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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**

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# Top Tec 4410 5W-30

 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Motor oil
 Uses advised against: No information available at present.

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

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

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

# 1.4 Emergency telephone number

Emergency information services / official advisory body:

**Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

**SECTION 2: Hazards identification** 

#### 2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) 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)

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 %).

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



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

## 3.1 Substances

#### n.a. 3.2 Mixtures

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	
Registration number (REACH)	01-2119474889-13-XXXX
Index	649-483-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	276-738-4
CAS	72623-87-1
content %	40-50
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated heavy paraffinic	
Registration number (REACH)	
Index	649-467-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	265-157-1
CAS	64742-54-7
content %	1-10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
Baseoil - unspecified *	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	
content %	1-10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

\* The contained mineral oil can be described by one or more of the following numbers: EINECS, ELINCS, NLP, REACH-Registration number (REACH) **Chemical name** IT List-No. 265-157-1 01-2119484627-25-XXXX Distillates (petroleum), hydrotreated heavy paraffinic 265-169-7 01-2119471299-27-XXXX Distillates (petroleum), solvent-dewaxed heavy paraffinic 265-158-7 01-2119487077-29-XXXX Distillates (petroleum), hydrotreated light paraffinic 01-2119480132-48-XXXX Distillates (petroleum), solvent-dewaxed light paraffinic 265-159-2

The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

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

#### Skin contact

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

#### Eye contact

Remove contact lenses.

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

#### Ingestion

Rinse the mouth thoroughly with water.



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Do not induce vomiting. Consult doctor immediately.

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

#### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

#### **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## Suitable extinguishing media

CO2 Foam Dry extinguisher Water jet spray

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## 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 phosphorus Oxides of sulphur Oxides of nitrogen Toxic gases

## 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.

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.

## 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration. If accidental entry into drainage system occurs, inform responsible authorities.

## 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

## 6.4 Reference to other sections

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



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## **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. Do not heat to temperatures close to flash point. Observe directions on label and instructions for use.

#### 7.1.2 Notes on general hygiene measures at the workplace

Human - inhalation

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 at room temperature. 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					
WEL-TWA: 5 mg/m3 (Mi	neral oil, excluding metal	WEL-STEL:				
working fluids, ACGIH)						
Monitoring procedures:	- D	raeger - Oil Mist 1/a (67 33 031)	)			
BMGV:			Other inform	mation:	-	
<u> </u>	um), C20-50, hydrotreated neu					
<u> </u>	um), C20-50, hydrotreated neu Exposure route /	Itral oil-based Effect on health	Descriptor	Value	Unit	Note
Lubricating oils (petroled Area of application			Descriptor	Value	Unit	Note
<b>0</b>	Exposure route /		Descriptor	Value	Unit	Note
<u> </u>	Exposure route / Environmental		<b>Descriptor</b> PNEC	<b>Value</b> 9,33	Unit mg/kg feed	Note

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

Long term, local effects DNEL

5,4

mg/m3

8h

**Baseoil - unspecified** 

Workers / employees



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Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - oral (animal feed)		PNEC	9,33	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,74	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1	mg/kg	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,6	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,7	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					

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 use in relation (2017/164/EU, 2017/2398/EU).

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 (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). If applicable Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes:



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>= 480

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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: If OES or MEL is exceeded. Filter A P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

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

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

## 8.2.3 Environmental exposure controls

No information available at present.

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

## 9.1 Information on basic physical and chemical properties

sti information on basic physical and chemical	
Physical state:	Liquid
Colour:	Brown
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:	Flammable
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	230 °C
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	68,1 mm2/s (40°C)
Kinematic viscosity:	11,8 mm2/s (100°C)
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	0,85 g/ml
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	Product is not explosive.
Oxidising liquids:	Νο
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**SECTION 10: Stability and reactivity** 

10.1 Reactivity
The product has not been tested.
10.2 Chemical stability
Stable with proper storage and handling.



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# **10.3 Possibility of hazardous reactions** No dangerous reactions are known.

10.4 Conditions to avoid

Open flame, ignition sources **10.5 Incompatible materials** 

Avoid contact with strong oxidizing agents.

#### **10.6 Hazardous decomposition products**

No decomposition when used as directed.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

oxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	-					n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Lubricating oils (petroleum), C		Value	Unit	Organiam	Test method	Notes
Toxicity / effect	Endpoint			Organism		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:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Repeated
					Irritation/Corrosion)	exposure may
						cause skin
						dryness or
						cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous
						conclusion
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	Chinese hamster
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative,
5 ,					Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion



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Germ cell mutagenicity:	Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Carcinogenicity:		OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Carcinogenicity:	Mouse	OECD 451 (Carcinogenicity Studies)	Negative, Analogous conclusion
Reproductive toxicity:		OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity:		OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	Negative
Reproductive toxicity:	Rat	OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	Negative, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE):		OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):		OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):		OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):		OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):		OECD 412 (Subacute Inhalation Toxicity - 28- Day Study)	Negative
Aspiration hazard:			Asp. Tox. 1

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	OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant,
					Irritation/Corrosion)	Analogous
						conclusion
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact),
						Analogous
						conclusion
Germ cell mutagenicity:					OECD 473 (In Vitro	NegativeChinese
					Mammalian	hamster
					Chromosome	
					Aberration Test)	



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Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative,
Serificen matagementy.				Wouse	Erythrocyte	Analogous
					Micronucleus Test)	conclusion
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro	Negative,
Sermi cen mutagementy.				Warmanan	Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion
Carcinogenicity:				Mouse	OECD 451	Negative,
earomogeniony.				Wiedoc	(Carcinogenicity Studies)	Analogous
					(Galeinogenioity Gradies)	conclusion78
						weeks, dermal
Reproductive toxicity:				Rat	OECD 421	Negative,
					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusionoral
					Test)	
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative,
(Developmental toxicity):					Developmental Toxicity	Analogous
(					Study)	conclusionderma
Specific target organ toxicity -	NOAEL	~1000	mg/kg	Rabbit	OECD 410 (Repeated	Analogous
repeated exposure (STOT-RE),			bw/d		Dose Dermal Toxicity -	conclusion
dermal:					90-Day)	
Specific target organ toxicity -	NOAEL	<30	mg/kg	Rat	OECD 411 (Subchronic	Analogous
repeated exposure (STOT-RE),					Dermal Toxicity - 90-day	conclusion
dermal:					Study)	
Specific target organ toxicity -	NOEC	~220	mg/m3	Rat	OECD 412 (Subacute	Analogous
repeated exposure (STOT-RE),			-		Inhalation Toxicity - 28-	conclusion,
inhalat.:					Day Study)	Aerosol
Symptoms:						coughing,
						respiratory
						distress, nausea
						and vomiting.,
						diarrhoea
Specific target organ toxicity -	LOAEL	125	mg/kg	Rat	OECD 408 (Repeated	Analogous
repeated exposure (STOT-RE),					Dose 90-Day Oral	conclusion
oral:					Toxicity Study in	
					Rodents)	

Baseoil - unspecified									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Respiratory or skin						Not sensitizising,			
sensitisation:						Analogous			
						conclusion			
Aspiration hazard:						Yes			
Symptoms:						mucous			
						membrane			
						irritation			

## 11.2. Information on other hazards

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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**



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

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on
							other adverse effects on the
							environment.

12.1. Toxicity to fish:       N(         12.1. Toxicity to fish:       LL         12.1. Toxicity to daphnia:       EL	NOEC/NOEL	10min 96h 96h 48h	> 1,93 >=100 > 100 > 10000	mg/l mg/l mg/l mg/l	activated sludge       Pimephales       promelas       Pimephales       promelas       Daphnia magna	OECD 203 (Fish, Acute Toxicity Test) OECD 203 (Fish, Acute Toxicity Test) OECD 202	DIN 38412
12.1. Toxicity to fish: LL 12.1. Toxicity to daphnia: El	LL50 EL50	96h	> 100	mg/l	promelas Pimephales promelas	Acute Toxicity Test) OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia: El	EL50				Pimephales promelas	Test) OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia: El	EL50				promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia: El	EL50				promelas	Acute Toxicity Test)	
12.1. Toxicity to daphnia: El		48h	>10000		promelas	Acute Toxicity Test)	
		48h	>10000	mg/l	Daphnia magna	Test)	
		48h	>10000	mg/l	Daphnia magna		
	NOEC/NOEL			5			
12.1. Toxicity to daphnia: N	NOEC/NOEL					(Daphnia sp.	
12.1. Toxicity to daphnia: No	NOEC/NOEL					Acute	
12.1. Toxicity to daphnia: No	NOEC/NOEL					Immobilisation	
12.1. Toxicity to daphnia: No	NOEC/NOEL					Test)	
		21d	10	mg/l	Daphnia magna	OECD 211	
					_ aprilla magna	(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae: NO	NOEC/NOEL	72h	>=100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
	NOLO/NOLL	1211	2=100	iiig/i	a subcapitata	Growth Inhibition	
					a Subcapitata	Test)	
12.1. Toxicity to algae: EL	EL50	48h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
	-200		2100	ing/i	a subcapitata	Growth Inhibition	
					a Subcapitata	Test)	
12.2. Persistence and						OECD 301 B	Not readily
degradability:						(Ready	biodegradable
acgradability.						Biodegradability -	biodegradabi
						Co2 Evolution	
						Test)	
12.2. Persistence and		28d	46	%		OECD 301 B	
degradability:		200		70		(Ready	
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.3. Bioaccumulative Lo	og Kow		>6			1001)	A notable
potential:	-09 11010		-0				biological
poterniai.							accumulation
							potential has
							be expected
12.5. Results of PBT							(LogPow > 3) No PBT
and vPvB assessment							substance, No vPvB substar



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(GB)·

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	96h	>100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	14d	1000	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to daphnia:	EL50	48h	10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to daphnia:	LL50	96h	>10000	mg/l		OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OEĆD 211 (Daphnia magna Reproduction Test)	Analogous conclusion
12.1. Toxicity to algae:	NOEC/NOEL	72h	>=100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	31	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable, Analogous conclusion
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substanc
Water solubility:							Insoluble

Baseoil - unspecified							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	48h	>10000	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>10	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Scenedesmus quadricauda		
12.2. Persistence and degradability:		28d	31	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.



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## 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 or ID 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.	
_Q:	n.a.	
14.5. Environmental hazards:	Not applicable	
Funnel 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		
Jnless specified otherwise, general measures for safe tra	ansport must be followed	

Non-dangerous material according to Transport Regulations.

SECTION 15:	Regulatory	v information
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#### 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. Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Directive 2010/75/EU (VOC):

< 0,1 %

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information** 

Revised sections:

3, 8, 11, 12, 15

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

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



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H304 May be fatal if swallowed and enters airways.

Asp. Tox. - Aspiration hazard

#### 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.

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

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

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

according, according to acc., acc. to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) 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 Chemical Abstracts Service CAS Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CLP and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.q. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC 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 EPA United States Environmental Protection Agency (United States of America)  $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) et cetera etc. EU **European Union** EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general gen. GHS 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 IATA



ആ Page 14 of 14 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 29.04.2022 / 0003 Replacing version dated / version: 01.11.2021 / 0002 Valid from: 29.04.2022 PDF print date: 02.05.2022 Top Tec 4410 5W-30 IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Log Kow, Log Pow Logarithm of octanol-water partition coefficient LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships n.a. not applicable not available n.av. not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic ΡE Polyethylene PNEC Predicted No Effect Concentration ppm parts per million Polyvinylchloride **PVC** 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) SVHC Substances of Very High Concern Tel. Telephone TOC Total organic carbon United Nations Recommendations on the Transport of Dangerous Goods UN RTDG VOC Volatile organic compounds very persistent and very bioaccumulative vPvB 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.

These statements were made by

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