

Safety Data Sheet

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



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

Version : 1.0.0

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

1.1 Product identifier

Ankolux Aqua System TP ZM Blank (17-0658-000)

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-HYDROXYPHENYL)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

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

Alcohol resistant foam; Carbon dioxide (CO2) Extinguishing powder; Water mist;

Unsuitable extinguishing media

Strong water jet

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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



8.1 Control parameters

Occupational exposure limit values

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

Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 308 mg/m³
Remark : H
Version : 08-06-2000
Limit value type (country of origin) : Exposure Limit (8h) (NL)
Limit value : 300 mg/m³
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/m³
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))

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 0,35 mg/m³
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-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 : 0,5 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)

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SEBACATE)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 0,58 mg/m³
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/m³
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/m³
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)

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/m³
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)

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Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	2,35 mg/m ³
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 ³
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 ³
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 ³
PNEC	
Limit value type :	PNEC aquatic, freshwater (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))
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-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZO TRIAZOL-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-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE-NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZO TRIAZOL-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-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE-

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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-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZO TRIAZOL-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-BENZO TRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZO TRIAZOL-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-HYDROXPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZO TRIAZOL-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 SEBACATE)

Limit value: 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

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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)

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

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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

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

9.2 Other information

None

SECTION 10: Stability and reactivity

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.

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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-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))

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

Acute dermal toxicity

Parameter : LD50 (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))

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
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

Acute inhalation toxicity

Parameter : LC50 (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))

Exposure route : Inhalation
Species : Rat
Effective dose : > 5,8 mg/l
Exposure time : 4 h

SECTION 12: Ecological information

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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)

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-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 : 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-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 : 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

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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-HYDROXYPHE- NYL)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

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

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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

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

None

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

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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 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)

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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 = -log₁₀ hydrogen ion concentration
pKa = -log₁₀ 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)

H302	Harmful if swallowed.
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.
R22	Harmful 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

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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