

Page 1 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 14.01.2019 / 0009 Replacing version dated / version: 21.08.2015 / 0008 Valid from: 14.01.2019 PDF print date: 15.01.2019 Top Tec 4605 5W-30 1 L Art.: 8936

## 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

## Top Tec 4605 5W-30 1 L

## Art.: 8936

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

No information available at present.

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC17 - Hydraulic fluids

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC20 - Use of functional fluids in small devices

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 9a - Widespread use of functional fluid (indoor)

ERC 9b - Widespread use of functional fluid (outdoor)

#### Uses advised against:

No information available at present.

## 1.3 Details of the supplier of the safety data sheet

(GB)

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



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## Classification according to Regulation (EC) 1272/2008 (CLP)

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

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

EUH208-Contains Calcium alkyl aryl sulfonate, long-chain, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.

EUH210-Safety data sheet available on request.

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

Product can compose a film on the water surface, which can prevent oxygen exchange.

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substance

#### n.a. 3.2 Mixture

3.2 MIXture	
Bis(nonylphenyl)amine	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	253-249-4
CAS	36878-20-3
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Chronic 4, H413
Polyolefin polyamine succinimide, Polyol	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	604-611-9 (REACH-IT List-No.)
CAS	147880-09-9
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Chronic 4, H413
Distillates (petroleum), hydrotreated heavy paraffinic	
Registration number (REACH)	
Index	649-467-00-8
EINECS, ELINCS, NLP	265-157-1
CAS	64742-54-7
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	
Registration number (REACH)	
Index	649-483-00-5
EINECS, ELINCS, NLP	276-738-4
CAS	72623-87-1
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	
Registration number (REACH)	



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Index	649-482-00-X
EINECS, ELINCS, NLP	276-737-9
CAS	72623-86-0
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

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

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Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### 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. The following may occur: Drying of the skin.

Irritation of the skin.

## 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 CO2 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 Oxides of nitrogen Toxic gases 5.3 Advice for firefighters In case of fire and/or explosion do not breathe fumes.

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. Dispose of contaminated extinction water according to official regulations.



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## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

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Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

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

## 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) 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 formation of oil mist.

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.

#### 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

Not to be stored in gangways or stair wells.

Store product closed and only in original packing. Under all circumstances prevent penetration into the soil. Store in a dry place.

## 7.3 Specific end use(s)

No information available at present.

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

### 8.1 Control parameters

Chemical Name	Oil mist, mineral			Content %:
WEL-TWA: 5 mg/m3 (Mineral oil, e	xcluding metal	WEL-STEL:		
working fluids, ACGIH)				
Monitoring procedures:	-	Draeger - Oil 10/a-P (67 28 371)		
	-	Draeger - Oil Mist 1/a (67 33 031)		
BMGV:			Other information:	
Bis(nonylphenyl)amine				



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Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,1	mg/l	
	Environment - marine		PNEC	0,01	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1	mg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - sediment, freshwater		PNEC	132000	mg/kg dry weight	
	Environment - sediment, marine		PNEC	13200	mg/kg dry weight	
	Environment - soil		DNEL	263000	mg/kg dw	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,31	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,09	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,31	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,62	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	4,37	mg/m3	

Distillates (petroleum), hydrotreated heavy paraffinic											
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note					
	Environmental compartment										
	Environment - oral (animal feed)		PNEC	9,33	mg/kg feed						
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3						
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,4	mg/m3						

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based											
Area of application	Exposure route /	Exposure route / Effect on health Descriptor Value Unit No									
	Environmental										
	compartment										
	Human - oral		PNEC	9,33	mg/kg feed						
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3	24h					
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,4	mg/m3	8h					

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based											
Area of application	Exposure route /	Exposure route / Effect on health Descriptor Value Unit Note									
	Environmental										
	compartment										
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3	24h					
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,4	mg/m3	8h					

3 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 heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.



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# 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 feedingstuffs.

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

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

Skin protection - Hand protection: Protective nitrile gloves (EN 374) Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes:

480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. With oil mist formation: Filter 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: Colour: Odour: Droperties Liquid Brown Characteristic



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Odour threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Viscosity: Explosive properties: Oxidising properties:

## 9.2 Other information

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

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Not determined Not determined Not determined Not determined 230 °C Not determined n.a. Not determined Not determined Not determined Not determined 0,87 g/ml n.a. Not determined Insoluble Not determined Not determined Not determined 71,4 mm2/s (40°C) 11,95 mm2/s (100°C) Product is not explosive. No

Not determined Not determined Not determined Not determined

### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** See also section 7. Open flame, ignition sources Protect from humidity. **10.5 Incompatible materials** See also section 7. Avoid contact with strong oxidizing agents. **10.6 Hazardous decomposition products** See also section 5.2

No decomposition when used as directed.

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

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

Top Tec 4605 5W-30 1 L						
Art.: 8936						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.



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Serious eye damage/irritation:				n.d.a.
Respiratory or skin				n.d.a.
sensitisation:				
Germ cell mutagenicity:				n.d.a.
Carcinogenicity:				n.d.a.
Reproductive toxicity:				n.d.a.
Specific target organ toxicity -				n.d.a.
single exposure (STOT-SE):				
Specific target organ toxicity -				n.d.a.
repeated exposure (STOT-RE):				
Aspiration hazard:				n.d.a.
Symptoms:				n.d.a.
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Bis(nonylphenyl)amine						
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)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 478 (Genetic Toxicology - Rodent dominant Lethal Test)	Negative, Analogous conclusion
Reproductive toxicity (Developmental toxicity):	NOAEL	150	mg/kg bw/d	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	<100	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	

Distillates (petroleum), hydrotr	Distillates (petroleum), hydrotreated heavy paraffinic									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Analogous				
					Toxicity)	conclusion				
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	Analogous				
					Dermal Toxicity)	conclusion				
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute	Aerosol,				
			-		Inhalation Toxicity)	Analogous				
						conclusion				
Skin corrosion/irritation:				Rabbit		Not irritant				
Skin corrosion/irritation:						Mild irritant,				
						Analogous				
						conclusion				
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					
					Chromosome					
					Aberration Test)					
Carcinogenicity:				Mouse	OECD 451	Negative				
					(Carcinogenicity Studies)					



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Aspiration hazard:			Yes
Symptoms:			coughing,
			respiratory
			distress, nausea
			and vomiting.,
			diarrhoea

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	No (skin contact
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:					OECD 451 (Carcinogenicity Studies)	Negative
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity:					OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	Negative
Aspiration hazard:					,	Asp. Tox. 1

Lubricating oils (petroleum), C	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral					
					Toxicity)					
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute					
					Dermal Toxicity)					
Acute toxicity, by inhalation:	LC50	>5,53	mg/m3/4h	Rat	OECD 403 (Acute	Aerosol				
					Inhalation Toxicity)					
Aspiration hazard:						Yes				
Symptoms:						nausea and				
						vomiting.				

## **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).										
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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to fish:							n.d.a.			
12.1. Toxicity to daphnia:							n.d.a.			



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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			
12.6. Other adverse			n.d.a.
effects:			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	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 algae:	EC50	72h	600	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	1	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		>7,6			, , , , , , , , , , , , , , , , , , ,	Concentration in organisms possible.

Foxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to daphnia:	EL50	48h	10000	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
2.1. Toxicity to fish:	NOEC/NOEL	96h	>100	mg/l	Pimephales	OECD 203 (Fish,	
					promelas	Acute Toxicity	
						Test)	
2.1. Toxicity to daphnia:	LL50	96h	>10000	mg/l		OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
12.1. Taviaity to dophnia	NOEC/NOEL	21d	10		Donhnia magna	Test)	
12.1. Toxicity to daphnia: 12.1. Toxicity to algae:	NOEC/NOEL	72h	>=100	mg/l	Daphnia magna Pseudokirchneriell	OECD 201 (Alga,	
12.1. TOXICITY TO algae.	NOEC/NOEL	1211	>=100	mg/l	a subcapitata	Growth Inhibition	
					a subcapitata	Test)	
2.2. Persistence and		28d	31	%		OECD 301 F	Not readily
legradability:				/0		(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry Test)	
Water solubility:							Insoluble
Lubricating oils (petrole)							
Foxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



 Image: Weight of the system

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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	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EL50	48h	>100	mg/l	Pseudokirchneriell a 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	

Foxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	14d	>=1000	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EL50	48h	>10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>=100	mg/l			
12.3. Bioaccumulative potential:							Readily biodegradable
Other information:	Log Pow		6,1				•

## **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.



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#### 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) 07 06 99 wastes not otherwise specified 13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils 20 01 26 oil and fat other than those mentioned in 20 01 25 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.

Uncontaminated packaging can be recycled.

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

#### **SECTION 14: Transport information**

#### **General statements** 14.1. UN number: n.a. Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. Classification code: n.a. LQ: n.a. 14.5. Environmental hazards: Not applicable Tunnel restriction code: Transport by sea (IMDG-code) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. Marine Pollutant: n.a 14.5. Environmental hazards: Not applicable Transport by air (IATA) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. 14.5. Environmental hazards: Not applicable 14.6. Special precautions for user Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

## **SECTION 15: Regulatory information**

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

Observe restrictions: General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):

0 %

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information** 



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Revised sections:

#### 2, 3, 8, 9, 11, 12, 15

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

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

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

Aquatic Chronic — Hazardous to the aquatic environment - chronic Asp. Tox. — Aspiration hazard

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

AC Article Categories acc., acc. to according, according to ACGIH American Conference of Governmental Industrial Hygienists ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level Adsorbable organic halogen compounds AOX approx. approximately Article number Art., Art. no. Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) ATF BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) **Bioconcentration factor** BCF BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BHT BMGV Biological monitoring guidance value (EH40, UK) BOD Biochemical oxygen demand BSEF Bromine Science and Environmental Forum body weight bw Chemical Abstracts Service CAS CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques CIPAC Collaborative International Pesticides Analytical Council CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic COD Chemical oxygen demand CTFA Cosmetic, Toiletry, and Fragrance Association DMEL Derived Minimum Effect Level DNEL Derived No Effect Level Dissolved organic carbon DOC DT50 Dwell Time - 50% reduction of start concentration DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. ЕČ European Community ECHA European Chemicals Agency EEA European Economic Area EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances European Norms FN



ആ Page 14 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 14.01.2019 / 0009 Replacing version dated / version: 21.08.2015 / 0008 Valid from: 14.01.2019 PDF print date: 15.01.2019 Top Tec 4605 5W-30 1 L Art.: 8936 EPA United States Environmental Protection Agency (United States of America) ERC **Environmental Release Categories** ES Exposure scenario et cetera etc. EU European Union EWC European Waste Catalogue Fax. Fax number general aen. GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential HET-CAM Hen's Egg Test - Chorionallantoic Membrane HGWP Halocarbon Global Warming Potential International Agency for Research on Cancer IARC ΙΑΤΑ International Air Transport Association IBC Intermediate Bulk Container IBC (Code) International Bulk Chemical (Code) Inhibitory concentration IC IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. IUCLID International Uniform ChemicaL Information Database LC lethal concentration LC50 lethal concentration 50 percent kill lowest published lethal concentration LCLo Lethal Dose of a chemical 1 D LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level Limited Quantities 10 MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available NIOSH National Institute of Occupational Safety and Health (United States of America) NOAECNo Observed Adverse Effective Concentration NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP **Ozone Depletion Potential** OECD Organisation for Economic Co-operation and Development organic org. polycyclic aromatic hydrocarbon PAH PBT persistent, bioaccumulative and toxic Chemical product category PC Polyethylene PF PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential ppm parts per million PROC Process category PTFE Polytetrafluorethylene REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List REACH-IT List-No. Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International RID Carriage of Dangerous Goods by Rail) SADT Self-Accelerating Decomposition Temperature SAR Structure Activity Relationship SU Sector of use SVHC Substances of Very High Concern Telephone Tel.



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ThOD Theoretical oxygen demand TOC Total organic carbon TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) UN RTDG United Nations Recommendations on the Transport of Dangerous Goods Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VbF VOC Volatile organic compounds vPvB very persistent and very bioaccumulative WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK). WHO World Health Organization wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: 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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