

Safety Data Sheet

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



Trade name : Aplex Aqua Woodcoat Indu S Wit
Revision date : 22.10.2019
Print date : 22-10-2019

Version (Revision) : 10.0.0 (9.0.0)

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

1.1 Product identifier

Aplex Aqua Woodcoat Indu S Wit (17-0695-110)

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

Coating for industry. 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 Terwispel

Telephone : +31 513 - 46 50 00

Telefax : +31 513 - 46 50 30

Information contact : info@ankerstuy.nl

1.4 Emergency telephone number

(Office hours 08:00 - 16:30 GMT +1). Outside office hours: call a Poison Center or doctor/physician.

Bundesinstitut für Risikobewertung: +49 30-18412-3460

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin Sens. 1A ; H317 - Skin sensitisation : Category 1A ; May cause an allergic skin reaction.

Hazard classes and hazard categories

Skin Sens. 1A · Aquatic Acute 3

Physical hazards

Flammable gases : No

Flammable aerosol : No

Flammable Liquids : No

Health hazards

Acute toxicity (oral) : No

ATE - oral not relevant mg/kg

Percentage of ingredients of unknown toxicity (oral) : 0 %

Acute toxicity (dermal) : No

ATE - dermal not relevant mg/kg

Percentage of ingredients of unknown toxicity (dermal) : 0 %

Acute toxicity (inhalation) : No

ATE - inhalative (vapour) not relevant mg/l

Percentage of ingredients of unknown toxicity (inhalation) : 0 %

Percentage of ingredients of unknown toxicity : 0 %

Skin Corrosion / Irritation : No

Serious eye damage / eye irritation : No

Specific target organ toxicity (single exposure) : No

Specific target organ toxicity (Respiratory tract irritation) : No

Specific target organ toxicity (Narcosis) : No

Aspiration hazard : No

Sensitisation (Respiratory) : No

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Sensitisation (Skin) : Category 1A
Germ cell mutagenicity : No
Carcinogenicity : No
Reproductive toxicity : No
Reproductive toxicity, Effects on or via lactation : No
Specific target organ toxicity (Repeated exposure) : No

Environmental hazards

Acute aquatic toxicity : Category 3
Percentage of ingredients of unknown hazards to the aquatic environment (acute) : 0 %
Chronic aquatic toxicity : No
Percentage of ingredients of unknown hazards to the aquatic environment (chronic) : 0 %
Percentage of ingredients of unknown hazards to the aquatic environment : 0 %
Skin Sens. 1A · Aquatic Acute 3

2.2 Label elements

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

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

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-HYDROXPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONILOXYPPPLY(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 ; CAS No. : 1065336-91-5
NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2
A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see instructions on this label).
P302+P352 IF ON SKIN: Wash with plenty of water/....

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

TITANIUM DIOXIDE ; REACH registration No. : 01-2119489379-17 ; EC No. : 236-675-5; CAS No. : 13463-67-7
Weight fraction : $\geq 10 - < 25$ %

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Classification 1272/2008 [CLP] : None

SILICON DIOXIDE ; REACH registration No. : 01-2119379499-16 ; EC No. : 231-545-4; CAS No. : 7631-86-9

Weight fraction : < 2,5 %

Classification 1272/2008 [CLP] : None

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)PROPIONYLOXYPPLY(OXYETHYLENE) ; REACH registration No. : 01-0000015075-76 ; EC No. : 400-830-7

Weight fraction : $\geq 0,1 - < 1$ %

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; CAS No. : 1065336-91-5

Weight fraction : $\geq 0,1 - < 0,25$ %

Classification 1272/2008 [CLP] : Skin Sens. 1A ; 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 : $\geq 0,1 - < 1$ %

Classification 1272/2008 [CLP] : STOT RE 1 ; H372 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; EC No. : 259-627-5; CAS No. : 55406-53-6

Weight fraction : $\geq 0,025 - < 0,1$ %

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H331 STOT RE 1 ; H372 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9

Weight fraction : $\geq 0,00015 - < 0,0015$ %

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

Full text of 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

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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;

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.

Storage class (TRGS 510) : 12

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

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SECTION 8: Exposure controls/personal protection



PBM-code: B

8.1 Control parameters

None

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

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

Freezing point : (1013 hPa)

0 °C

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Initial boiling point and boiling range :	(1013 hPa)	100 °C	
Decomposition temperature :	(1013 hPa)	No data available	
Flash point :		not applicable	
Ignition temperature :		No data available	
Lower explosion limit :		No data available	
Upper explosion limit :		No data available	
Vapour pressure :	(50 °C)	No data available	
Relative density :	(20 °C)	1,19 - 1,24	(Water = 1)
Water solubility :	(20 °C)	soluble	
Fat solubility :	(20 °C)	No data available.	
pH :		8,5 - 9,5	
log P O/W :		No data available	
Cinematic viscosity :	(40 °C)	No data available	
Odour threshold :		No data available	
Relative vapour density :	(20 °C)	No data available	
Evaporation rate :		No data available	
Colour :		white and derivative white colours	
Odour :		slight inherent	
Solid content :		approx. 46	mass-%
Density :	(20 °C)	1,19 - 1,24	g/cm ³
Viscosity :	(20 °C)	400 - 500	mPa.s NEN-ISO 2884
Oxidising liquids :		No data available.	
Explosive properties :		No data available.	

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.

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 (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Exposure route : Oral

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Species : Rat
Effective dose : 5000 mg/kg bw
Parameter : LD50 (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Exposure route : Oral
Species : Rat
Effective dose : 5000 mg/kg bw
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-HYDROXPHE- NYL)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 bw
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 ; CAS No. : 1065336-91-5)
Exposure route : Oral
Species : Rat
Effective dose : 3230 mg/kg bw
Parameter : LD50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Exposure route : Oral
Species : Rat
Effective dose : 1098 mg/kg bw
Parameter : LD50 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route : Oral
Species : Rat
Effective dose : 1056 mg/kg bw

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-HYDROXPHE- NYL)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 bw
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 ; CAS No. : 1065336-91-5)
Exposure route : Dermal
Species : Rat
Effective dose : 3170 mg/kg bw
Parameter : LD50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Exposure route : Dermal
Species : Rat
Effective dose : 2000 mg/kg bw
Parameter : LD50 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg bw

Acute inhalation toxicity

Parameter : LC50 (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Exposure route : Inhalation
Species : Rat
Effective dose : 3,43 - 6,82 mg/L air

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Exposure time : 4 h
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/m³
Parameter : LC50 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route : Inhalative (dust, mist)
Species : Rat
Effective dose : 670 mg/m³

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

Parameter : NOAEL(C) (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Exposure route : Oral
Species : Rat
Effective dose : 2500 mg/kg bw/day
Parameter : NOAEL(C) (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 : Oral
Species : Rat
Effective dose : 5 mg/kg bw/day
Parameter : LOAEL(C) (REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE ; CAS No. : 1065336-91-5)
Exposure route : Oral
Species : Rat
Effective dose : 29 mg/kg bw/day
Parameter : NOAEL(C) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route : Oral
Species : Rat
Effective dose : 20 mg/kg bw/day

Subacute dermal toxicity

Parameter : NOAEL(C) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route : Dermal
Species : Rat
Effective dose : 200 mg/kg bw/day

Subacute inhalation toxicity

Parameter : NOAEL(C) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route : Inhalation
Species : Rat
Effective dose : 1,16 mg/m³

STOT-single exposure

STOT SE 1 and 2

Parameter : NOAEL(C) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route : Oral
Species : Rat
Effective dose : 35 mg/kg
Exposure time : 90 days
Parameter : NOAEL(C) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)

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Exposure route : Oral
Species : Rat
Effective dose : 20 mg/kg
Exposure time : 24 month
Parameter : NOAEL(C) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route : Dermal
Species : Rat
Effective dose : 200 mg/kg
Exposure time : 90 days
Parameter : NOAEL(C) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route : Inhalative
Species : Rat
Effective dose : 1,16 mg/m³
Exposure time : 90 days

11.5 Additional information

Contains one or more sensitising substance(s). May produce an allergic reaction.

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 (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Effective dose : 870 - 1100 µg/l
Exposure time : 14 days
Parameter : NOEC (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Effective dose : 870 - 1100 µg/l
Exposure time : 14 days
Parameter : LC50 (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 1,033 - 1,289 g/l
Exposure time : 4 days
Parameter : LLO (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 10 g/l
Exposure time : 4 days
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)PROPIONYLOXYPLY(OXYETHYLENE))
Effective dose : 2,8 mg/l
Exposure time : 4 days
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 ; CAS No. : 1065336-91-5)
Effective dose : 0,9 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 89 - 91 µg/l
Exposure time : 30 min
Parameter : LOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 24 - 180 µg/l
Exposure time : 30 min

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Parameter : LC50 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 67 µg/l
Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 57,001 - 86,03 mg/l
Exposure time : 30 days
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 2,2 mg/l
Exposure time : 81 days
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 210 - 790 µg/l
Exposure time : 34 days
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 1,02 - 2,14 mg/l
Exposure time : 33 days
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 31,196 mg/l
Exposure time : 28 days
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 99,098 mg/l
Exposure time : 6 days
Parameter : NOEC (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Species : Pimephales promelas (fathead minnow)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 8,4 µg/l
Exposure time : 35 days

Acute (short-term) daphnia toxicity

Parameter : LC50 (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Effective dose : 500 mg/l
Exposure time : 48 h
Parameter : EL50 (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 1 g/l
Exposure time : 24 h
Parameter : EL0 (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 1 g/l
Exposure time : 24 h
Parameter : LC50 (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 2,594 g/l
Exposure time : 4 days
Parameter : LC50 (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 512,078 mg/l
Exposure time : 48 h
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)PROPIONYLOXYPLY(OXYETHYLENE))
Effective dose : 4 mg/l
Exposure time : 48 h
Parameter : EC50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 2,827 mg/l
Exposure time : 4 days

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Parameter : EC50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 2,321 mg/l
Exposure time : 72 h
Parameter : EC50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 2,618 - 3,703 mg/l
Exposure time : 48 h
Parameter : LC50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 605 µg/l
Exposure time : 48 h
Parameter : EC10 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 1,786 mg/l
Exposure time : 4 days
Parameter : EC50 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 645 µg/l
Exposure time : 48 h

Chronic (long-term) daphnia toxicity

Parameter : NOEC (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Effective dose : 1,72 - 5 mg/l
Exposure time : 21 days
Parameter : NOEC (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Effective dose : 100 mg/l
Exposure time : 28 days
Parameter : LOEC (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Effective dose : 5 mg/l
Exposure time : 21 days
Parameter : NOEC (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 34,223 - 346,737 mg/l
Exposure time : 30 days
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 ; CAS No. : 1065336-91-5)
Effective dose : 1 mg/l
Exposure time : 21 days
Method : OECD 211
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 334,3 µg/l
Exposure time : 4 month
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 712,9 µg/l
Exposure time : 42 days
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 6,83 - 3730 µg/l
Exposure time : 28 days
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 60,8 - 93,3 µg/l
Exposure time : 21 days
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 237 - 973 µg/l
Exposure time : 20 days
Parameter : NOEC (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 49,9 µg/l

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Exposure time : 21 days

Acute (short-term) algae toxicity

Parameter : EC50 (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Effective dose : 100 mg/l
Exposure time : 72 h
Parameter : NOEC (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Effective dose : 1 mg/l
Exposure time : 32 days
Parameter : NOEC (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Effective dose : 100 mg/l
Exposure time : 72 h
Parameter : EC50 (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 217,576 - 217,6 mg/l
Exposure time : 4 days
Parameter : NOELR (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 10 g/l
Exposure time : 72 h
Parameter : EL50 (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 10 g/l
Exposure time : 72 h
Parameter : NOEC (SILICON DIOXIDE ; CAS No. : 7631-86-9)
Effective dose : 42,1 - 42,11 mg/l
Exposure time : 30 days
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)PROPIONYLOXYPLY(OXYETHYLENE))
Effective dose : 9 mg/l
Exposure time : 72 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 ; CAS No. : 1065336-91-5)
Effective dose : 1,68 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 24,1 µg/l
Exposure time : 7 days
Parameter : EC50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 71,314 mg/l
Exposure time : 4 days
Parameter : EC50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 144 µg/l
Exposure time : 7 days
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 1,8 µg/l
Exposure time : 7 days
Parameter : NOEC (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 4,672 mg/l
Exposure time : 4 days
Parameter : ErC50 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Species : Scenedesmus subspicatus
Evaluation parameter : Inhibition of growth rate
Effective dose : 53 µg/l

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Exposure time : 72 h
Parameter : EC10 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Effective dose : 4,6 µg/l
Exposure time : 72 h

Bacteria toxicity

Parameter : EC50 (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Effective dose : 1 g/l
Exposure time : 3 h
Parameter : IC50 (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)PROPIONYLOXYPLY(OXYETHYLENE))
Effective dose : 1 g/l
Exposure time : 3 h
Parameter : IC50 (REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE ; CAS No. : 1065336-91-5)
Effective dose : 100 mg/l
Exposure time : 3 h
Parameter : EC50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 120 mg/l
Exposure time : 30 min
Parameter : EC10 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Effective dose : 3,73 mg/l
Exposure time : 30 min
Parameter : EC50 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Effective dose : 44 mg/l
Exposure time : 3 h

12.2 Persistence and degradability

Biodegradation

Parameter : BOD (% of ThOD) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Inoculum : Biodegradation
Effective dose : 25 %
Exposure time : 28 days
Parameter : CO2 formation (% of the theoretical value) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Effective dose : > 75,3 %
Exposure time : 21 days

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9)
Concentration : < 100
Parameter : Partition coefficient n-octanol /water (log P O/W) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Concentration : 2,81
Parameter : Log KOC (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Concentration : 2,6

12.4 Mobility in soil

Adsorption/Desorption

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Parameter : Henry's Law Constant (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Effective dose : 0,00338 Pa.m³/Mol

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 good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

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/e): 130 g/l VOC.

Other regulations (EU)

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

VOC-value : 14 g/l

National regulations

(NETHERLANDS) VOC content according to Dutch occupational safety and health regulations: Group A: < 150 grams of VOC per liter.

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

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Water hazard class (WGK)

Class : 2 (Significant hazardous to water) Classification according to AwSV

Percentage of carcinogenic substances WGK 3 : - 0 %

Percentage of carcinogenic substances WGK 2 : - 0 %

Percentage of carcinogenic substances : - 0 %

Percentage of substances WGK 3 : - 0 %

Percentage of substances WGK 3 with M-Factor : - 0,4 %

Percentage of substances WGK 3 (nwg) : + 0,04083 %

Percentage of substances WGK 2 : - 0 %

Percentage of substances WGK 2 with M-Factor : - 0 %

Percentage of substances WGK 1 : - 1,66492 %

Percentage of substances non-hazardous to water (nwg) : 97,6255 %

Percentage of substances unidentified : - 0 %

Percentage of substances unidentified (nwg) : - 0 %

Percentage of floating liquids : 0 %

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 07. Hints on joint storage - Storage class · 08. DNEL/DMEL · 08. PNEC · 15. Water hazard class (WGK)

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)

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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)
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

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y = Year(s)

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H372	Causes 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.

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.