

# SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **Specialno čistilo za kopalnice**  
Creation date: **3.8.2017** · Revision: **29.4.2020** · Version: **1**

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

#### Product name

**Specialno čistilo za kopalnice**



chemius.net/LyH58

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

#### Relevant identified uses

Bathroom cleaner.

#### Uses advised against

Only use for the intended purpose.

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

#### Supplier

Plastik SI, proizvodnja plastičnih izdelkov, d.o.o.  
Address: Kolodvorska cesta 9, 5213 Kanal, Slovenia  
Phone: +386 (0)5 3302600  
Fax: +386 (0)5 3302620  
E-mail: info@plastik.si

### 1.4. Emergency telephone number

#### Emergency

112

#### Supplier

+386 (0)5 3302600

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

Skin Irrit. 2; H315 Causes skin irritation.  
Skin Sens. 1; H317 May cause an allergic skin reaction.  
Eye Dam. 1; H318 Causes serious eye damage.

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## 2.2 Label elements

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



Signal word: **Danger**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with national regulation.

### 2.2.2. Contains:

alcohols, C12-14, ethoxylated, sulfates, sodium salts (CAS: 68891-38-3, EC: 500-234-8)

phosphoric acid (CAS: 7664-38-2, EC: 231-633-2, Index: 015-011-00-6)

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (CAS: 55965-84-9, Index: 613-167-00-5)

### 2.2.3. Special provisions

Special hazards are not known or expected.

## 2.3. Other hazards

No information.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

For mixtures see 3.2.

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## 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
citric acid, monohydrate	5949-29-1 201-069-1 -	6-7	Eye Irrit. 2; H319		-
alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3 500-234-8 -	5-8	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 5 % ≤ C < 10 %	-
phosphoric acid	7664-38-2 231-633-2 015-011-00-6	4-7	Met. Corr. 1; H290 Skin Corr. 1B; H314		01-2119485924-24
Isotridecanol, ethoxylated	69011-36-5 - -	<0,15	Acute Tox. 4; H302 Eye Dam. 1; H318		-
α-hexylcinnamaldehyde	101-86-0 202-983-3 -	≤0,025	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411		-
(R)-p-mentha-1,8-diene <sup>[C]</sup>	5989-27-5 227-813-5 601-029-00-7	≤0,01	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		01-2119529223-47
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) <sup>[B]</sup>	55965-84-9 - 613-167-00-5	<0,01	Acute Tox. 3; H301 Acute Tox. 2; H310 Skin Corr. 1C; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Acute 1; H400 [M=100] Aquatic Chronic 1; H410 [M=100] EUH071	Skin Corr. 1C; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Skin Sens. 1A; H317: C ≥ 0,0015 % Eye Dam. 1; H318: C ≥ 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %	-

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- B** Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations.
- In Part 3 entries with Note B have a general designation of the following type: "nitric acid ... %".
- In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- C** Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.
- In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

**SECTION 4. FIRST AID MEASURES****4.1. Description of first aid measures**General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. Person giving first aid should properly protect himself.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed immediately with plenty of running water. If symptoms of irritation or an allergic reaction occur, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. After initial flushing, remove any contact lenses and continue flushing. Consult a physician immediately!

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Immediately consult a doctor. Show the physician the safety data sheet or label.

**4.2. Most important symptoms and effects, both acute and delayed**Inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.  
Cough, Sneezing.

Skin contact

Itching, redness, pain.  
May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

Eye contact

Risk of serious permanent damage to eyes.  
Redness, pain, burning sensation, tearing, can cause permanent damage to the eyes.

Ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.  
May cause nausea/vomiting and diarrhea.  
May cause abdominal discomfort.

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

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## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

#### Unsuitable extinguishing media

Full water jet.

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

#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.  
Carbon oxides (CO<sub>x</sub>).  
Sulphuric oxides (SO<sub>x</sub>). Phosphine.  
Phosphorus oxides (PO<sub>x</sub>).

### 5.3. Advice for firefighters

#### Protective actions

In case of fire do not breathe fumes/gases. Cool containers at risk with water spray. If possible remove containers from endangered area. Move undamaged containers from immediate hazard area if it can be done safely.

#### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8).

##### **Emergency procedures**

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! No action shall be taken involving any personal risk or without suitable training. Evacuate the danger zone. Avoid contact with skin and eyes. Do not breathe vapour or mist. Prevent access to unprotected personnel.

#### 6.1.2. For emergency responders

During intervention, use personal protective equipment (Section 8).

### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

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

#### 6.3.1. For containment

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## 6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. In case of bigger spill, dam the spillage, pump the liquid into appropriate labelled containers, absorb a residue with absorbent material and dispose of according to local regulations. Dispose in accordance with applicable regulations (see Section 13). Clean contaminated area with plenty of water.

## 6.3.3. Other information

See Section 12: ECOLOGICAL INFORMATION.

## **6.4. Reference to other sections**

See also Sections 8 and 13.

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## **SECTION 7. HANDLING AND STORAGE**

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### **7.1. Precautions for safe handling**

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

Ensure adequate ventilation.

##### **Measures to prevent aerosol and dust generation**

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##### **Measures to protect the environment**

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#### 7.1.2. Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety procedures. Use good personal hygiene practices – wash hands at breaks and when done working with material. Wear suitable protective equipment; see Section 8. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin and eyes.

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

#### 7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

#### 7.2.2. Packaging materials

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#### 7.2.3. Requirements for storage rooms and vessels

Keep in tightly closed containers. Close opened containers after use. Put the containers upright to prevent from leaking.

#### 7.2.4. Storage class

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#### 7.2.5. Further information on storage conditions

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### **7.3. Specific end use(s)**

#### **Recommendations**

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#### **Industrial sector specific solutions**

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>		
Orthophosphoric acid (7664-38-2)		1		2		

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

#### 8.1.3. DNEL/DMEL values

##### For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	Worker	dermal	long term (systemic effects)	2750 mg/kg bw/day	
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	Worker	inhalation	long term (systemic effects)	175 mg/m <sup>3</sup>	
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	Consumer	dermal	long term (systemic effects)	1650 mg/kg bw/day	
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	Consumer	oral	long term (systemic effects)	15 mg/kg bw/day	
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	Consumer	inhalation	long term (systemic effects)	52 mg/m <sup>3</sup>	
phosphoric acid (7664-38-2)	Worker	inhalation	long term (systemic effects)	10,7 mg/m <sup>3</sup>	
phosphoric acid (7664-38-2)	Worker	inhalation	long term (local effects)	1 mg/m <sup>3</sup>	
phosphoric acid (7664-38-2)	Worker	inhalation	short term (local effects)	2 mg/m <sup>3</sup>	
phosphoric acid (7664-38-2)	Consumer	inhalation	long term (systemic effects)	4,57 mg/m <sup>3</sup>	
phosphoric acid (7664-38-2)	Consumer	inhalation	long term (local effects)	0,36 mg/m <sup>3</sup>	
phosphoric acid (7664-38-2)	Consumer	oral	long term (systemic effects)	0,1 mg/kg bw/day	
Isotridecanol, ethoxylated (69011-36-5)	Worker	inhalation	long term (systemic effects)	294 mg/m <sup>3</sup>	repeated
Isotridecanol, ethoxylated (69011-36-5)	Worker	dermal	long term (systemic effects)	2080 mg/kg	repeated
α-hexylcinnamaldehyde (101-86-0)	Worker	dermal	short term (local effects)	0,525 mg/kg bw	
α-hexylcinnamaldehyde (101-86-0)	Worker	dermal	long term (local effects)	0,525 mg/kg bw/day	
α-hexylcinnamaldehyde (101-86-0)	Worker	dermal	long term (systemic effects)	18,2 mg/kg bw/day	

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α-hexylcinnamaldehyde (101-86-0)	Worker	inhalation	short term (local effects)	6,28 mg/m <sup>3</sup>	
α-hexylcinnamaldehyde (101-86-0)	Worker	inhalation	long term (systemic effects)	0,078 mg/m <sup>3</sup>	
α-hexylcinnamaldehyde (101-86-0)	Consumer	dermal	short term (local effects)	0,0787 mg/kg bw	
α-hexylcinnamaldehyde (101-86-0)	Consumer	dermal	long term (local effects)	0,0787 mg/kg bw/day	
α-hexylcinnamaldehyde (101-86-0)	Consumer	dermal	long term (systemic effects)	9,11 mg/kg bw/day	
α-hexylcinnamaldehyde (101-86-0)	Consumer	inhalation	short term (local effects)	4,71 mg/m <sup>3</sup>	
α-hexylcinnamaldehyde (101-86-0)	Consumer	inhalation	long term (systemic effects)	0,019 mg/m <sup>3</sup>	
α-hexylcinnamaldehyde (101-86-0)	Consumer	oral	long term (systemic effects)	0,056 mg/kg bw/day	
linalyl acetate (115-95-7)	Worker	inhalation	long term (systemic effects)	2,75 mg/m <sup>3</sup>	
linalyl acetate (115-95-7)	Worker	dermal	long term (systemic effects)	2,5 mg/kg bw/day	
linalyl acetate (115-95-7)	Consumer	inhalation	long term (systemic effects)	0,68 mg/m <sup>3</sup>	
linalyl acetate (115-95-7)	Consumer	dermal	long term (systemic effects)	1,25 mg/kg bw/day	
linalyl acetate (115-95-7)	Consumer	dermal	long term (local effects)	8 mg/cm <sup>2</sup>	
linalyl acetate (115-95-7)	Consumer	oral	long term (systemic effects)	0,2 mg/kg bw/day	
linalyl acetate (115-95-7)	Worker	dermal	short term (local effects)	8 mg/cm <sup>2</sup>	
linalyl acetate (115-95-7)	Worker	dermal	long term (local effects)	8 mg/kg bw/day	
linalyl acetate (115-95-7)	Consumer	dermal	short term (systemic effects)	8 mg/kg bw	
(R)-p-mentha-1,8-diene (5989-27-5)	Worker	dermal	short term (local effects)	222 µg/cm <sup>2</sup>	
(R)-p-mentha-1,8-diene (5989-27-5)	Worker	inhalation	long term (systemic effects)	33,3 mg/m <sup>3</sup>	
(R)-p-mentha-1,8-diene (5989-27-5)	Consumer	dermal	short term (local effects)	111 µg/cm <sup>2</sup>	
(R)-p-mentha-1,8-diene (5989-27-5)	Consumer	inhalation	long term (systemic effects)	8,33 mg/m <sup>3</sup>	
(R)-p-mentha-1,8-diene (5989-27-5)	Consumer	oral	long term (systemic effects)	4,76 mg/kg	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	Worker	inhalation	long term (systemic effects)	5,29 mg/m <sup>3</sup>	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	Consumer	inhalation	long term (systemic effects)	1,3 mg/m <sup>3</sup>	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	Worker	dermal	long term (systemic effects)	28,85 mg/kg bw/day	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	Consumer	oral	long term (systemic effects)	0,75 mg/kg bw/day	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	Consumer	dermal	long term (systemic effects)	14,43 mg/kg bw/day	



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geraniol (106-24-1)	Worker	inhalation	long term (systemic effects)	161,6 mg/m <sup>3</sup>
geraniol (106-24-1)	Worker	dermal	long term (systemic effects)	12,5 mg/kg bw/day
geraniol (106-24-1)	Worker	dermal	long term (local effects)	11,8 mg/kg bw/day
geraniol (106-24-1)	Consumer	inhalation	long term (systemic effects)	47,8 mg/m <sup>3</sup>
geraniol (106-24-1)	Consumer	dermal	long term (systemic effects)	7,5 mg/kg bw/day
geraniol (106-24-1)	Consumer	dermal	long term (local effects)	11,8 mg/cm <sup>2</sup>
geraniol (106-24-1)	Consumer	oral	long term (systemic effects)	13,75 mg/kg bw/day
linalool (78-70-6)	Worker	inhalation	long term (systemic effects)	2,8 mg/m <sup>3</sup>
linalool (78-70-6)	Worker	inhalation	short term (systemic effects)	16,5 mg/m <sup>3</sup>
linalool (78-70-6)	Worker	dermal	long term (systemic effects)	2,5 mg/kg bw/day
linalool (78-70-6)	Worker	dermal	short term (systemic effects)	5 mg/kg bw/day
linalool (78-70-6)	Worker	dermal	long term (local effects)	15 mg/kg bw/day
linalool (78-70-6)	Worker	dermal	short term (local effects)	15 mg/cm <sup>2</sup>
linalool (78-70-6)	Consumer	inhalation	long term (systemic effects)	0,7 mg/m <sup>3</sup>
linalool (78-70-6)	Consumer	inhalation	short term (systemic effects)	4,1 mg/m <sup>3</sup>
linalool (78-70-6)	Consumer	dermal	long term (systemic effects)	1,25 mg/kg bw/day
linalool (78-70-6)	Consumer	dermal	short term (systemic effects)	2,5 mg/kg bw
linalool (78-70-6)	Consumer	dermal	long term (local effects)	15 mg/cm <sup>2</sup>
linalool (78-70-6)	Consumer	dermal	short term (local effects)	15 mg/cm <sup>2</sup>
linalool (78-70-6)	Consumer	oral	long term (systemic effects)	0,2 mg/kg bw/day
linalool (78-70-6)	Consumer	oral	short term (systemic effects)	1,2 mg/kg bw
pin-2(3)-ene (80-56-8)	Worker	inhalation	long term (systemic effects)	5,98 mg/m <sup>3</sup>
Pin-2(10)-ene (127-91-3)	Worker	dermal	long term (systemic effects)	0,8 mg/kg bw/day
Pin-2(10)-ene (127-91-3)	Worker	dermal	long term (local effects)	0,054 mg/kg bw/day
Pin-2(10)-ene (127-91-3)	Worker	inhalation	long term (systemic effects)	5,69 mg/m <sup>3</sup>
Pin-2(10)-ene (127-91-3)	Consumer	oral	long term (systemic effects)	0,3 mg/kg bw/day
Pin-2(10)-ene (127-91-3)	Consumer	inhalation	long term (systemic effects)	1 mg/m <sup>3</sup>

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Pin-2(10)-ene (127-91-3)	Consumer	dermal	long term (systemic effects)	0,3 mg/kg bw/day
Pin-2(10)-ene (127-91-3)	Consumer	dermal	long term (local effects)	0,027 mg/cm <sup>2</sup>
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	Worker	inhalation	long term (systemic effects)	1,76 mg/m <sup>3</sup>
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	Worker	dermal	short term (local effects)	0,1011 mg/cm <sup>2</sup>
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	Consumer	inhalation	long term (systemic effects)	0,43 mg/m <sup>3</sup>
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	Consumer	dermal	short term (local effects)	0,0506 mg/cm <sup>2</sup>
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	Consumer	dermal	long term (local effects)	0,1011 mg/cm <sup>2</sup>
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	Consumer	dermal	long term (local effects)	0,0506 mg/cm <sup>2</sup>
citral (5392-40-5)	Worker	inhalation	long term (systemic effects)	9 mg/m <sup>3</sup>
citral (5392-40-5)	Consumer	inhalation	long term (systemic effects)	2,7 mg/m <sup>3</sup>
citral (5392-40-5)	Worker	dermal	long term (local effects)	0,14 mg/cm <sup>2</sup>
citral (5392-40-5)	Worker	dermal	short term (local effects)	0,14 mg/cm <sup>2</sup>
citral (5392-40-5)	Consumer	dermal	long term (local effects)	0,14 mg/cm <sup>2</sup>
citral (5392-40-5)	Consumer	dermal	short term (local effects)	0,14 mg/cm <sup>2</sup>

## 8.1.4. PNEC values

### For components

Name	Exposure route	Value	Remark
citric acid, monohydrate (5949-29-1)	fresh water	0,44 mg/L	
citric acid, monohydrate (5949-29-1)	marine water	0,044 mg/L	
citric acid, monohydrate (5949-29-1)	fresh water sediment	3,46 mg/kg	
citric acid, monohydrate (5949-29-1)	marine water sediment	34,6 mg/kg	
citric acid, monohydrate (5949-29-1)	soil	33,1 mg/kg	
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	fresh water	0,24 mg/L	
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	soil	7,5 mg/kg	dry weight
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	water treatment plant	10 g/L	
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	marine water	0,024 mg/L	
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	marine water sediment	0,092 mg/kg	
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	water, intermittent release	0,071 mg/L	
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	fresh water sediment	0,917 mg/L	
Isotridecanol, ethoxylated (69011-36-5)	fresh water	0,074 mg/L	
Isotridecanol, ethoxylated (69011-36-5)	marine water	0,0074 mg/L	
Isotridecanol, ethoxylated (69011-36-5)	water, intermittent release	0,015 mg/L	
Isotridecanol, ethoxylated (69011-36-5)	water treatment plant	1,4 mg/L	

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Isotridecanol, ethoxylated (69011-36-5)	fresh water sediment	0,604 mg/kg	
Isotridecanol, ethoxylated (69011-36-5)	marine water sediment	0,0604 mg/kg	
Isotridecanol, ethoxylated (69011-36-5)	soil	0,1 mg/kg	
α-hexylcinnamaldehyde (101-86-0)	fresh water	0,03 mg/L	
α-hexylcinnamaldehyde (101-86-0)	marine water	0,003 mg/L	
α-hexylcinnamaldehyde (101-86-0)	fresh water sediment	47,7 mg/kg	
α-hexylcinnamaldehyde (101-86-0)	marine water sediment	4,77 mg/kg	
α-hexylcinnamaldehyde (101-86-0)	water, intermittent release	0,03 mg/L	
α-hexylcinnamaldehyde (101-86-0)	water treatment plant	10 mg/L	
α-hexylcinnamaldehyde (101-86-0)	soil	9,51 mg/kg	
α-hexylcinnamaldehyde (101-86-0)	food chain	6,6 mg/kg	oral
linalyl acetate (115-95-7)	fresh water	0,011 mg/L	
linalyl acetate (115-95-7)	marine water	0,001 mg/L	
linalyl acetate (115-95-7)	water treatment plant	10 mg/L	
linalyl acetate (115-95-7)	water, intermittent release	0,11 mg/L	fresh water
linalyl acetate (115-95-7)	fresh water sediment	0,609 mg/kg dwt	
linalyl acetate (115-95-7)	marine water sediment	0,061 mg/kg dwt	
linalyl acetate (115-95-7)	soil	0,115 mg/kg dwt	
(R)-p-mentha-1,8-diene (5989-27-5)	fresh water	5,4 µg/l	
(R)-p-mentha-1,8-diene (5989-27-5)	marine water	0,54 µg/l	
(R)-p-mentha-1,8-diene (5989-27-5)	water treatment plant	1,8 mg/L	
(R)-p-mentha-1,8-diene (5989-27-5)	marine water sediment	0,13 mg/kg	dry weight
(R)-p-mentha-1,8-diene (5989-27-5)	fresh water sediment	1,32 mg/kg	dry weight
(R)-p-mentha-1,8-diene (5989-27-5)	soil	0,262 mg/kg	dry weight
(R)-p-mentha-1,8-diene (5989-27-5)	food chain	3,33 mg/kg	oral
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	fresh water	4,4 µg/l	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	marine water	0,44 µg/l	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	fresh water sediment	2 mg/kg	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	marine water sediment	0,394 mg/kg	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	soil	0,31 mg/kg	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	water, intermittent release	47 µg/l	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	water treatment plant	1 mg/L	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	food chain	3,3 mg/kg	oral
geraniol (106-24-1)	fresh water	0,0108 mg/L	
geraniol (106-24-1)	marine water	0,00108 mg/L	

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geraniol (106-24-1)	water, intermittent release	0,108 mg/L	
geraniol (106-24-1)	water treatment plant	0,7 mg/L	
geraniol (106-24-1)	fresh water sediment	0,115 mg/kg dwt	
geraniol (106-24-1)	marine water sediment	0,0115 mg/kg dwt	
geraniol (106-24-1)	soil	0,0167 mg/kg dwt	
linalool (78-70-6)	fresh water	0,2 mg/L	
linalool (78-70-6)	water, intermittent release	2 mg/L	fresh water
linalool (78-70-6)	marine water	0,02 mg/L	
linalool (78-70-6)	water treatment plant	10 mg/L	
linalool (78-70-6)	marine water sediment	0,222 mg/kg dwt	
linalool (78-70-6)	fresh water sediment	2,22 mg/kg dwt	
linalool (78-70-6)	soil	0,327 mg/kg dwt	
pin-2(3)-ene (80-56-8)	fresh water	0,004 mg/L	
pin-2(3)-ene (80-56-8)	marine water	0,0004 mg/L	
pin-2(3)-ene (80-56-8)	fresh water sediment	1,033 mg/kg dwt	
pin-2(3)-ene (80-56-8)	marine water sediment	0,103 mg/kg dwt	
pin-2(3)-ene (80-56-8)	soil	0,539 mg/kg dwt	
pin-2(3)-ene (80-56-8)	water treatment plant	3,26 mg/L	
Pin-2(10)-ene (127-91-3)	fresh water	0,001004 mg/L	
Pin-2(10)-ene (127-91-3)	marine water	0,0001004 mg/L	
Pin-2(10)-ene (127-91-3)	water, intermittent release	5,02 mg/L	
Pin-2(10)-ene (127-91-3)	fresh water sediment	0,337 mg/kg dwt	
Pin-2(10)-ene (127-91-3)	marine water sediment	0,0337 mg/kg dwt	
Pin-2(10)-ene (127-91-3)	soil	0,0671 mg/kg dwt	
Pin-2(10)-ene (127-91-3)	water treatment plant	3,26 mg/L	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	fresh water	0,0028 mg/L	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	marine water	0,00028 mg/L	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	water, intermittent release	0,013 mg/L	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	water treatment plant	10 mg/L	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	fresh water sediment	3,73 mg/kg	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	marine water sediment	0,75 mg/kg	

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1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	soil	0,705 mg/kg	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	food chain	10 mg/kg	oral
citral (5392-40-5)	fresh water	0,00678 mg/L	
citral (5392-40-5)	marine water	0,000678 mg/L	
citral (5392-40-5)	water, intermittent release	0,0678 mg/L	
citral (5392-40-5)	water treatment plant	1,6 mg/L	
citral (5392-40-5)	fresh water sediment	0,125 mg/kg	
citral (5392-40-5)	marine water sediment	0,0125 mg/kg	
citral (5392-40-5)	soil	0,0209 mg/kg	

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Appropriate technical measures to reduce exposure of workers must be chosen depending on the specific use of the product and the resulting risk of exposure at the workplace. If technical measures to reduce workers' exposure are not sufficient, and the limit values of hazardous substances in the air are exceeded, it is necessary to use personal protective equipment. Personal protective equipment must be CE marked, showing that it complies with applicable standards. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. The personal protective equipment is required only for professional use or for large packs (not for domestic packages). For consumer use, please follow the recommendations appearing on the product label.

#### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

#### Technical measures to prevent exposure

Good ventilation.

### 8.2.2. Personal protective equipment

#### Eye and face protection

Tight fitting protective goggles (EN 166). If there is danger of splash or spray use the face shield.

#### Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. The product is a preparation of several substances, the resistance of glove materials cannot be predicted and must therefore be checked before use.

#### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

#### Respiratory protection

In case of insufficient ventilation wear mask with filter A2-P2. 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded.

#### Thermal hazards

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### 8.2.3. Environmental exposure controls

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

- <b>Physical state:</b>	liquid
- <b>Colour:</b>	Clear and colourless
- <b>Odour:</b>	the scent of green tea

### Important health, safety and environmental information

- <b>pH</b>	1,85 at 25 °C, conc. 50 g/l (Citric acid, monohydrate) 6,5 – 8,5, conc. 1 % (alcohols, C12-14, ethoxylated, sulfates, sodium salts) 1,5 – 2,5, conc. 1 % (phosphoric acid)
- <b>Melting point/freezing point</b>	135 – 152 °C (Citric acid, monohydrate) 7 °C (alcohols, C12-14, ethoxylated, sulfates, sodium salts)
- <b>Initial boiling point/boiling range</b>	No information.
- <b>Flash point</b>	No information.
- <b>Evaporation rate</b>	No information.
- <b>Flammability (solid, gas)</b>	345 °C (Citric acid, monohydrate)
- <b>Explosion limits (vol%)</b>	No information.
- <b>Vapour pressure</b>	< 0,1 hPa at 20 °C (Citric acid, monohydrate) 0,04 hPa at 20 °C (phosphoric acid)
- <b>Vapour density</b>	No information.
- <b>Density</b>	<b>Density:</b> ca. 1 g/cm <sup>3</sup>
- <b>Solubility</b>	<b>Water:</b> 1630 g/l at 20 °C (Citric acid, monohydrate) 1000 g/l at 20 °C (phosphoric acid)
- <b>Partition coefficient</b>	No information.
- <b>Auto-ignition temperature</b>	No information.
- <b>Decomposition temperature</b>	> 170 °C (Citric acid, monohydrate)
- <b>Viscosity</b>	<b>Dynamic:</b> 10000 – 20000 cP (alcohols, C12-14, ethoxylated, sulfates, sodium salts)
- <b>Explosive properties</b>	Product is not explosive.
- <b>Oxidising properties</b>	No information.

### 9.2. Other information

- <b>Remarks:</b>	
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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

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## 10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

## 10.5. Incompatible materials

Do not mix with other chemicals. Do not mix with other cleansing agents.

## 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide. Carbon oxides. Sulphuric oxides. Phosphine.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
citric acid, monohydrate (5949-29-1)	oral	LD <sub>50</sub>	rat		3000 mg/kg		
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	oral	LD <sub>50</sub>	rat		> 2000 mg/kg		
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	dermal	LD <sub>50</sub>	rat		> 2000 mg/kg		
phosphoric acid (7664-38-2)	inhalation	TCL0	human		100 mg/m <sup>3</sup>		
phosphoric acid (7664-38-2)	dermal	LD <sub>50</sub>	rabbit		2740 mg/kg		
phosphoric acid (7664-38-2)	oral	LD <sub>50</sub>	rat		1,7 mg/kg	OECD 423	
phosphoric acid (7664-38-2)	oral	LD <sub>50</sub>			2600 mg/kg bw		
Isotridecanol, ethoxylated (69011-36-5)	oral	LD <sub>50</sub>	rat		> 2000 mg/kg		
α-hexylcinnamaldehyde (101-86-0)	oral	LD <sub>50</sub>	rat		3100 mg/kg		
(R)-p-mentha-1,8-diene (5989-27-5)	oral	LD <sub>50</sub>	rat		4400 mg/kg		
(R)-p-mentha-1,8-diene (5989-27-5)	oral	LD <sub>50</sub>	mouse		5600 mg/kg		
(R)-p-mentha-1,8-diene (5989-27-5)	dermal	LD <sub>50</sub>	rabbit		> 5000 mg/kg		

**Additional information:** As no toxicological data available on the mixture, the following assessment on toxicological effects has been made based on the data toxicology of the ingredients and according to their amount using the calculation methods.

#### (b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
citric acid, monohydrate (5949-29-1)	rabbit		Mild irritating.		
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	rabbit		Irritating to skin.		
phosphoric acid (7664-38-2)			causes burns; possible tissue necrosis		
Isotridecanol, ethoxylated (69011-36-5)	rabbit	4 h	No irritant effect.		

**Additional information:** Causes skin irritation.

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## (c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
citric acid, monohydrate (5949-29-1)	rabbit		Severe irritation.		
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	rabbit		Danger of serious eye injury.		
phosphoric acid (7664-38-2)			causes burns; corneal perforation is possible; there is no permanent damage in immediate supply		
Isotridecanol, ethoxylated (69011-36-5)	rabbit		Irritating.		

**Additional information:** Causes serious eye damage.

## (d) Respiratory or skin sensitisation

**Additional information:** May cause an allergic skin reaction.

## (e) (Germ cell) mutagenicity

No information.

## (f) Carcinogenicity

No information.

## (g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
phosphoric acid (7664-38-2)		NOAEL (F1)			≥ 500 mg/kg bw/day			

## Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

## (h) STOT-single exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	inhalation	-					Excessive exposure may cause irritation of the upper respiratory tract (nose and throat).		

**Additional information:** STOT SE (single exposure): Not classified.

## (i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
phosphoric acid (7664-38-2)	oral	NOAEL				250 mg/kg		OECD 422	

**Additional information:** STOT RE (repeated exposure): Not classified.

## (j) Aspiration hazard

Name	Result	Method	Remark
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	During ingestion or vomiting, inhalation into the lungs may occur, which can cause tissue damage or lung injury.		

**Additional information:** Aspiration hazard: Not classified.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity



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## 12.1.1. Acute (short-term) toxicity

### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
citric acid, monohydrate (5949-29-1)	LC <sub>50</sub>	440 – 760 mg/L	96 h	fish	<i>Leuciscus idus</i>		
	EC <sub>50</sub>	ca. 120 mg/L	72 h	daphnia	<i>Daphnia magna</i>		
	EC <sub>5</sub>	> 10000 mg/L	16 h	bacteria	<i>Pseudomonas putida</i>		
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	LC <sub>50</sub>	7,1 mg/L	96 h	fish	<i>Brachydanio rerio</i>		
	EC <sub>50</sub>	7,4 mg/L	48 h	daphnia	<i>Daphnia magna</i>		
	EC <sub>50</sub>	27,7 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>		
	LC <sub>50</sub> /EC <sub>50</sub> /IC <sub>50</sub>	1 – 10 mg/L					the most sensitive species
phosphoric acid (7664-38-2)	LC <sub>50</sub>	100 – 1000 mg/L		fish			
	LC <sub>50</sub>	> 100 mg/L		daphnia	<i>Daphnia magna</i>	OECD TG 202	
	EC50/LC50	100 mg/L		invertebrates			fresh water
	EC50/LC50	100 mg/L		algae			fresh water
	EC10/LC50/NOEC	100 mg/L		algae			fresh water
Isotridecanol, ethoxylated (69011-36-5)	LC <sub>50</sub>	1 – 10 mg/L	96				
	EC <sub>50</sub>	1 – 10 mg/L	48 h				
α-hexylcinnamaldehyde (101-86-0)	LC <sub>50</sub>	1,7 mg/L	96 h	fish			
(R)-p-mentha-1,8-diene (5989-27-5)	LC <sub>50</sub>	0,72 mg/L	96 h	fish			
	EC <sub>50</sub>	0,688 mg/L	96 h	fish			
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	LC <sub>50</sub> /EC <sub>50</sub> /IC <sub>50</sub>	< 1 mg/L					the most sensitive species
	LC <sub>50</sub>	0,19 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	
	EC <sub>50</sub>	0,16 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
	EC <sub>50</sub>	0,027 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	NOEC	0,0014 mg/L	72 h	algae	<i>Skeletonema costatum</i>	OECD 201	

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## 12.1.2. Chronic (long-term) toxicity

### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
citric acid, monohydrate (5949-29-1)	IC <sub>5</sub>	640 mg/l	7 days	algae	<i>Scenedesmus quadricauda</i>		
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	NOEC	1,2 mg/l		fish			QSAR
	NOEC	1,2 mg/l		invertebrates			QSAR
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	NOEC	0,05 mg/l	14 days	fish	<i>Oncorhynchus mykiss</i>		
	NOEC	0,1 mg/l	21 days	crustacea	<i>Daphnia magna</i>		

## 12.2. Persistence and degradability

### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

#### For components

Substance (CAS Nr.)	Environment	Type / Method	Half Time	Evaluation	Method	Remark
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	Air	photodegradation	0,38 – 1,3 days		half-life	

### 12.2.2. Biodegradation

#### For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
citric acid, monohydrate (5949-29-1)	biodegradability	98 %	2 days	biodegradable	Modified Zahn-Wellens-Test	
citric acid, monohydrate (5949-29-1)	BOD	0,526 g/g				
citric acid, monohydrate (5949-29-1)	COD	0,728 g/g				
citric acid, monohydrate (5949-29-1)	ThOD	0,75 g/g				
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	biodegradability	100 %	28 days	readily biodegradable		
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	biodegradability	< 50 %	10 days	not readily biodegradable		

## 12.3. Bioaccumulative potential

### 12.3.1. Partition coefficient

#### For components

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
citric acid, monohydrate (5949-29-1)	Log Pow	-1,72				
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	Log Pow	≤ 3				

### 12.3.2. Bioconcentration factor (BCF)

No information.

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## 12.4. Mobility in soil

### 12.4.1. Known or predicted distribution to environmental compartments

#### For components

Substance (CAS Nr.)	Air	Water	Soil	Sediment	(Aquatic) Biota	Method	Remark
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)							

### 12.4.2. Surface tension

No information.

### 12.4.3. Adsorption/Desorption

#### For components

Substance (CAS Nr.)	Type	Criterion	Value	Evaluation	Method	Remark
alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	Water			Soluble.		
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	Soil	log KOC	28			Estimated value

## 12.5. Results of PBT and vPvB assessment

No evaluation.

## 12.6. Other adverse effects

No information.

## 12.7. Additional information

### For product

Product contains components harmful for aquatic organisms, in concentrations below the limit concentration for classifying the product harmful for environment.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### For components

#### Substance: citric acid, monohydrate

Bioaccumulation is not expected.

Adverse effects on aquatic organisms due to changes in pH.

#### Substance: alcohols, C12-14, ethoxylated, sulfates, sodium salts

Bioaccumulation is not expected.

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

#### Substance: phosphoric acid

Phosphorus is essential for the growth of algae in surface waters and in sea water. The more phosphates are in the waters, the greater is the water pollution. The increased concentration of phosphorous compounds causes algae growth and the proliferation of bacteria.

The substance is not readily biodegradable.

Completely soluble in water.

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

No effect on global warming and depletion of the ozone layer.

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

This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. Product / Packaging disposal

##### Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Prevent the release of undiluted product into the sewage system.

##### Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

#### 13.1.2. Waste treatment-relevant information

-

#### 13.1.3. Sewage disposal-relevant information

-

#### 13.1.4. Other disposal recommendations

-

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

NO.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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

Not applicable.

## 15.1.2. Ingredients according to Regulation EC 648/2004 on detergents

5% - < 15%: anionic surfactants; preservation agents (Methylchloroisothiazolinone, Methylisothiazolinone), perfumes (Hexyl cinnamal, Limonene)

## **15.2. Chemical Safety Assessment**

A Chemical Safety Assessment has been carried out for one or more substances present in the material.

## **SECTION 16. OTHER INFORMATION**

### Indication of changes

-

### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer

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MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

## Key literature references and sources for data

-

## List of relevant H phrases

H226 Flammable liquid and vapour.  
H290 May be corrosive to metals.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H310 Fatal 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.  
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.  
EUH071 Corrosive to the respiratory tract.



- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.