

## SAFETY DATA SHEET

## Raincheck Universal Waterseal

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

## 1.1. Product identifier

## Trade name

Raincheck Universal Waterseal

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

## Relevant identified uses of the substance or mixture

Water repellent

## EuPCS

PC-CON-5 / Construction chemicals

## Uses advised against

None known.

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

## Company and address

**Safeguard Europe Ltd.**

Redkiln Close

Horsham

RH13 5QL West Sussex

United Kingdom

T: +44 (0)1403 210204

F: +44 (0)1403 217529

[www.safeguardeurope.com](http://www.safeguardeurope.com)

## E-mail

[info@safeguardeurope.com](mailto:info@safeguardeurope.com)

## Revision

25/10/2024

## SDS Version

4.0

## Date of previous version

25/10/2024 (1.0)

## 1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 112 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)

See section 4 "First aid measures".

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

## 2.2. Label elements

## Hazard pictogram(s)

Not applicable.

## Signal word

Not applicable.

## Hazard statement(s)

Not applicable.

## Precautionary statement(s)

General

Keep out of reach of children. (P102)

Prevention

-

Response

-

Storage

-

Disposal

-

Hazardous substances

None known.

Additional labelling

EUH208, Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

May produce an allergic reaction.

EUH210, Safety data sheet available on request.

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Triethoxyoctylsilane	CAS No.: 2943-75-1 EC No.: 220-941-2 UK-REACH: Index No.:	1-10%	Skin Irrit. 2, H315	
Dodecan-1-ol, ethoxylated	CAS No.: 9002-92-0 EC No.: 500-002-6 UK-REACH: Index No.:	<0.15%	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	
bronopol (INN);2-bromo-2-nitropropane-1,3-diol	CAS No.: 52-51-7 EC No.: 200-143-0 UK-REACH: Index No.: 603-085-00-8	<0.05%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10)	
Cetrimonium chloride	CAS No.: 112-02-7 EC No.: 203-928-6 UK-REACH: Index No.:	<0.025%	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No.: 55965-84-9 EC No.: 611-341-5 UK-REACH: Index No.: 613-167-00-5	<0.0015%	EUH071 Acute Tox. 3, H301 Acute Tox. 2, H310 Skin Corr. 1C, H314 (SCL: 0.60 %) Skin Irrit. 2, H315 (SCL: 0.06 %) Skin Sens. 1A, H317 (SCL: 0.0015 %) Eye Dam. 1, H318 (SCL: 0.60 %) Eye Irrit. 2, H319 (SCL: 0.06 %)	

Acute Tox. 2, H330  
Aquatic Acute 1, H400 (M=100)  
Aquatic Chronic 1, H410 (M=100)

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

-

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

##### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

##### Skin contact

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

##### Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

##### Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

##### Burns

Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

Treat symptomatically.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Not applicable.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

#### 5.3. Advice for firefighters

No specific requirements.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation, especially in confined areas.  
Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.  
Keep unauthorized persons away from the spill

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.  
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.  
See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.  
See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Keep only in original packaging.

#### Storage conditions

Dry, cool and well ventilated

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Propane-1,2-diol

Long term exposure limit (8 hours) (ppm): 150(total)

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 474(total)/10(particulates)

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

### DNEL

bronopol (INN);2-bromo-2-nitropropane-1,3-diol

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Dermal	4 µg/cm <sup>2</sup>
Long term – Local effects - Workers	Dermal	8 µg/cm <sup>2</sup>
Long term – Systemic effects - General population	Dermal	700 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	2 mg/kg bw/day
Short term – Local effects - General population	Dermal	4 µg/cm <sup>2</sup>
Short term – Local effects - Workers	Dermal	8 µg/cm <sup>2</sup>
Short term – Systemic effects - General population	Dermal	2.1 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	6 mg/kg bw/day
Long term – Local effects - General population	Inhalation	600 µg/m <sup>3</sup>

Long term – Local effects - Workers	Inhalation	2.5 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	600 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	3.5 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	600 µg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	2.5 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	1.8 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	10.5 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	180 µg/kg bw/day
Short term – Systemic effects - General population	Oral	500 µg/kg bw/day

#### Dodecan-1-ol, ethoxylated

<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	167 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	467 µg/kg bw/day
Long term – Systemic effects - General population	Inhalation	290 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	1.64 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	167 µg/kg bw/day

#### Propane-1,2-diol

<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Local effects - General population	Inhalation	10 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	10 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	50 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	168 mg/m <sup>3</sup>

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Local effects - General population	Inhalation	20 µg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	20 µg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	40 µg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	40 µg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	90 µg/kg bw/day
Short term – Systemic effects - General population	Oral	110 µg/kg bw/day

#### Triethoxyoctylsilane

<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	1.25 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	2.5 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	4.3 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	17.6 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	1.25 mg/kg bw/day

#### PNEC

##### bronopol (INN);2-bromo-2-nitropropane-1,3-diol

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		1.25 µg/L
Freshwater sediment		21.5 µg/kg
Intermittent release (freshwater)		265 ng/L
Marine water		520 ng/L
Marine water sediment		8.944 µg/kg

Sewage treatment plant		430 µg/L
Soil		210 µg/kg
<b>Cetrimonium chloride</b>		
<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		420 ng/L
Freshwater sediment		68 mg/kg
Intermittent release (freshwater)		120 ng/L
Intermittent release (marine water)		12 ng/L
Marine water		41.5 ng/L
Marine water sediment		6.8 mg/kg
Sewage treatment plant		400 µg/L
Soil		1.66 mg/kg
<b>Dodecan-1-ol, ethoxylated</b>		
<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		13.9 µg/L
Freshwater sediment		111 µg/kg
Intermittent release (freshwater)		24.3 µg/L
Intermittent release (marine water)		2.43 µg/L
Marine water		1.39 µg/L
Marine water sediment		11.1 µg/kg
Sewage treatment plant		250 µg/L
Soil		14.1 µg/kg
<b>Propane-1,2-diol</b>		
<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		260 mg/L
Freshwater sediment		572 mg/kg
Intermittent release (freshwater)		183 mg/L
Marine water		26 mg/L
Marine water sediment		57.2 mg/kg
Sewage treatment plant		20 g/L
Soil		50 mg/kg
<b>reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b>		
<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		3.39 µg/L
Freshwater sediment		27 µg/kg
Intermittent release (freshwater)		3.39 µg/L
Intermittent release (marine water)		3.39 µg/L
Marine water		3.39 µg/L
Marine water sediment		27 µg/kg
Sewage treatment plant		230 µg/L
Soil		10 µg/kg
<b>Triethoxyoctylsilane</b>		
<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater sediment		1.9-19 mg/kg

Marine water sediment	190-1900 µg/kg
Predators	56 mg/kg
Soil	230-4470 µg/kg

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

### Measures to avoid environmental exposure

No specific requirements.

## Individual protection measures, such as personal protective equipment

### Generally

Use only UKCA marked protective equipment.

### Respiratory Equipment

Type	Class	Colour	Standards
Respiratory protection is not needed in the event of adequate ventilation.			

### Skin protection

Recommended	Type/Category	Standards
Dedicated work clothing should be worn.	-	-



### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Butyl	0,3	> 120	EN374-2, EN374-3, EN388
Nitrile	0,2	> 480	EN374-2, EN374-3, EN388



### Eye protection

Type	Standards
Safety glasses	EN166



## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Colour

White

#### Odour / Odour threshold

No relevant or available data due to the nature of the product.

#### pH

No relevant or available data due to the nature of the product.

#### Density (g/cm<sup>3</sup>)

No relevant or available data due to the nature of the product.

#### Kinematic viscosity

No relevant or available data due to the nature of the product.

#### Particle characteristics

Does not apply to liquids.

### Phase changes

#### Melting point/Freezing point (°C)

No relevant or available data due to the nature of the product.

#### Softening point/range (°C)

Does not apply to liquids.

#### Boiling point (°C)

No relevant or available data due to the nature of the product.

#### Vapour pressure

No relevant or available data due to the nature of the product.

#### Relative vapour density

No relevant or available data due to the nature of the product.

#### Decomposition temperature (°C)

No relevant or available data due to the nature of the product.

### Data on fire and explosion hazards

#### Flash point (°C)

No relevant or available data due to the nature of the product.

#### Flammability (°C)

No relevant or available data due to the nature of the product.

#### Auto-ignition temperature (°C)

No relevant or available data due to the nature of the product.

#### Lower and upper explosion limit (% v/v)

No relevant or available data due to the nature of the product.

### Solubility

#### Solubility in water

No relevant or available data due to the nature of the product.

#### n-octanol/water coefficient (LogKow)

No relevant or available data due to the nature of the product.

#### Solubility in fat (g/L)

No relevant or available data due to the nature of the product.

### 9.2. Other information

#### Oxidizing properties

No relevant or available data due to the nature of the product.

#### Other physical and chemical parameters

No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

##### Acute toxicity

Product/substance	Triethoxyoctylsilane
Test method:	OECD 401
Species:	Rat, male/female
Route of exposure:	Oral
Test:	LD50
Result:	5110 mg/kg

Product/substance	Triethoxyoctylsilane
Test method:	OECD 402
Species:	Rabbit, male
Route of exposure:	Dermal
Test:	LD50
Result:	6730 mg/kg

Product/substance	Triethoxyoctylsilane
Test method:	OECD 402
Species:	Rabbit, female
Route of exposure:	Dermal
Test:	LD50
Result:	8000 mg/kg

Product/substance	Triethoxyoctylsilane
Test method:	OECD 403
Species:	Rat, male/female
Route of exposure:	Inhalation
Test:	LC50 (4 hours)
Result:	>22 ppm

Product/substance	Dodecan-1-ol, ethoxylated
Test method:	OECD 403
Species:	Rat, male/female
Route of exposure:	Inhalation
Test:	LC50 (4 hours)
Result:	>22 ppm

Product/substance	Dodecan-1-ol, ethoxylated
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg

Product/substance	Dodecan-1-ol, ethoxylated
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>2000 mg/kg

Product/substance	Propane-1,2-diol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>20000 mg/kg

Product/substance	Propane-1,2-diol
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Species: Rabbit  
 Route of exposure: Dermal  
 Test: LD50  
 Result: >2000 mg/kg

Product/substance: Propane-1,2-diol  
 Species: Rabbit  
 Route of exposure: Inhalation  
 Test: LC50 (2 hours)  
 Result: 317.042 mg/L

Product/substance: Cetrimonium chloride  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 699 mg/kg

Product/substance: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 64 mg/kg

Product/substance: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Species: Rabbit  
 Route of exposure: Dermal  
 Test: LD50  
 Result: 87.12 mg/kg

Product/substance: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50 (4 hours)  
 Result: 0.33 mg/L

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

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

#### Respiratory sensitisation

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

#### Skin sensitisation

Product/substance: bronopol (INN);2-bromo-2-nitropropane-1,3-diol  
 Test method: OECD 429  
 Species: Mouse  
 Result: No adverse effect observed (not sensitising)

Product/substance: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Test method: OECD 406  
 Species: Guinea pig  
 Result: Adverse effect observed (sensitising)

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

## 11.2. Information on other hazards

### Long term effects

None known.

### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

### Other information

None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance	Triethoxyoctylsilane
Test method:	OECD 203
Species:	Fish, <i>Oncorhynchus mykiss</i>
Duration:	96 hours
Test:	LC50
Result:	>0.055 mg/L
Product/substance	Triethoxyoctylsilane
Test method:	OECD 202
Species:	Daphnia, <i>Daphnia magna</i>
Duration:	48 hours
Test:	EC50
Result:	>0.049 mg/L
Product/substance	Triethoxyoctylsilane
Test method:	OECD 201
Species:	Algae, <i>Pseudokirchneriella subcapitata</i>
Duration:	72 hours
Test:	ErC50
Result:	>0.13 mg/L
Product/substance	Triethoxyoctylsilane
Test method:	OECD 201
Species:	Algae, <i>Pseudokirchneriella subcapitata</i>
Duration:	72 hours
Test:	NOEC
Result:	>0.13 mg/L
Product/substance	Triethoxyoctylsilane
Test method:	OECD 209
Compartment:	Activated Sludge Plant
Duration:	3 hours
Test:	EC50
Result:	>1000 mg/L
Product/substance	Triethoxyoctylsilane
Species:	Fish, <i>Pimephales promelas</i>
Duration:	32 days
Test:	NOEC
Result:	>0.036 mg/L
Product/substance	Triethoxyoctylsilane
Species:	Daphnia, <i>Daphnia magna</i>
Duration:	21 days
Test:	NOEC
Result:	>=0.199 mg/L
Product/substance	Dodecan-1-ol, ethoxylated
Species:	Fish, <i>Danio rerio</i>
Duration:	96 hours
Test:	LC50
Result:	> 1 - 10 mg/L

Product/substance Species: Duration: Test: Result:	Dodecan-1-ol, ethoxylated Daphnia, Daphnia magna 48 hours EC50 > 1 - 10 mg/L
Product/substance Species: Duration: Test: Result:	Dodecan-1-ol, ethoxylated Algae, Pseudokirchneriella subcapitata 72 hours EC50 > 0.1 - 1 mg/L
Product/substance Species: Duration: Test: Result:	Dodecan-1-ol, ethoxylated Algae, Pseudokirchneriella subcapitata 72 hours NOEC > 0.1 - 1 mg/L
Product/substance Species: Duration: Test: Result:	Dodecan-1-ol, ethoxylated Fish, Lepomis macrochirus 30 days NOEC > 0.1 - 1 mg/L
Product/substance Species: Duration: Test: Result:	Dodecan-1-ol, ethoxylated Daphnia, Daphnia magna 21 days NOEC > 0.1 - 1 mg/L
Product/substance Test method: Species: Duration: Test: Result:	Propane-1,2-diol OECD 203 Fish, Oncorhynchus mykiss 96 hours LC50 40613 mg/L
Product/substance Test method: Species: Duration: Test: Result:	Propane-1,2-diol OECD 202 Daphnia, Ceriodaphnia dubia 48 hours LC50 18340 mg/L
Product/substance Test method: Species: Duration: Test: Result:	Propane-1,2-diol OECD 201 Algae, Pseudokirchneriella subcapitata 96 hours ErC50 19000 mg/L
Product/substance Species: Duration: Test: Result:	Propane-1,2-diol Bacteria, Pseudomonas putida 18 hours NOEC >20000 mg/L
Product/substance Species: Duration: Test: Result:	Propane-1,2-diol Daphnia, Ceriodaphnia dubia 7 days NOEC 13020 mg/L
Product/substance Test method:	bronopol (INN);2-bromo-2-nitropropane-1,3-diol OECD 209

Compartment: Activated Sludge Plant  
 Duration: 3 hours  
 Test: EC50  
 Result: 43 mg/L

Product/substance bronopol (INN);2-bromo-2-nitropropane-1,3-diol  
 Test method: OECD 209  
 Compartment: Activated Sludge Plant  
 Duration: 3 hours  
 Test: EC20  
 Result: 2 mg/L

Product/substance Cetrimonium chloride  
 Test method: OECD 203  
 Species: Fish, Danio rerio  
 Duration: 96 hours  
 Test: LC50  
 Result: 0.19 mg/L

Product/substance Cetrimonium chloride  
 Test method: OECD 202  
 Species: Daphnia, Daphnia magna  
 Duration: 48 hours  
 Test: EC50  
 Result: 0.012 mg/L

Product/substance Cetrimonium chloride  
 Test method: OECD 201  
 Species: Algae, Pseudokirchneriella subcapitata  
 Duration: 72 hours  
 Test: ErC50  
 Result: 0.113 mg/L

Product/substance Cetrimonium chloride  
 Test method: OECD 201  
 Species: Algae, Pseudokirchneriella subcapitata  
 Duration: 72 hours  
 Test: NOEC  
 Result: 0.068 mg/L

Product/substance Cetrimonium chloride  
 Test method: DIN 38412  
 Species: Bacteria, Pseudomonas putida  
 Duration: 16 hours  
 Test: EC50  
 Result: 0.96 mg/L

Product/substance Cetrimonium chloride  
 Species: Fish, Pimephales promelas  
 Duration: 28 days  
 Test: NOEC  
 Result: 0.0322 mg/L

Product/substance Cetrimonium chloride  
 Species: Daphnia, Daphnia magna  
 Duration: 21 days  
 Test: NOEC  
 Result: 0.00415 mg/L

Product/substance reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Test method: OECD 209  
 Compartment: Activated Sludge Plant  
 Duration: 3 hours  
 Test: EC50  
 Result: 7,92 mg/L

Product/substance reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Test method: OECD 209  
 Compartment: Activated Sludge Plant  
 Duration: 3 hours  
 Test: EC20  
 Result: 0,97 mg/L

Product/substance reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Test method: OECD 203  
 Species: Fish, *Oncorhynchus mykiss*  
 Duration: 96 hours  
 Test: LC50  
 Result: 0.19 mg/L

Product/substance reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Test method: OECD 202  
 Species: Daphnia, *Daphnia magna*  
 Test: LC50  
 Result: 0.16 mg/L

Product/substance reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Test method: OECD 201  
 Species: *Skeletonema costatum*  
 Duration: 48 hours  
 Test: NOEC  
 Result: 0.00049 mg/L

Product/substance reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Test method: OECD 201  
 Species: *Skeletonema costatum*  
 Duration: 48 hours  
 Test: ErC50  
 Result: 0.0052 mg/L

Product/substance reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Species: Fish, *Oncorhynchus mykiss*  
 Duration: 14 days  
 Test: NOEC  
 Result: 0.05 mg/L

Product/substance reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Species: Daphnia, *Daphnia magna*  
 Duration: 21 days  
 Test: NOEC  
 Result: 0.1 mg/L

### 12.2. Persistence and degradability

Product/substance Triethoxyoctylsilane  
 Result: 31.5%  
 Conclusion: -  
 Test: OECD 301 D

Product/substance bronopol (INN);2-bromo-2-nitropropane-1,3-diol  
 Result: >70%  
 Conclusion: Readily biodegradable  
 Test: OECD 301 B

Product/substance reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Result: >60%  
 Conclusion: Readily biodegradable  
 Test: OECD 301 D

### 12.3. Bioaccumulative potential

Product/substance bronopol (INN);2-bromo-2-nitropropane-1,3-diol  
 BCF: 0,22  
 Conclusion: -

Test:	OECD 107
Product/substance	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
BCF:	3,6
LogKow:	-0,71 - 0,75
Conclusion:	No potential for bioaccumulation
Test:	OECD 107

#### 12.4. Mobility in soil

No data available.

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

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

#### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

#### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

### SECTION 13: Disposal considerations

#### Waste treatment methods

Product is not covered by regulations on dangerous waste.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

#### EWC code

08 01 12 Waste paint and varnish other than those mentioned in 08 01 11

#### Specific labelling

#### Contaminated packing

#### EWC code

15 01 02 Plastic packaging

### SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

#### Additional information

Not dangerous goods according to ADR, IATA and IMDG.

#### 14.6. Special precautions for user

Not applicable.

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

No data available.

### SECTION 15: Regulatory information

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

##### Restrictions for application

No special.

##### Demands for specific education

No specific requirements.

##### Control of Major Accident Hazards (COMAH) - Categories / dangerous substances

Not applicable.

#### Additional information

Not applicable.

#### Sources

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

#### Full text of H-phrases as mentioned in section 3

H301, Corrosive to the respiratory tract.

H302, Toxic if swallowed.

H302, Harmful if swallowed.

H310, Fatal in contact with skin.

H311, Toxic in contact with skin.

H312, Harmful in contact with skin.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H330, Fatal if inhaled.

H335, May cause respiratory irritation.

H400, Very toxic to aquatic life.

H410, Very toxic to aquatic life with long lasting effects.

H412, Harmful to aquatic life with long lasting effects.

#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

Not applicable.

#### The safety data sheet is validated by

1203

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en