

## Safety Data Sheet

### Alpine Turbo Ultra 5W-30

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Alpine Turbo Ultra 5W-30

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

###### Use of the substance/mixture

Motor oil multigrade

###### Uses advised against

No information available.

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

Company name:	Mitan Mineralöl GmbH	
Street:	Industriestraße 8	
Place:	D-49577 Ankum	
Telephone:	+49 (0)5462/7470-50	Telefax: +49 (0)5462/7470-33
e-mail:	info@mitan-oil.de	
Internet:	www.mitan-oil.de	
Responsible Department:	Produktsicherheit / Product Safety sicherheitsdatenblatt@mitan-oil.de	

##### 1.4. Emergency telephone number:

Giftinformationszentrum Nord (Göttingen)  
+49 (0)551/19240

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Regulation (EC) No. 1272/2008

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

##### 2.2. Label elements

###### Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



###### Hazard statements

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

###### Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection..

P337+P313 If eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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present and easy to do. Continue rinsing.

Dispose of contents/container to Dispose of waste according to applicable legislation..

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			35 - < 40 %
	265-157-1	649-467-00-8	01-2119484627-25	
	Asp. Tox. 1; H304			
	mineral oil*			5 - < 10 %
	Asp. Tox. 1; H304			
2215-35-2	Zinc O,O',O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)			1 - < 5 %
	218-679-9		01-2119953275-34	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411			
36878-20-3	Bis(nonylphenyl)amine			1 - < 5 %
	253-249-4		01-2119488911-28	
	Aquatic Chronic 4; H413			
122-39-4	diphenylamine			< 1,0 %
	204-539-4	612-026-00-5		
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H331 H311 H301 H373 H400 H410			
121158-58-5	phenol, dodecyl-, branched			< 1,0 %
	310-154-3	604-092-00-9	01-2119513207-49	
	Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360F H314 H318 H400 H410			
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts			< 1 %
	283-392-8		01-2119493626-26	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411			

Full text of H and EUH statements: see section 16.

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#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	35 - < 40 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
2215-35-2	218-679-9	Zinc O,O',O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	1 - < 5 %
		inhalation: LC50 = > 2,3 mg/l (vapours); dermal: LD50 = > 25000 mg/kg; oral: LD50 = 2230 mg/kg	
36878-20-3	253-249-4	BIs(nonylphenyl)amine	1 - < 5 %
		oral: LD50 = > 5000 mg/kg	
122-39-4	204-539-4	diphenylamine	< 1,0 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = ca. 600 mg/kg	
121158-58-5	310-154-3	phenol, dodecyl-, branched	< 1,0 %
		dermal: LD50 = ca. 15000 mg/kg; oral: LD50 = 2100 mg/kg M akut; H400: M=10 M chron.; H410: M=10	
84605-29-8	283-392-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	< 1 %
		inhalation: LC50 = > 2,3 mg/l (vapours); dermal: LD50 = > 2002 mg/kg; oral: LD50 = 4468 mg/kg Skin Irrit. 2; H315: >= 6,25 - 100 Eye Dam. 1; H318: >= 12,5 - 100 Eye Irrit. 2; H319: >= 10 - < 12,5	

#### Further Information

\* The mineral oils contained can be described by one or more of the following numbers: EC-no.: 265-157-1, 265-169-7, 265-158-7, 265-159-2 REACH-no.: 01-2119484627-25, 01-2119471299-27, 01-2119487077-29, 01-2119480132-48

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove affected person from the danger area and lay down.  
Do not leave affected person unattended.  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

Remove person to fresh air and keep comfortable for breathing.  
In all cases of doubt, or when symptoms persist, seek medical advice.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.  
Take off contaminated clothing and wash it before reuse.  
In case of skin irritation, consult a physician.

##### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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#### **After ingestion**

- Rinse mouth thoroughly with water.
- Let water be drunken in little sips (dilution effect).
- Do NOT induce vomiting.
- In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

- Use water spray jet to protect personnel and to cool endangered containers.
- Co-ordinate fire-fighting measures to the fire surroundings.
  - Water spray jet
  - Carbon dioxide (CO<sub>2</sub>).
  - Extinguishing powder
  - Foam

##### **Unsuitable extinguishing media**

High power water jet.

#### **5.2. Special hazards arising from the substance or mixture**

- Formation of toxic gases is possible during heating or in case of fire.
- In case of fire may be liberated:
  - Carbon monoxide (CO)
  - Carbon dioxide (CO<sub>2</sub>).
  - Nitrogen oxides (NO<sub>x</sub>)
  - Sulphur dioxide (SO<sub>2</sub>)
  - Pyrolysis products, toxic

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **General measures**

- Keep people at a distance and stay on the windward side.
- Special danger of slipping by leaking/spilling product.

##### **For non-emergency personnel**

Wear protective gloves/protective clothing and eye/face protection.

#### **6.2. Environmental precautions**

- Do not allow to enter into surface water or drains.
- Do not allow to enter into soil/subsoil.
- Prevent spread over a wide area (e.g. by containment or oil barriers).

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

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#### For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Remove from the water surface (e.g. skimming, sucking).

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Avoid formation of oil dust.

Use personal protection equipment.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Clear spills immediately.

##### Advice on protection against fire and explosion

No special fire protection measures are necessary.

Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Keep only in the original container. Store in a cool dry place. (Protect from moisture.)

Floors should be impervious, resistant to liquids and easy to clean.

##### Hints on joint storage

Do not store together with:

- Materials capable of ignition under almost all normal temperature conditions
- Explosives

#### 7.3. Specific end use(s)

Motor oil multigrade

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
122-39-4	Diphenylamine	-	10		TWA (8 h)	WEL
		-	20		STEL (15 min)	WEL

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**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			
Worker DNEL, long-term	inhalation	systemic		2,73 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local		5,58 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic		0,97 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local		1,19 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic		0,74 mg/kg bw/day
2215-35-2	Zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)			
Worker DNEL, long-term	inhalation	systemic		8,6 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic		12,2 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic		2,13 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic		6,1 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic		0,24 mg/kg bw/day
36878-20-3	Bis(nonylphenyl)amine			
Worker DNEL, long-term	dermal	systemic		5 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic		2,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic		0,25 mg/kg bw/day
121158-58-5	phenol, dodecyl-, branched			
Worker DNEL, acute	inhalation	systemic		44,18 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic		0,25 mg/kg bw/day
Worker DNEL, acute	dermal	systemic		166 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic		0,79 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic		13,26 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic		0,075 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic		50 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic		0,075 mg/kg bw/day
Consumer DNEL, acute	oral	systemic		1,26 mg/kg bw/day
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts			
Worker DNEL, long-term	inhalation	systemic		8,31 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic		12,1 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic		2,11 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic		6,1 mg/kg bw/day

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Consumer DNEL, long-term	oral	systemic	0,24 mg/kg bw/day
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#### PNEC values

CAS No	Substance	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
	Secondary poisoning	9,33 mg/kg
2215-35-2	Zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	
	Freshwater	0,004 mg/l
	Freshwater (intermittent releases)	0,045 mg/l
	Marine water	0,0046 mg/l
	Freshwater sediment	0,074 mg/kg
	Marine sediment	0,007 mg/kg
	Secondary poisoning	10,67 mg/kg
	Micro-organisms in sewage treatment plants (STP)	100 mg/l
	Soil	0,01 mg/kg
36878-20-3	Bis(nonylphenyl)amine	
	Freshwater	0,412 mg/l
	Freshwater (intermittent releases)	1 mg/l
	Marine water	0,041 mg/l
	Freshwater sediment	1 mg/kg
	Marine sediment	0,1 mg/kg
121158-58-5	phenol, dodecyl-, branched	
	Freshwater	0,000074 mg/l
	Freshwater (intermittent releases)	0,00037 mg/l
	Marine water	0,000007 mg/l
	Freshwater sediment	0,226 mg/kg
	Marine sediment	0,027 mg/kg
	Secondary poisoning	4 mg/kg
	Micro-organisms in sewage treatment plants (STP)	100 mg/l
	Soil	0,118 mg/kg
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	
	Freshwater	0,004 mg/l
	Freshwater (intermittent releases)	0,045 mg/l
	Marine water	0,0046 mg/l
	Freshwater sediment	0,022 mg/kg
	Marine sediment	0,002 mg/kg
	Secondary poisoning	10,67 mg/kg
	Micro-organisms in sewage treatment plants (STP)	100 mg/l
	Soil	0,002 mg/kg

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#### 8.2. Exposure controls



##### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

##### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.  
Wash hands before breaks and after work.  
When using do not eat, drink, smoke, sniff.

##### Eye/face protection

During filling, metering, mixing and sampling must be used:  
Wear eye/face protection. DIN EN 166

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	-
Odour:	characteristic
Odour threshold:	not determined

#### Test method

pH-Value: not determined

##### Changes in the physical state

Melting point: not determined

Boiling point or initial boiling point and boiling range: not determined

Pour point: <-45 °C ISO 3016

Flash point: 232 °C

##### Flammability

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Solid/liquid: not applicable

Gas: not applicable

#### Explosive properties

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits: not determined

Upper explosion limits: not determined

#### Self-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

#### Oxidizing properties

The product is not: oxidising.

Vapour pressure: not determined

Density (at 15 °C): 0,856 g/cm<sup>3</sup> DIN 51757

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic:  
(at 40 °C) 72,1 mm<sup>2</sup>/s DIN EN ISO 3104

Relative vapour density: not determined

Evaporation rate: not determined

#### 9.2. Other information

Solid content: not determined

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point

#### 10.4. Conditions to avoid

Avoid: Thermal decomposition

#### 10.5. Incompatible materials

Materials to avoid:  
- Oxidising agent

#### 10.6. Hazardous decomposition products

Hazardous combustion products:  
- Carbon monoxide (CO)

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- Carbon dioxide (CO<sub>2</sub>).
- Nitrogen oxides (NO<sub>x</sub>)
- Sulphur dioxide (SO<sub>2</sub>)
- Pyrolysis products, toxic

### SECTION 11: Toxicological information

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

##### **Acute toxicity**

Based on available data, the classification criteria are not met.

##### **ATEmix calculated**

ATE (inhalation vapour) 12,01 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	OECD Guideline 402
2215-35-2	Zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)				
	oral	LD50 2230 mg/kg	Rat	Study report (1980)	other: 16CFR1500.3
	dermal	LD50 > 25000 mg/kg	Rabbit	Study report (1980)	other: Protocol 159 and 159-01 reference
	inhalation (4 h) vapour	LC50 > 2,3 mg/l	Rat	Study report	OECD Guideline 403
36878-20-3	BIs(nonylphenyl)amine				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1981)	OECD Guideline 401
122-39-4	diphenylamine				
	oral	LD50 ca. 600 mg/kg	Hamster, Rat, Gerbil	Publication (1990)	The nephrotoxicity of diphenylamine, the
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 3 mg/l			
	inhalation aerosol	ATE 0,5 mg/l			
121158-58-5	phenol, dodecyl-, branched				
	oral	LD50 2100 mg/kg	Rat	Publication (1978)	OECD Guideline 401
	dermal	LD50 ca. 15000 mg/kg	Rabbit	Study report (1968)	OECD Guideline 402
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts				
	oral	LD50 4468 mg/kg	Rat	Study report (1985)	OECD Guideline 401
	dermal	LD50 > 2002 mg/kg	Rat	Study report (1985)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 > 2,3 mg/l	Rat	Study report	OECD Guideline 403

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)

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#### **STOT-single exposure**

Based on available data, the classification criteria are not met.

#### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### **11.2. Information on other hazards**

##### **Endocrine disrupting properties**

No information available.

### **SECTION 12: Ecological information**

#### **12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203
2215-35-2	Zinc O,O',O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)					
	Acute fish toxicity	LL50 4,5 mg/l	96 h	Oncorhynchus mykiss	Study report (2005)	OECD Guideline 203
	Acute algae toxicity	ErC50 21 mg/l	72 h	Desmodesmus subspicatus	Study report (2005)	OECD Guideline 201
	Acute crustacea toxicity	EL50 23 mg/l	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202
	Crustacea toxicity	NOEC 0,4 mg/l	21 d	Daphnia magna	Study report (2010)	OECD Guideline 211
	Acute bacteria toxicity	(> 10000 mg/l)	3 h	activated sludge of a domestic residential sewage	Study report (1994)	OECD Guideline 209
36878-20-3	Bis(nonylphenyl)amine					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Danio rerio (zebrafish)	ECHA Dossier	
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2019)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	Study report (2004)	OECD Guideline 202
122-39-4	diphenylamine					
	Acute algae toxicity	ErC50 2,17 mg/l	72 h	Pseudokirchneriella subcapitata	Publication (1997)	OECD Guideline 201
	Acute crustacea toxicity	EC50 2 mg/l	48 h	Daphnia magna	Publication (1997)	OECD Guideline 202
121158-58-5	phenol, dodecyl-, branched					
	Acute fish toxicity	LL50 40 mg/l	96 h	Pimephales promelas	Study report (1994)	OECD Guideline 203
	Acute algae toxicity	ErC50 0,15 mg/l	72 h	Desmodesmus subspicatus	Study report (2005)	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,037 mg/l	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202
	Fish toxicity	NOEC 0,0037 mg/l	21 d	Daphnia magna (Big water flea)	ECHA Dossier	
	Crustacea toxicity	NOEC 0,004 mg/l	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211
	Acute bacteria toxicity	(> 1000 mg/l)	3 h	activated sludge of a predominantly industrial sew	Study report (2004)	OECD Guideline 209
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts					
	Acute fish toxicity	LL50 4,5 mg/l	96 h	Oncorhynchus mykiss	Study report (2005)	OECD Guideline 203
	Acute algae toxicity	ErC50 21 mg/l	72 h	Desmodesmus subspicatus	Study report	OECD Guideline 201

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	Acute crustacea toxicity	EL50	23 mg/l	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202
	Crustacea toxicity	NOEC	0,4 mg/l	21 d	Daphnia magna	Study report (2010)	OECD Guideline 211
	Acute bacteria toxicity	(> 10000 mg/l)		3 h	activated sludge of a domestic residential sewage	Study report (1994)	OECD Guideline 209

#### 12.2. Persistence and degradability

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
121158-58-5	phenol, dodecyl-, branched			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	25%	28	
	Not readily biodegradable (according to OECD criteria)			

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2215-35-2	Zinc O,O',O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	2,21
36878-20-3	Bis(nonylphenyl)amine	7,6
122-39-4	diphenylamine	3,71
121158-58-5	phenol, dodecyl-, branched	7,14
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	0,56

#### BCF

CAS No	Chemical name	BCF	Species	Source
36878-20-3	Bis(nonylphenyl)amine	1584,89	Cyprinus carpio	Study report (2000)
121158-58-5	phenol, dodecyl-, branched	289	Oncorhynchus mykiss	Study report (2006)

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

No information available.

#### 12.7. Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

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#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

#### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

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#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

##### **Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

##### **Relevant H and EUH statements (number and full text)**

H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H360F	May damage fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

##### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*