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

Trade name :	Hydrolux Topcoat Gloss White / Base P		
Revision date :	22.10.2019	**Version (Revision) :**	1.2.0 (1.1.0)
Print date :	05-11-2019		

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

1.1 Product identifier
Hydrolux Topcoat Gloss White / Base P (17-0647-110)

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

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 · Aquatic Chronic 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
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 : Category 3
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 · Aquatic Chronic 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

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
1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5

Hazard statements

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see instuctions 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 : ≥ 10 - < 25 %
Classification 1272/2008 [CLP] : None

1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; REACH registration No. : 01-2119451543-42 ; EC No. : 249-951-5; CAS No. :

29911-28-2

Weight fraction : ≥ 2,5 - < 10 %

Classification 1272/2008 [CLP] : None

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 : ≥ 0,25 - < 2,5 %

Classification 1272/2008 [CLP] : Skin Sens. 1A ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

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

Weight fraction : ≥ 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

1,2-BENZISOTHIAZOL-3(2H)-ONE ; REACH registration No. : 01-2120761540-60 ; EC No. : 220-120-9; CAS No. : 2634-33-5

Weight fraction : ≥ 0,005 - < 0,05 %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400

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

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

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)	No data available	
Initial boiling point and boiling range :	(1013 hPa)	No data available	
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)	1,11 - 1,16	(Water = 1)
Water solubility :	(20 °C)	No data available	
Fat solubility :	(20 °C)	No data available.	
pH :		No data available	
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 :			various colours		
Odour :			slight inherent		
Solid content :		approx.	46	mass-%	
Density :	(20 °C)		1,11 - 1,16	g/cm^3	
Viscosity :	(20 °C)		No data available		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
Species :	Rat
Effective dose :	5000 mg/kg bw
Parameter :	LD50 (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	2610 - 4400 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 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	1056 mg/kg bw

Parameter :	LD50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	490 mg/kg bw

Acute dermal toxicity

Parameter :	LD0 (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
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 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg bw
Parameter :	LD50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Exposure route :	Dermal
Species :	Rat
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
Exposure time :	4 h
Parameter :	LC0 (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	2,04 - 5,4 mg/L air
Exposure time :	4 h
Parameter :	LC0 (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	42,1 ppm
Exposure time :	4 h
Parameter :	LC50 (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route :	Inhalative (dust, mist)
Species :	Rat
Effective dose :	670 mg/m^3

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

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
Parameter :	NOAEL(C) (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	69 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 :	LOAEL(C) (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	40 ppm
Parameter :	NOAEL(C) (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	200 mg/m^3 air
Parameter :	NOAEL(C) (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	40 ppm
Parameter :	NOAEL(C) (3-IODO-2-PROPYNYL BUTYLCARBAMATE (IPBC) ; CAS No. : 55406-53-6)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	1,16 mg/m^3

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)
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/m^3
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 (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Effective dose :	841 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 :	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 (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 :	EC50 (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Effective dose :	100 mg/l
Exposure time :	48 h
Parameter :	EC0 (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Effective dose :	100 mg/l
Exposure time :	48 h
Parameter :	EC100 (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Effective dose :	100 mg/l
Exposure time :	48 h
Parameter :	NOEC (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Effective dose :	1 g/l
Exposure time :	48 h
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 (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 (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
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 (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Effective dose :	519 mg/l
Exposure time :	4 days
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 :	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
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 :	EC50 (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Effective dose :	1 g/l
Exposure time :	30 min
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 (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 :	Biodegradation (1-(2-BUTOXY-1-METHYLETHOXY)PROPAN-2-OL ; CAS No. : 29911-28-2)
Effective dose :	100 %
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 :	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

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

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/d): 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 : 44 g/l

National regulations

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) : + 0,04 %
Percentage of substances WGK 2 : - 0 %
Percentage of substances WGK 2 with M-Factor : - 0 %
Percentage of substances WGK 1 : - 0,28 %
Percentage of substances non-hazardous to water (nwg) : 99,37279 %
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
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)
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 Bioacccumulative
WHO = World Health Organization = OMS
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)

H302	Harmful if swallowed.
H315	Causes skin irritation.
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.

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.