

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ankolux Aqua System TP Satin Blank  
Revision date : 16.02.2015  
Print date : 21-05-2015

Version (Revision) : 2.0.0 (1.0.0)

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

### 1.1 Product identifier

Ankolux Aqua System TP Satin Blank (17-0659-000)

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

Paint/paint-related material for industrial/professional use.

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Anker Stuy Verven B.V.

Street : Hellingwal 1

Postal code/city : NL - 8407 EM Terwispe

Telephone : +31 513 - 46 50 00

Telefax : +31 513 - 46 50 30

Information contact : info@ankerstuy.nl

### 1.4 Emergency telephone number

Nationaal Vergiftigingen Informatie Centrum (NVIC): +31 30 - 274 88 88 (Office hours 08:00 - 16:30 GMT +1). Outside office hours: call a Poison Center or doctor/physician.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Category 3 ; Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P273 Avoid release to the environment.

##### Special rules for supplemental label elements for certain mixtures

EUH208 Contains A MIXTURE OF: ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) ; REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE ; NEODECANOIC ACID, COBALT SALT. May produce an allergic reaction.

### 2.3 Other hazards

None

## SECTION 3: Composition / information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

(2-METHOXYMETHYLETHOXY)PROPANOL ; REACH registration No. : 01-2119450011-60 ; EC No. : 252-104-2 ; CAS No. : 34590-94-8

Weight fraction : < 2,5 %

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Classification 67/548/EEC : Substance with a common (EC) occupational exposure limit value.  
Classification 1272/2008 [CLP] : Substance with a common (EC) occupational exposure limit value.

A MIXTURE OF: ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE); REACH registration No. : 01-0000015075-76 ; EC No. : 400-830-7

Weight fraction : 0,1 - 1 %  
Classification 67/548/EEC : N ; R51/53 R43  
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE ; REACH registration No. : 01-2119491304-40 ; EC No. : 915-687-0

Weight fraction : 0,25 - 1 %  
Classification 67/548/EEC : N ; R50/53 R43  
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

NEODECANOIC ACID, COBALT SALT ; REACH registration No. : 01-2119970733-31 ; EC No. : 248-373-0; CAS No. : 27253-31-2

Weight fraction : 0,1 - 1 %  
Classification 67/548/EEC : Repr. Cat.3 ; R62 N ; R51/53 R43 Xn ; R22 Xi ; R38  
Classification 1272/2008 [CLP] : Repr. 2 ; H361f Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

2,2'-BIPYRIDYL ; REACH registration No. : 01-2119535119-40-0000 ; EC No. : 206-674-4; CAS No. : 366-18-7

Weight fraction : < 2,5 %  
Classification 67/548/EEC : T ; R25 Xn ; R21  
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 Acute Tox. 3 ; H311

#### Additional information

Full text of R-, H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Never give anything by mouth to an unconscious person or a person with cramps.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

When in doubt or if symptoms are observed, get medical advice. Do NOT induce vomiting.

### 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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

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Alcohol resistant foam; Carbon dioxide (CO<sub>2</sub>) Extinguishing powder; Water mist;

## Unsuitable extinguishing media

Strong water jet

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

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### 5.3 Advice for firefighters

Do not allow run-off from fire-fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

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

Do not inhale the vapour. Provide for sufficient ventilation.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

Do not breathe gas/vapour/aerosol. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. See chapter 8 of the safety data sheet (Personal protection equipment) Never use pressure to empty container. Keep/Store only in original container. Comply with the health and safety at work laws. Do not allow to enter ground-water, surface water or drains, even not in small quantities.

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

#### Hints on joint storage

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

#### Further information on storage conditions

Use only in well-ventilated areas. Store between +5 and 35 °C in a dry, well ventilated place away from sources of heat and direct sunlight. Store between +5 and 35 °C in a dry, well ventilated place away from sources of heat and direct sunlight. When using do not smoke. Only allow access to authorised staff. Prevent leaks and prevent soil/ water pollution caused by leaks.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

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## 8.1 Control parameters

### Occupational exposure limit values

(2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8

Limit value type (country of origin) : TWA ( EC )

Limit value : 50 ppm / 308 mg/m<sup>3</sup>

Remark : H

Version : 08-06-2000

Limit value type (country of origin) : Exposure Limit (8h) ( NL )

Limit value : 300 mg/m<sup>3</sup>

Version : 01-01-2007

2,2'-BIPYRIDYL ; CAS No. : 366-18-7

Limit value type (country of origin) : Exposure Limit (8h) ( NL )

Limit value : 0,04 mg/m<sup>3</sup>

Version : 01-01-2007

Limit value type (country of origin) : Exposure Limit (15min) ( NL )

Limit value : 0,14 mg/m<sup>3</sup>

Version : 01-01-2007

### DNEL/ DMEL and PNEC values

#### DNEL/DMEL

Limit value type : DNEL Consumer (systemic) ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 0,085 mg/m<sup>3</sup>

Safety factor : 20

Limit value type : DNEL Consumer (systemic) ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 0,25 mg/kg

Safety factor : 80

Limit value type : DNEL Consumer (systemic) ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )

Exposure route : Oral

Exposure frequency : Long-term (repeated)

Limit value : 0,025 mg/kg

Safety factor : 80

Limit value type : DNEL worker (systemic) ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )

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Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	0,35 mg/m <sup>3</sup>
Safety factor :	10
Limit value type :	DNEL worker (systemic) ( A MIXTURE OF: ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE-NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	0,5 mg/kg
Safety factor :	40
Limit value type :	DNEL Consumer (local) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	0,58 mg/m <sup>3</sup>
Safety factor :	450
Limit value type :	DNEL Consumer (systemic) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	0,58 mg/m <sup>3</sup>
Safety factor :	450
Limit value type :	DNEL Consumer (systemic) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	0,58 mg/m <sup>3</sup>
Safety factor :	450
Limit value type :	DNEL Consumer (systemic) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	1,25 mg/kg
Safety factor :	240
Limit value type :	DNEL Consumer (systemic) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )
Exposure route :	Dermal
Exposure frequency :	Short-term (acute)
Limit value :	1,25 mg/kg
Safety factor :	240
Limit value type :	DNEL Consumer (systemic) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	1,25 mg/kg
Safety factor :	240
Limit value type :	DNEL Consumer (systemic) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

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SEBACATE )  
 Exposure route : Oral  
 Exposure frequency : Short-term (acute)  
 Limit value : 1,25 mg/kg  
 Safety factor : 240  
 Limit value type : DNEL worker (local) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Exposure route : Inhalation  
 Exposure frequency : Short-term (acute)  
 Limit value : 2,35 mg/m<sup>3</sup>  
 Safety factor : 225  
 Limit value type : DNEL worker (systemic) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Exposure route : Inhalation  
 Exposure frequency : Long-term (repeated)  
 Limit value : 2,35 mg/m<sup>3</sup>  
 Safety factor : 225  
 Limit value type : DNEL worker (systemic) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Exposure route : Inhalation  
 Exposure frequency : Short-term (acute)  
 Limit value : 2,35 mg/m<sup>3</sup>  
 Safety factor : 225  
 Limit value type : DNEL worker (systemic) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Exposure route : Dermal  
 Exposure frequency : Long-term (repeated)  
 Limit value : 2,5 mg/kg  
 Safety factor : 120  
 Limit value type : DNEL Consumer (local) ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )

Exposure route : Inhalation  
 Exposure frequency : Long-term (repeated)  
 Limit value : 43 µg/m<sup>3</sup>  
 Limit value type : DNEL Consumer (systemic) ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )

Exposure route : Oral  
 Exposure frequency : Long-term (repeated)  
 Limit value : 64,9 µg/l  
 Safety factor : 50  
 Limit value type : DNEL worker (local) ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )

Exposure route : Inhalation  
 Exposure frequency : Long-term (repeated)  
 Limit value : 273,2 µg/m<sup>3</sup>

**PNEC**  
 Limit value type : PNEC aquatic, freshwater ( A MIXTURE OF :ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )  
 Limit value : 0,0023 mg/l  
 Safety factor : 100  
 Limit value type : PNEC aquatic, intermittent release ( A MIXTURE OF :ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-

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HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Limit value : 0,028 mg/l  
 Safety factor : 100  
 Limit value type : PNEC aquatic, marine water ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Limit value : 0,00023 mg/l  
 Safety factor : 1000  
 Limit value type : PNEC sediment, freshwater ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Limit value : 3,37 mg/kg  
 Limit value type : PNEC sediment, marine water ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZO TRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Limit value : 0,337 mg/kg  
 Limit value type : PNEC soil, freshwater ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Limit value : 2 mg/kg  
 Safety factor : 50  
 Limit value type : PNEC sewage treatment plant (STP) ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZO TRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE))

Limit value : 10 mg/l  
 Safety factor : 100  
 Limit value type : PNEC aquatic, freshwater ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4- PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Limit value : 0,0022 mg/l  
 Safety factor : 100  
 Limit value type : PNEC aquatic, intermittent release ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Limit value : 0,009 mg/l  
 Safety factor : 100  
 Limit value type : PNEC aquatic, marine water ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4- PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Limit value : 0,00022 mg/l  
 Safety factor : 1000  
 Limit value type : PNEC sediment, freshwater ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4- PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Limit value : 1,05 mg/kg  
 Limit value type : PNEC sediment, marine water ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4- PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL

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Limit value :	SEBACATE ) 0,11 mg/kg
Limit value type :	PNEC soil, freshwater ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )
Limit value :	0,21 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )
Limit value :	1 mg/l
Safety factor :	100
Limit value type :	PNEC aquatic, freshwater ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )
Exposure route :	Water (Including sewage plant)
Limit value :	0,6 µg/l
Safety factor :	3
Limit value type :	PNEC aquatic, marine water ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )
Exposure route :	Water (Including sewage plant)
Limit value :	2,36 µg/l
Safety factor :	3
Limit value type :	PNEC sediment, freshwater ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )
Exposure route :	Water (Including sewage plant)
Limit value :	9,5 mg/kg
Safety factor :	3
Limit value type :	PNEC sediment, marine water ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )
Exposure route :	Water (Including sewage plant)
Limit value :	9,5 mg/kg
Safety factor :	3
Limit value type :	PNEC soil, freshwater ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )
Limit value :	10,9 mg/kg
Safety factor :	2
Limit value type :	PNEC sewage treatment plant (STP) ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )
Exposure route :	Water (Including sewage plant)
Limit value :	0,37 mg/l
Safety factor :	10

## 8.2 Exposure controls

### Appropriate engineering controls

Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### Personal protection equipment

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

### Eye/face protection

#### Suitable eye protection

Use tightly fitting safety glasses.

### Skin protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

### Hand protection

Wear suitable gloves tested to EN374. Breakthrough time (maximum wearing time)



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**Suitable gloves type** : Disposable gloves.  
**Suitable material** : NR (natural rubber, natural latex)  
**Required properties** : liquid-tight.  
**Breakthrough time (maximum wearing time)** : > 60 min  
**Thickness of the glove material** : > 0,5 mm  
**Recommended glove articles** : DIN EN 374

#### Body protection

**Suitable protective clothing** : Overall  
**Recommended material** : Natural fibres (e.g. cotton)

#### Respiratory protection

Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits:  
P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter:  
up to a max. of

#### Consumer exposure controls

##### Measures related to consumer uses of the substance (as such or in preparations)

Do not allow to enter ground-water, surface water or drains, even not in small quantities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance** : liquid

#### Safety relevant basis data

<b>Physical state</b> :		liquid	
<b>Solidifying point</b> :	( 1013 hPa )	°C	
<b>Melting point/melting range</b> :	( 1013 hPa )	°C	
<b>Freezing point</b> :		°C	
<b>Initial boiling point and boiling range</b> :	( 1013 hPa )	°C	
<b>Decomposition temperature</b> :	( 1013 hPa )	°C	
<b>Flash point</b> :		°C	
<b>Ignition temperature</b> :		°C	
<b>Lower explosion limit</b> :		Vol-%	
<b>Upper explosion limit</b> :		Vol-%	
<b>Relative density</b> :	( 20 °C )		(Water = 1)
<b>Fat solubility</b> :	( 20 °C )	Wt %	
<b>PH</b> :			
<b>log P O/W</b> :			
<b>Odour threshold</b> :		mg/m <sup>3</sup>	
<b>Evaporation rate</b> :		(Ether = 1)	
<b>Application/surface</b> :			
<b>Certificate number</b> :			
<b>Colour</b> :			
<b>Odour</b> :			
<b>Density</b> :	( 20 °C )	g/cm <sup>3</sup>	
<b>Flow time</b> :	( 20 °C )	s	DIN-cup 4 mm
<b>Flow time</b> :	( 20 °C )	s	ISO cup 4 mm
<b>Flow time</b> :	( 20 °C )	s	ISO cup 6 mm
<b>Viscosity</b> :	( 20 °C )	mPa.s	NEN-ISO 2884

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

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## 10.1 Reactivity

No information available.

## 10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

## 10.3 Possibility of hazardous reactions

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

## 10.4 Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## 10.5 Incompatible materials

No information available.

## 10.6 Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )
Exposure route :	Oral
Species :	Rat
Effective dose :	3230 mg/kg
Parameter :	LD50 ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1098 mg/kg
Parameter :	LD50 ( 2,2'-BIPYRIDYL ; CAS No. : 366-18-7 )
Exposure route :	Oral
Species :	Rat
Effective dose :	100 mg/kg

##### Acute dermal toxicity

Parameter :	LD50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )
Exposure route :	Dermal

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Species : Rat  
Effective dose : > 3170 mg/kg  
Parameter : LD50 ( NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( 2,2'-BIPYRIDYL ; CAS No. : 366-18-7 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : 400 - 600 mg/kg

### Acute inhalation toxicity

Parameter : LC50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 5,8 mg/l  
Exposure time : 4 h

## SECTION 12: Ecological information

Avoid release to the environment. Refer to special instructions / safety data sheet.

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 2,8 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )  
Species : Brachydanio rerio (zebra-fish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,9 mg/l  
Exposure time : 96 h  
Parameter : LC0 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )  
Species : Brachydanio rerio (zebra-fish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,46 mg/l  
Exposure time : 96 h

##### Chronic (long-term) fish toxicity

Parameter : Chronic (long-term) fish toxicity ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )  
Species : Lepomis macrochirus (Bluegill)

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Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 3,8 mg/l  
Exposure time : 96 h

### Acute (short-term) daphnia toxicity

Parameter : EC50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )

Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 4 mg/l  
Exposure time : 48 h

Parameter : EC0 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )

Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 1 mg/l  
Exposure time : 48 h

Parameter : EC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 20 mg/l  
Exposure time : 24 h

Parameter : EC0 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : < 10 mg/l  
Exposure time : 24 h

### Chronic (long-term) daphnia toxicity

Parameter : NOEC ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )

Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,23 mg/l  
Exposure time : 504 h

Parameter : NOEC ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 1 mg/l  
Exposure time : 504 h

Parameter : LOEC ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE )

Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 1,6 mg/l  
Exposure time : 504 h

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## Acute (short-term) algae toxicity

Parameter : EC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE)  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1,68 mg/l  
Exposure time : 72 h

## 12.2 Persistence and degradability

No information available.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Avoid release to the environment. Refer to special instructions / safety data sheet. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous goods in sense of this transport regulation.

### 14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

### 14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

### 14.4 Packing group

No dangerous goods in sense of this transport regulation.

### 14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

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## EU legislation

EU limit value for this product (cat. A/d): 130 g/l (2010).

## Other regulations (EU)

**Information according to 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)**

## National regulations

GEEN / ZEER WEINIG OPLOSMIDDEL. VOLDOET VOOR PROFESSIONEEL GEBRUIK BINNEN AAN ARBO. Vos gehalte Arbo Nederland: Groep A: < 100 gram VOS per liter.

## 15.2 Chemical Safety Assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Special rules for supplemental label elements for certain mixtures · 02. Labelling (67/548/EEC or 1999/45/EC) - Hazard components for labelling · 02. Special provisions concerning the labelling of certain mixtures · 03. Hazardous ingredients · 08. Occupational exposure limit values

### 16.2 Abbreviations and acronyms

a.i. = Active ingredient  
ACGIH = American Conference of Governmental Industrial Hygienists (US)  
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
AFFF = Aqueous Film Forming Foam  
AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)  
AOAC = AOAC International (formerly Association of Official Analytical Chemists)  
aq. = Aqueous  
ASTM = American Society of Testing and Materials (US)  
atm = Atmosphere(s)  
B.V. = Beperkt Vennootschap (Limited)  
BCF = Bioconcentration Factor  
bp = Boiling point at stated pressure  
bw = Body weight  
ca = (Circa) about  
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)  
CEFIC = European Chemical Industry Council (established 1972)  
CIPAC = Collaborative International Pesticides Analytical Council  
CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Conc = Concentration  
cP = CentiPoise  
cSt = Centistokes  
d = Day(s)  
DIN = Deutsches Institut für Normung e.V.  
DNEL = Derived No-Effect Level  
DT50 = Time for 50% loss; half-life  
EbC50 = Median effective concentration (biomass, e.g. of algae)  
EC = European Community; European Commission  
EC50 = Median effective concentration  
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)  
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)  
ErC50 = Median effective concentration (growth rate, e.g. of algae)  
EU = European Union  
EWC = European Waste Catalogue  
FAO = Food and Agriculture Organization (United Nations)  
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife)

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International)  
h = Hour(s)  
hPa = HectoPascal (unit of pressure)  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IC50 = Concentration that produces 50% inhibition  
IMDG Code = International Maritime Dangerous Goods Code  
IMO = International Maritime Organization  
ISO = International Organization for Standardization  
IUCLID = International Uniform Chemical Information Database  
IUPAC = International Union of Pure and Applied Chemistry  
kg = Kilogram  
Kow = Distribution coefficient between n-octanol and water  
kPa = KiloPascal (unit of pressure)  
LC50 = Concentration required to kill 50% of test organisms  
LD50 = Dose required to kill 50% of test organisms  
LEL = Lower Explosive Limit/Lower Explosion Limit  
LOAEL = Lowest observed adverse effect level  
mg = Milligram  
min = Minute(s)  
ml = Milliliter  
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)  
mp = Melting point  
MRL = Maximum Residue Limit  
MSDS = Material Safety Data Sheet  
n. o. s. = Not Otherwise Specified  
NIOSH = National Institute for Occupational Safety and Health (US)  
NOAEL = No Observed Adverse Effect Level  
NOEC = No observed effect concentration  
NOEL = No Observable Effect Level  
NOx = Oxides of Nitrogen  
OECD = Organization for Economic Cooperation and Development  
OEL = Occupational Exposure Limits  
Pa = Pascal (unit of pressure)  
PBT = Persistent, Bioaccumulative or Toxic  
pH = -log<sub>10</sub> hydrogen ion concentration  
pKa = -log<sub>10</sub> acid dissociation constant  
PNEC = Previsible Non Effect Concentration  
POPs = Persistent Organic Pollutants  
ppb = Parts per billion  
PPE = Personal Protection Equipment  
ppm = Parts per million  
ppt = Parts per trillion  
PVC = Polyvinyl Chloride  
QSAR = Quantitative Structure-Activity Relationship  
REACH = Registration, Evaluation and Authorization of Chemicals (EU, see NCP)  
SI = International System of Units  
STEL = Short-Term Exposure Limit  
tech. = Technical grade  
TSCA = Toxic Substances Control Act (US)  
TWA = Time-Weighted Average  
vPvB = Very Persistent and Very Bioaccumulative  
WHO = World Health Organization = OMS  
y = Year(s)

## 16.3 Key literature references and sources for data

None

## 16.5 Relevant R-, H- and EUH-phrases (Number and full text)

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H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
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.
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R25	Toxic if swallowed.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.

## 16.6 Training advice

None

## 16.7 Additional information

None

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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.

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