur - KITA	-187 S (551 174)	
BMGV:		Other information: (C	EL acc. to RCP-method,
		paragraphs 84-87, EH	40)



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Chemical Name	Hydrocarbons, C			
WEL-TWA: 500 mg/m3 (Aromatics	)	WEL-STEL:		
Monitoring procedures:	-	Draeger - Hydrocarbons 0		
	-	Draeger - Hydrocarbons 2		
	-	Compur - KITA-187 S (55		
BMGV:			Other information: -	
B Chemical Name	Acetone			
WEL-TWA: 500 ppm (1210 mg/m3	) (WEL, EU)	WEL-STEL: 1500 ppr	n (3620 mg/m3) (WEL)	
Monitoring procedures:	-	Draeger - Acetone 100/b (	CH 22 901)	
	-	Draeger - Acetone 40/a (5	) (81 03 381)	
	-	Compur - KITA-102 SA (5	48 534)	
	-	Compur - KITA-102 SC (5	48 550)	
	-	Compur - KITA-102 SD (5		
		INSHT MTA/MA-031/A96	(Determination of ketones (aceto	one, methyl ethyl ketone,
			air - Charcoal tube method / Gas	
	-		2/000/2002-16 card 67-1 (2004)	3 (p ))
			c compounds in air – Laboratory	method using pumped solid
	-		sorption and gas chromatograph	
	-	NIOSH 1300 (KETONES I		<b>) ) ) )</b>
	-		ORGANIC COMPOUNDS (SCR	EENING)) - 1996
	-	NIOSH 2555 (KETONES I		
			AND INORGANIC GASES BY EX	TRACTIVE FTIR
	-	SPECTROMETRY) - 2016		
	-	OSHA 69 (Acetone) - 198		
BMGV:			Other information: -	
Chemical Name	Hydrocarbons C	9-C11, n-alkanes, isoalkan	es cyclics <2% aromatics	
WEL-TWA: 800 mg/m3		WEL-STEL:		
Monitoring procedures:	-	Draeger - Hydrocarbons 0	.1%/c (81 03 571)	
31	-	Draeger - Hydrocarbons 2		
	-	Compur - KITA-187 S (55		
BMGV:		l v		OEL acc. to RCP-method.
			paragraphs 84-87, EF	140)
Chemical Name	Asphalt			•
WEL-TWA: 5 mg/m3 (Asphalt, petr		WEL-STEL: 10 mg/m	3 (Asphalt, petroleum fumes)	
Monitoring procedures:				1
BMGV:				

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,155	mg/l	
	Environment - sediment,		PNEC	0,681	mg/kg	
	freshwater					
	Environment - soil		PNEC	0,045	mg/kg	
	Environment - sewage		PNEC	160	mg/l	
	treatment plant					
	Environment - marine		PNEC	0,016	mg/l	
	Environment - water,		PNEC	1,549	mg/l	
	sporadic (intermittent)				-	
	release					
	Environment - sediment,		PNEC	0,069	mg/kg	
	marine					
Consumer	Human - inhalation	Long term, systemic	DNEL	471	mg/m3	
		effects			-	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	1894	mg/m3	
		effects				

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane							
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note	
	Environmental						
	compartment						



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Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	

Hydrocarbons, C9, aromatics						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, systemic effects	DNEL	32	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	11	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	11	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	25	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	150	mg/m3	

Acetone						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - marine		PNEC	1,06	mg/l	Assesmen factor 500
	Environment - freshwater		PNEC	10,6	mg/l	Assesmen factor 50
	Environment - sediment, freshwater		PNEC	30,4	mg/kg dw	
	Environment - sediment, marine		PNEC	3,04	mg/kg dw	
	Environment - soil		PNEC	29,5	mg/kg dw	
	Environment - sewage treatment plant		PNEC	19,5	mg/l	
	Environment - sporadic (intermittent) release		PNEC	21	mg/l	Assesmen factor 100
Consumer	Human - oral	Long term, systemic effects	DNEL	62	mg/kg bw/day	Overall assesmen factor 2
Consumer	Human - dermal	Long term, systemic effects	DNEL	62	mg/kg bw/day	Overall assesmen factor 20
Consumer	Human - inhalation	Long term, systemic effects	DNEL	200	mg/m3	Overall assesmen factor 5
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	186	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	2420	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1210	mg/m3	

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics



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Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	900	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	125	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	185	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	125	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1500	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	208	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	871	mg/m3	

Asphalt											
Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note					
	compartment										
Consumer	Human - inhalation	Long term, local effects	DNEL	0,6	mg/m3						
Workers / employees	Human - inhalation	Long term, local effects	DNEL	2,9	mg/m3						

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 (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 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 (Directive 2004/37/CE). | 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 heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 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.

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



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Skin protection - Hand protection: Solvent resistant protective gloves (EN ISO 374). Recommended Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: >= 0,4 Permeation time (penetration time) in minutes: > 240 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: Solvent resistant protection clothing (EN 13034)

Respiratory protection: Normally not necessary. If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white In case of emergency: Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138) Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

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Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

	• • • • • • • • • • • • •
Physical state:	Aerosol. Active substance: liquid.
Colour:	Black
Odour:	Characteristic
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:	Does not apply to aerosols.
Lower explosion limit:	0.6 Vol-%
Upper explosion limit:	18,6 Vol-%
Flash point:	Does not apply to aerosols.
Auto-ignition temperature:	235 °C
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	Does not apply to aerosols.
Solubility:	Not miscible
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	3000 hPa (20°C)
Density and/or relative density:	0,83 g/ml (Active substance)
Density and/or relative density:	0,77 g/cm3 (20°C)
Relative vapour density:	Does not apply to aerosols.
Particle characteristics:	Does not apply to aerosols.
9.2 Other information	
Explosives:	Product is not explosive. When using: development of explosive vapour/air mixture possible.



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Oxidising liquids: Solvents content:

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There is no information available on this parameter. 71,83 % (Organic solvents )

## **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

Heating, open flame, ignition sources Pressure increase will result in danger of bursting.

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

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

Foxicity / 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:						Yes
Symptoms:						n.d.a.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	164	mg/l/4h	Rat		
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Respiratory or skin						No (skin contact)
sensitisation:						
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 477 (Genetic	Negative
					Toxicology - Sex-Linked	
					Recessive Lethal Test	
					in Drosophilia	
					melanogaster)	



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Carcinogenicity:	NOAEC	47000	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAEL	5000	ppm	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEC	47106	mg/kg	Rat	OECD 452 (Chronic Toxicity Studies)	Negative(2 a)
Aspiration hazard:						No
Symptoms:						unconsciousness , headaches, mucous membrane irritation, dizziness, nausea and vomiting., frostbite, gastrointestinal disturbances, respiratory distress, circulatory collapse

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	>2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>20	mg/l/4h	Rat	OECD 403 (Acute	
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Mild irritant
					Irritation/Corrosion)	(Analogous
						conclusion)
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation:					Sensitisation)	
Carcinogenicity:						Negative
Reproductive toxicity:					OECD 414 (Prenatal	Analogous
					Developmental Toxicity	conclusion,
					Study)	Negative
Specific target organ toxicity -						STOT SE 3,
single exposure (STOT-SE):						H336
Specific target organ toxicity -						Negative
repeated exposure (STOT-RE):						
Aspiration hazard:						Yes
Symptoms:						drowsiness,
						unconsciousnes
						3
						heart/circulatory
						disorders,
						headaches,
						cramps,
						drowsiness,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.



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Specific target organ toxicity - single exposure (STOT-SE), inhalative:	Not irritant (respiratory tract).
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Hydrocarbons, C9, aromatics Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3492	mg/kg	Rat	OECD 401 (Acute Oral	Notes
Acute toxicity, by oral route.	LD50	3492	ing/kg	Ral		
		. 0400		D. L. L'I	Toxicity)	
Acute toxicity, by dermal route:	LD50	>3160	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,693	mg/l/4h	Rat	OECD 403 (Acute	Analogous
					Inhalation Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	> 6,193	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Skin corrosion/irritation:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
Skin conosion/initiation.				Rabbit	Dermal	Notimiant
<u> </u>					Irritation/Corrosion)	<b>N</b> <i>I I I I</i>
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:					OECD 475 (Mammalian	Negative
0,					Bone Marrow	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
cerni cen matagemony.					Mammalian Cell Gene	Negative
					Mutation Test)	
Corm coll mutagonicity						Negative
Germ cell mutagenicity:					OECD 479 (Genetic	Negative
					Toxicology - In Vitro	
					Sister Chromatid	
					Exchange assay in	
					Mammalian Cells)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous
						conclusion
Carcinogenicity:						Negative
Reproductive toxicity:				Rat	OECD 421	Negative,
					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusion
					Test)	
Reproductive toxicity:					OECD 414 (Prenatal	Negative
Reproductive textory.					Developmental Toxicity	liogaaro
					Study)	
Reproductive toxicity:					OECD 416 (Two-	Negative
neproductive toxicity.						negative
					generation	
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -						STOT SE 3,
single exposure (STOT-SE):						H335, STOT SE
						3, H336
Specific target organ toxicity -					OECD 408 (Repeated	Negative
repeated exposure (STOT-RE):					Dose 90-Day Oral	
,					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -					OECD 452 (Chronic	Negative
repeated exposure (STOT-RE):					Toxicity Studies)	. togulive
Aspiration hazard:						Yes
nopilation nazalu.	1					103



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Symptoms:		respiratory
		distress,
		coughing,
		burning of the
		membranes of
		the nose and
		throat,
		drowsiness,
		dizziness,
		headaches,
		nausea,
		unconsciousness
		, fever, ear
		noises, drying of
		the skin.

Acetone	- · · ·	N/ 1			<b>—</b> ( )	
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	5800	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>15800	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	76	mg/l/4h	Rat		
Skin corrosion/irritation:				Guinea pig		Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Symptoms:						unconsciousnes , vomiting, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Hydrocarbons, C9-C11, n-alkan	ies, isoalkane	s, cyclics, <2%	% aromatics			
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)	



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Acute toxicity, by inhalation:	LD50	>18,5	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	cracking. Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Rat	OECD 478 (Genetic Toxicology - Rodent dominant Lethal Test)	Negative, Analogous conclusion
Germ cell mutagenicity:					OECD 479 (Genetic Toxicology - In Vitro Sister Chromatid Exchange assay in Mammalian Cells)	Negative, Analogous conclusion Chinese hamste
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion
Carcinogenicity:	NOAEC	1100	mg/m3	Mouse	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Female
Carcinogenicity:	NOAEC	>= 2200	mg/m3	Mouse	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Male
Reproductive toxicity (Effects on fertility):	NOAEL	>= 3000	mg/kg bw/d	Rat	OECD 415 (One- Generation Reproduction Toxicity Study)	Male
Reproductive toxicity (Effects on fertility):	NOAEL	>= 1500	mg/kg bw/d	Rat	OECD 415 (One- Generation Reproduction Toxicity Study)	Female
Specific target organ toxicity - single exposure (STOT-SE):						May cause drowsiness or dizziness., STOT SE 3, H336
Aspiration hazard:						Yes
Symptoms:						unconsciousnes , headaches, dizziness, discoloration of the skin, vomiting, diarrhoea
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	3000	mg/kg/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Analogous conclusion



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Specific target organ toxicity -<br/>repeated exposure (STOT-RE),NOAEC1444ppmRatOECD 413 (Subchronic<br/>Inhalation Toxicity - 90-<br/>Day Study)Analogous<br/>conclusion

Asphalt						
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	> 2000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	> 94,4	mg/m3	Rat	OECD 403 (Acute	Analogous
					Inhalation Toxicity)	conclusion
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:					OECD 473 (In Vitro	Negative
					Mammalian	Chinese hamster
					Chromosome	
					Aberration Test)	
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 416 (Two-	
			bw/d		generation	
					Reproduction Toxicity	
					Study)	
Symptoms:						vomiting,
						mucous
						membrane
						irritation
Specific target organ toxicity -	NOAEL	> 2000	mg/kg	Rabbit	OECD 410 (Repeated	
repeated exposure (STOT-RE),			bw/d		Dose Dermal Toxicity -	
dermal:					90-Day)	

## 11.2. Information on other hazards

Leaf-spring/Pinion Lubricant S452 500 ml Art.: 6500 5775, Art.: 6504 5775											
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**

Leaf-spring/Pinion Lubri	cant S452									
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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							n.d.a.			
degradability:										
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										



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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.
Other information:		According to the
		recipe, contains
		no AOX.
Other information:		DOC-elimination
		degree(complexi
		ng organic
		substance)>=
		80%/28d: No

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC0	96h	2695	mg/l	Pimephales		
5				0	promelas		
12.1. Toxicity to fish:	LC50	96h	3082	mg/l	Salmo gairdneri		
12.1. Toxicity to fish:	LC50	96h	>4,1	mg/l	Poecilia reticulata		
12.1. Toxicity to daphnia:	EC50	48h	>4,4	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	96h	154,9	mg/l	Chlorella vulgaris		
12.2. Persistence and degradability:		28d	5	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		-0,07				Bioaccumulation is unlikely (LogPow < 1). 25°C (pH 7)
12.4. Mobility in soil:	H (Henry)		518,6	Pa*m3/m ol			No adsorption ir soil.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10		>1600	mg/l	Pseudomonas putida		
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.DIN EN 1485
Water solubility:			45,60	mg/l			25°C
Hudrosserbana CC C7 -	alkanaa jassi		aa (50/ m h	avana			
Hydrocarbons, C6-C7, n∙ Toxicity / effect	Endpoint	Time	CS, <5% n-n Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:		Time	Value		organishi		Concentration ir organisms

possible. 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: NOEC/NOEL 21d 0,17 mg/l Daphnia magna LOEC/LOEL Daphnia magna 21d 0,32 mg/l OECD 301 F 12.2. Persistence and 28d 98 % degradability: (Ready Biodegradability -Manometric Respirometry Test) 12.1. Toxicity to fish: NOEC/NOEL 28d 2,045 Oncorhynchus mg/l mykiss NOELR 28d 2,04 12.1. Toxicity to fish: mg/l Salmo gairdneri



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12.1. Toxicity to fish:	LC50	96h	11,4	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity	
					-	Test)	
12.1. Toxicity to fish:	LL50	96h	11,4	mg/l	Salmo gairdneri	OECD 203 (Fish,	
						Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	3	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
40.4 T 111 1 1 1 1		401				Test)	
12.1. Toxicity to daphnia:	NOELR	48h	2,1	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	30	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	81	%	activated sludge	OECD 301 F	Readily
degradability:						(Ready	biodegradable,
						Biodegradability -	Analogous
						Manometric	conclusion
						Respirometry Test)	
12.3. Bioaccumulative potential:	BCF		242-253				
12.4. Mobility in soil:							Adsorption in
							ground., Product
							is slightly volatile.
Other information:	AOX		0	%			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	9,2	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity	
10.4 Taulaituta dan baiau	5050	405	0.0		Denhais menue	Test) OECD 202	
2.1. Toxicity to daphnia:	EC50	48h	3,2	mg/l	Daphnia magna		
						(Daphnia sp.	
						Acute	
						Immobilisation	
	<b>F</b> 1 <b>F</b> 0					Test)	
12.1. Toxicity to algae:	ErL50	72h	2,9	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	54-56	%		OECD 301 B	
degradability:						(Ready	
						Biodegradability -	
						Co2 Evolution	
			_			Test)	
12.2. Persistence and		28d	78	%	activated sludge	OECD 301 E	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Modified OECD	
						Screening Test)	
12.2. Persistence and		28d	78	%		OECD 301 F	
degradability:						(Ready	
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative potential:	Log Pow		3,7 - 4,5				
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substanc

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Toxicity to bacteria:	EC50	10min	>99	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))
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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Other organisms:	EC5	72h	28	mg/l	Entosiphon		
					sulcatum		
12.1. Toxicity to fish:	EC50	96h	8300	mg/l	Lepomis		
					macrochirus		
12.1. Toxicity to fish:	LC50	96h	8300	mg/l	Lepomis		
					macrochirus		
12.1. Toxicity to fish:	LC50	96h	5540	mg/l	Oncorhynchus		
	1.050	0.01	7500		mykiss		
12.1. Toxicity to fish:	LC50	96h	7500	mg/l	Leuciscus idus		
12.1. Toxicity to daphnia:	EC50	48h	6100- 12700	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	EC50	48h	8800	mg/l	Daphnia pulex	OECD 202	
	2000		0000	ing/i		(Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	28d	2212	mg/l	Daphnia pulex	OECD 211	
				Ū		(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	NOEC/NOEL	8d	530	mg/l		DIN 38412 T.9	Test organism:
							M. aeruginosa
12.1. Toxicity to algae:	EC50	48h	4740	mg/l	Pseudokirchneriell		
					a subcapitata		
12.1. Toxicity to algae:	NOEC/NOEL	48h	3400	mg/l	Pseudokirchneriell a subcapitata		
12.2. Persistence and degradability:		28d	91	%		OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	Readily biodegradable
12.2. Persistence and degradability:		28d	91	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.2. Persistence and degradability:		30d	81-92	%		Regulation (EC) 440/2008 C.4-E (DETERMINATIO N OF 'READY' BIODEGRADABILI TY - CLOSED BOTTLE TEST)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		-0,24			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	
12.3. Bioaccumulative potential:	BCF		0,19			,	Low
12.4. Mobility in soil:							No adsorption i soil.
12.5. Results of PBT and vPvB assessment	<u> </u>						No PBT substance, No vPvB substanc



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Toxicity to bacteria:	EC10	30min	1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))
Toxicity to bacteria:	BOD/COD	16h	1700	mg/l	Pseudomonas putida	
Other information:	BOD5		1760- 1900	mg/g		
Other information:	AOX		0	%		
Other information:	COD		2070	mg/g		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to bacteria:	EL50	48h	0,95	mg/l			QSAR
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOELR	28d	0,13	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	ErC50	72h	>1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EbC50	72h	>1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOELR	72h	100	mg/l	Raphidocelis subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	80	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.1. Toxicity to algae:	NOELR	72h	3	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.3. Bioaccumulative potential:			5-6,7			,	High
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substanc

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	> 1000	mg/l	Oncorhynchus	QSAR	Analogous
					mykiss		conclusion
12.1. Toxicity to daphnia:	LL50	48h	> 1000	mg/l	Daphnia magna	QSAR	Analogous
				_			conclusion
12.1. Toxicity to algae: EL	EL50	72h	> 1000	mg/l	Pseudokirchneriell	QSAR	Analogous
					a subcapitata		conclusion
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.1. Toxicity to fish:	NOEC/NOEL	28d	>= 1000	mg/l	Oncorhynchus	QSAR	Analogous
-				_	mykiss		conclusion
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>= 1000	mg/l	Daphnia magna	QSAR	Analogous
-							conclusion



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12.2. Persistence and degradability:	Not biodegradable				
SECTION 13: Disposal considerations					
· · · · · · · · · · · · · · · · · · ·					
<ul> <li>13.1 Waste treatment methods</li> <li>For the substance / mixture / residual amounts</li> <li>EC disposal code no.:</li> <li>The waste codes are recommendations based on the scheduled use of this product.</li> <li>Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)</li> <li>13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils</li> <li>16 05 04 gases in pressure containers (including halons) containing hazardous substances</li> <li>Recommendation:</li> <li>Sewage disposal shall be discouraged.</li> <li>Pay attention to local and national official regulations.</li> <li>Take full aerosol cans to valuable material collection.</li> <li>For contaminated packing material</li> <li>Pay attention to local and national official regulations.</li> <li>15 01 04 metallic packaging</li> <li>15 01 10 packaging containing residues of or contaminated by hazardous substances</li> <li>Do not perforate, cut up or weld uncleaned container.</li> </ul>					
· ·	ansport information				
	•				
General statements 14.1. UN number or ID number: Transport by road/by rail (ADR/RID)	1950				
<ul> <li>14.2. UN proper shipping name:</li> <li>UN 1950 AEROSOLS</li> <li>14.3. Transport hazard class(es):</li> <li>14.4. Packing group:</li> <li>Classification code:</li> <li>LQ:</li> </ul>	2.1 - 5F 1 L				
14.5. Environmental hazards: Tunnel restriction code:	environmentally hazardous D				
Transport by sea (IMDG-code) 14.2. UN proper shipping name: AEROSOLS (HYDROCARBONS, C6-C7) 14.3. Transport hazard class(es): 14.4. Packing group: EmS: Marine Pollutant: 14.5. Environmental hazards: Transport by air (IATA)	2.1 - F-D, S-U Yes environmentally hazardous				
<ul><li>14.2. UN proper shipping name:</li><li>Aerosols, flammable</li><li>14.3. Transport hazard class(es):</li><li>14.4. Packing group:</li></ul>	2.1				
14.5. Environmental hazards:       Not applicable         14.6. Special precautions for user         Persons employed in transporting dangerous goods must be trained.         All persons involved in transporting must observe safety regulations.         Precautions must be taken to prevent damage.         14.7. Maritime transport in bulk according to IMO instruments         Freighted as packaged goods rather than in bulk, therefore not applicable.					
Minimum amount regulations have not been taken into account. Danger code and packing code on request. Comply with special provisions.					



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## **SECTION 15: Regulatory information**

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Regulation (EC) No 1907/2006, Annex XVII

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

For exceptions see Regulation (EU) 2019/1148 and guidelines for the implementation of Regulation (EU) 2019/1148.

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

	Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
	-		dangerous substances as	dangerous substances as
Ĺ			referred to in Article 3(10) for the	referred to in Article 3(10) for the
			application of - Lower-tier	application of - Upper-tier
			requirements	requirements
	E2		200	500
i.	P3a	11.1	150 (netto)	500 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

2

71,83 %

Revised sections:

Employee training in handling dangerous goods is required.

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)	Evaluation method used
Skin Irrit. 2, H315	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

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).

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.



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H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H220 Extremely flammable gas. EUH066 Repeated exposure may cause skin dryness or cracking.

Skin Irrit. — Skin irritation Asp. Tox. — Aspiration hazard STOT SE — Specific target organ toxicity - single exposure - narcotic effects Aquatic Chronic — Hazardous to the aquatic environment - chronic Aerosol — Aerosols Flam. Gas — Flammable gases - Flammable gas Flam. Liq. — Flammable liquid STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Eye Irrit. — Eye irritation

#### 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 amended. 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. S.C. Foerch S.R.L. Förch SAS Foerch AG ZAE Le Marchais Renard Str. Zizinului nr.110 Muttenzerstrasse 143 CS 50125 Montereau-sur-le-Jard 500407 Brasov 4133 Pratteln 77019 Melun Cedex Rumänien Schweiz Tel. +40 368 408192 Tel. +41 61 8262031 Frankreich Fax. +40 368 408193 Fax. +41 61 8262039 Tel. +33 1 64 14 48 48 Fax. +33 1 64 14 48 49 E-Mail: info@foerch.ro E-Mail: info@foerch.ch E-Mail: info@forch.fr Internet: www.foerch.ro Internet: www.foerch.ch Internet: www.forch.fr

Foerch Bulgaria EOOD 475 Botevgradsko Shose Blvd. BG 1517 Sofia, Bulgaria Tel. 00359 2 981 2841 Fax. 00359 982 10 30 86 E-Mail: info@foerch.bg

Förch Componentes para Taller S.L. Camino de San Antón. S/N 18102 Ambroz (Granada) Spanien Tel. +34 958 40 17 76 Fax. +34 958 40 17 87 E-Mail: info@forch.es Internet: www.forch.es

Förch d.o.o. Buzinska cesta 58 10010 Zagreb Kroatien Tel. +385 1 2912900 Fax. +385 1 2912901 E-Mail: info@foerch.hr internet: www.foerch.hr

Förch A/S Hagemannsvei 3 8600 Silkeborg Dänemark Tel. +45 86 823711 Fax. +45 86 800617 E-Mail: info@foerch.dk Internet: www.foerch.dk

Theo Förch GmbH Röcklbrunnstraße 39A 5020 Salzburg Österreich Tel. +43 662 875574-0 Fax +43 662 878677-21 Verkauf Tel. +43 662 875574-900 Verkauf Fax +43 662 875574-30 E-Mail: info@foerch.at Internet: www.foerch.at

Lhomme Tools & Fasteners BV Seinhuisstraat 5 B4 Poort 0331 3600 Genk Belgien Tel. +32 89 71 66 61 E-Mail: info@lhommetools.be Internet: www.lhommetools.be



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Ziebe Limited 7 Century Court, Westcott, Aylesbury, Bucks, HP18 0XP (UK) Grossbritannien Tel +44 12 96 65 52 82 E-Mail: sales@ziebe.co.uk Internet: www.ziebe.co.uk

(GB)

Förch Kereskedelmi Kft Börgöndi út 14 8000 Székesfehérvár Ungarn Tel. +36 22 348348 Fax. +36 22 348355 E-Mail: info@foerch.hu Internet: www.foerch.hu

AB varahlutir ehf Funahöfði 9 110 Reykjavík Tel. +354 567 6020 E-mail: ab@ab.is Internet: www.ab.is

Förch, s.r.o. Dopravní 1314/1 104 00 Praha 10 – Uhøínives Tschechien Tel. +420 271 001 984-9 E-Mail: info@foerch.cz Internet: www.foerch.cz

Troscoe Ltd Unit 6, 13 Highbrook Drive East Tamaki 2013, New Zealand Tel: +64 21 081 30780 / +64 21 024 05583 Email:sales@forchnz.co.nz Internet: www.forchnz.co.nz

Förch Otom.Ins.ve San.Ürün.Paz.Ltd.Sti. Haramidere Mevkii Beysan Sanayi Sitesi Birlik Caddesi No:6/3 34524 Beylikdüzü / Istanbul Türkei Tel. +90 (0)212 422 8744-45 Fax. +90 (0)212 422 8788 E-Mail: info@forch.com.tr Internet: www.forch.com.tr Förch Polska Sp. z.o.o Miêdzyrzecze Górne 379 43-392 K/Bielska-Bialej Polen Tel. +48 338196000 Fax. +48 338158548 E-Mail: info@forch.pl Internet: www.forch.pl

Förch S.r.I. Via Antonio Stradivari 4 39100 Bolzano (BZ) Italien Tel: +39 0471 204330 Fax: +39 0471 204290 E-Mail: info@forch.it Internet: www.forch.it

Förch Slovensko s.r.o. Rosinská cesta 8 010 08 Žilina Slowakei Tel +421 41 5002454 E-Mail: info@forch.sk Internet: www.forch.sk

FORCH d.o.o. Ljubljanska cesta 51A 1236 Trzin Slowenien Tel. +386 1 2442490 Fax. +386 1 2442492 E-Mail: info@foerch.si Internet: www.foerch.si

Förch Portugal Lda Centro Empresarial Sintra-Estoril III Rua Pé de Mouro, Nr 33, Armazém J 2710-335 Sintra Portugal Tel. +351 917314442 E-Mail: info@forch.pt Internet: www.forch.pt

Total Consumables Ltd Coolnafearagh Monasterevin Co. Kildare W34 TX29 Irland Tel. +353871271473 Vardalis SM P.C. Ethnikis Antistasis 62 57007 Chalkidona-Thessaloniki Griechenland Tel. +30 23910 21222 Fax. +30 23910 21223 E-Mail: info@forch.gr Internet: www.forch.gr

Förch Nederland BV Twentepoort Oost 51 7609 RG Almelo Niederlande Tel. +31 85 77 32 420 E-Mail: info@foerch.nl Internet: www.foerch.nl

Förch Sverige AB Brännarevägen 1 151 55 Södertälje Schweden Tel. +46 855089264 E-mail: info@foerch.se Internet: www.foerch.se

Forch Australia 2 Forward Street Gnangara WA 6077 Tel. +61 (08) 9303 9113 Fax. +61 (08) 9303 9114 Emergency telephone: +614 13 550 330 Email : sales@forch.com.au Internet: www.forch.com.au

Trigers SIA Straupes iela 3 1073 Riga Lettland Tel. +371 6 7 90 25 15 Fax. +371 67 90 24 96 E-Mail: trigers@trigers.lv Internet: www.trigers.lv

Venus Arma d.o.o. Partner Theo Förch GmbH & Co. KG Batajnicki drum 18a 11080 Zemun Republika Srbija Tel. +381 11 407-20-91 Fax. +381 11 407-20-91 E-Mail: office@foerch.rs Internet: www.foerch.rs

#### Any abbreviations and acronyms used in this document:



(GB) Page 24 of 25 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 21.09.2022 / 0028 Replacing version dated / version: 01.06.2022 / 0027 Valid from: 21.09.2022 PDF print date: 23.09.2022 Leaf-spring/Pinion Lubricant S452 500 ml Art.: 6500 5775, Art.: 6504 5775 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) 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 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 Dissolved organic carbon DOC dry weight dw 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 EEC European Economic Community European Inventory of Existing Commercial Chemical Substances EINECS ELINCS European List of Notified Chemical Substances EN **European Norms** FPA 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 Fax. Fax number gen. general ĞHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient Kow IARC International Agency for Research on Cancer International Air Transport Association ΙΑΤΑ IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. 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) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Logarithm of octanol-water partition coefficient Log Kow, Log Pow Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. n.av. not available not checked n.c. no data available n.d.a. 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



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parts per million ppm PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) 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. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International RID Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Tel. Telephone TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods Volatile organic compounds VOC vPvB very persistent and very bioaccumulative wet weight wwt

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.

(GB)

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

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