



# HG laminate cleaner | HG laminate, vinyl and PVC cleaner (product 72)

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2020/878.  
Issue date: 16/05/2024 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : HG laminate cleaner | HG laminate, vinyl and PVC cleaner (product 72)  
Product code : 349 ART  
Type of product : Detergent  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Consumer use  
Use of the substance/mixture : Floor cleaning products

##### 1.2.2. Uses advised against

Restrictions on use : All other uses not recommended above

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

##### Manufacturer

HG International B.V.  
Damsluisweg 70  
NL- 1332EJ Almere  
Netherlands  
T +31 (0)36 54 94 700  
[safety@hg.eu](mailto:safety@hg.eu) - [www.hg.eu](http://www.hg.eu)

#### 1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to GB CLP (SI 2019:720 as amended)

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Labelling according to GB CLP (SI 2019:720 as amended)

Hazard statements (GB CLP) : H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (GB CLP) : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.

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	P273 - Avoid release to the environment.
	P501 - Dispose of contents and container to an approved waste disposal plant.
EUH-statements (GB CLP)	: EUH208 - Contains METHYLISOTHIAZOLINONE. May produce an allergic reaction.
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with UK REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	$\geq 90$	Not classified
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS-No.: 68891-38-3 EC-No.: 500-234-8 REACH-no: 01-2119488639-16	$\geq 2 - < 5$	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate	CAS-No.: 51981-21-6 EC-No.: 257-573-7 REACH-no: 01-2119493601-38	$\geq 2 - < 5$	Met. Corr. 1, H290
citric acid	CAS-No.: 77-92-9 EC-No.: 201-069-1 UK Index-No.: 607-750-00-3 REACH-no: 01-2119457026-42	$\geq 0.1 - < 1$	STOT SE 3, H335 Eye Irrit. 2, H319
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	CAS-No.: 68155-07-7 EC-No.: 931-329-6 REACH-no: 01-2119490100-53	$\geq 0.1 - < 1$	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Oils, cedarwood	CAS-No.: 8000-27-9	$\geq 0.1 - < 1$	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
[3R-(3 $\alpha$ ,3 $\beta$ ,6 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	CAS-No.: 19870-74-7 EC-No.: 243-384-7 REACH-no: 01-2120228335-61	$\geq 0.01 - < 0.1$	Flam. Liq. 1, H224 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	CAS-No.: 469-61-4 EC-No.: 207-418-4	$\geq 0.01 - < 0.1$	Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol	CAS-No.: 68877-29-2 EC-No.: 272-556-4 REACH-no: 01-2119979583-21	≥ 0.01 – < 0.1	Skin Irrit. 2, H315 Aquatic Chronic 2, H411
Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	CAS-No.: 52-51-7 EC-No.: 200-143-0	< 0.1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1600 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400
2-methylundecanal	CAS-No.: 110-41-8 EC-No.: 203-765-0 REACH-no: 01-2119969443-29	≥ 0.001 – < 0.1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
cedrol	CAS-No.: 77-53-2 EC-No.: 201-035-6 REACH-no: 01-2120790208-49	≥ 0.001 – < 0.1	Aquatic Chronic 2, H411
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	CAS-No.: 79-77-6 EC-No.: 201-224-3 REACH-no: 01-2119449921-34	≥ 0.001 – < 0.1	Aquatic Chronic 2, H411
(Z)-3,4,5,6,6-pentamethylhept-3-en-2-one	CAS-No.: 81786-73-4 EC-No.: 279-822-9 REACH-no: 01-2119980043-42	≥ 0.001 – < 0.1	Skin Sens. 1, H317 Aquatic Chronic 2, H411
4-tert-butylcyclohexyl acetate	CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286-24	≥ 0.001 – < 0.1	Skin Sens. 1B, H317
Aqueous styrene copolymer dispersion	-	≥ 0.01 – < 0.1	Not classified
Reaction products of acetic anhydride and 1,5,10-trimethyl-1,5,9-cyclodecatriene	CAS-No.: 144020-22-4 EC-No.: 482-330-9 REACH-no: 01-2119430466-41	< 0.01	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	CAS-No.: 32388-55-9 EC-No.: 251-020-3 REACH-no: 01-2119969651-28	≥ 0.001 – < 0.01	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Caryophyllene	CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237-53	≥ 0.001 – < 0.01	Skin Sens. 1, H317 Asp. Tox. 1, H304
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	CAS-No.: 127-51-5 EC-No.: 204-846-3 REACH-no: 01-2120138569-45	≥ 0.001 – < 0.01	Skin Sens. 1B, H317 Aquatic Chronic 2, H411

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Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Pin-2(3)-ene	CAS-No.: 80-56-8 EC-No.: 201-291-9 REACH-no: 01-2119519223-49	≥ 0.001 – < 0.01	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 UK Index-No.: 613-326-00-9 REACH-no: 01-2120764690-50	≥ 0.001 – < 0.01	Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 REACH-no: 01-2120761540-60	≥ 0.001 – < 0.01	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

### Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS-No.: 68891-38-3 EC-No.: 500-234-8 REACH-no: 01-2119488639-16	(5 ≤ C < 10) Eye Irrit. 2, H319 (10 ≤ C < 100) Eye Dam. 1, H318
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 UK Index-No.: 613-326-00-9 REACH-no: 01-2120764690-50	(0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Do not handle until all safety precautions have been read and understood. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses. Notify authorities if product enters sewers or public waters.

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

For containment : Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13 : "Disposal considerations". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

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

Storage conditions : Store in dry, cool, well-ventilated area.

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Storage temperature : > 0 – < 30 °C  
Heat and ignition sources : Keep away from heat and direct sunlight.  
Packaging materials : Store always product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment - Report preview:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

##### Eye protection - Report preview:

Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses with side shields	Normal use conditions		EN 166

##### 8.2.2.2. Skin protection

Skin and body protection	
Type	Standard
Long sleeved protective clothing	

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Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35		EN ISO 374
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0.5		EN ISO 374

### 8.2.2.3. Respiratory protection

No additional information available

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: white to slightly yellow.
Appearance	: Clear to cloudy.
Odour	: perfumed.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 100 °C
Flammability	: Non flammable.
Explosive limits	: Not available
Flash point	: > 100 °C (closed cup)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 9.58 (9 – 10)
pH solution concentration	: 100 %
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1.011 – 1.021 g/cm <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

Water (7732-18-5)	
Boiling point	100 °C
Vapour pressure	2300 Pa 25°C

citric acid (77-92-9)	
Boiling point	decomposes
Flash point	100 °C Source: Akron Univ
Auto-ignition temperature	1010 °C Source: ICSC
Vapour pressure	0.0000221 Pa Temp.: 25 °C Remarks on result: 'other:'

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### Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)

Boiling point	> 250 °C
Vapour pressure	0.019 Pa 25°C

### Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)

Boiling point	> 400 °C Atm. press.: 101 kPa Decomposition: 'no'
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### Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

Boiling point	> 250 °C
Flash point	170 °C Source: NCIS
Vapour pressure	168 Pa 25°C

### tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (51981-21-6)

Boiling point	125 °C
Vapour pressure	0.8 mbar Temp.: 20 K Remarks on result: 'other:'

### 2-methylisothiazol-3(2H)-one (2682-20-4)

Boiling point	> 130 °C Atm. press.: 16 hPa Decomposition: 'yes' Decomp. temp.: 130 °C
Flash point	64.3 °C

### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

Boiling point	328.7 °C Atm. press.: 101,325 kPa Decomposition: 'no'
Vapour pressure	0.0004 Pa 25°C

### 2-methylundecanal (110-41-8)

Boiling point	230.85 °C Atm. press.: 101,325 kPa Decomposition: 'no' Remarks on result: 'other:'
Flash point	68.5 °C Atm. press.: 101325 Pa Remarks on result: 'other:'

### Caryophyllene (87-44-5)

Boiling point	253 – 262 °C Atm. press.: 1013 hPa
Flash point	105.5 °C Atm. press.: 1010,4 hPa Remarks on result: 'other:'

### [3R-(3 $\alpha$ ,3 $\beta$ ,6 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (19870-74-7)

Boiling point	< 268.305 °C
Flash point	< 110.341 °C
Vapour pressure	0.5 Pa Temp.: 24 °C

### cedrol (77-53-2)

Boiling point	285 °C Atm. press.: 101,3 kPa Decomposition: 'no'
Flash point	93.3 °C Source: ChemIDPlus



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### cedrol (77-53-2)

Vapour pressure	0.28 kPa Temp.: 20 °C
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### (E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one (79-77-6)

Boiling point	267.1 °C Atm. press.: 1013 hPa
Flash point	126 °C Atm. press.: 1013,25 hPa
Vapour pressure	≈ 0.072 hPa Temp.: 25 °C

### (Z)-3,4,5,6,6-pentamethylhept-3-en-2-one (81786-73-4)

Boiling point	246.2 °C at 760 mmHg Source: Guidechem
Flash point	99.9 °C Source: Guidechem

### 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)

Boiling point	266.4 °C Atm. press.: 967,1 hPa Decomposition: 'no' Remarks on result: 'other:'
Flash point	110.3 °C Atm. press.: 968,5 hPa Remarks on result: 'other:'
Vapour pressure	0.22 Pa Temp.: 20 °C Remarks on result: 'other:'

### 4-tert-butylcyclohexyl acetate (32210-23-4)

Boiling point	243 °C Atm. press.: 101,9 kPa
Flash point	104 °C Atm. press.: 101325 Pa
Vapour pressure	7.9 Pa Temp.: 25 °C

### Pin-2(3)-ene (80-56-8)

Boiling point	155 °C
Flash point	31 °C Atm. press.: 1 atm
Auto-ignition temperature	255 °C
Vapour pressure	690 Pa 25°C

### [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (32388-55-9)

Boiling point	320.9 °C Atm. press.: 101,8 kPa
Flash point	> 100 °C Atm. press.: 101,3 kPa
Vapour pressure	0.25 kPa Temp.: 25 °C

### Oils, cedarwood (8000-27-9)

Flash point	111 °C Source: Seton compliance resource center
Vapour pressure	1.5 Pa

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 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 toxicological effects

Acute toxicity (oral) : Not classified (Conclusive but not sufficient for classification)  
Acute toxicity (dermal) : Not classified (Conclusive but not sufficient for classification)  
Acute toxicity (inhalation) : Not classified (Conclusive but not sufficient for classification)

#### Water (7732-18-5)

LD50 oral rat	90000 mg/kg
LD50 oral	> 90000 mg/kg bodyweight
LD50 dermal	> 90000 mg/kg bodyweight
ATE GB CLP (oral)	90000 mg/kg bodyweight

#### citric acid (77-92-9)

LD50 oral	5400 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other., 95% CL: 4500 - 6400
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE GB CLP (oral)	5400 mg/kg bodyweight

#### Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral))
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit

#### Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	≥ 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:

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<b>Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LD50 dermal	1600 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 5000 mg/l
ATE GB CLP (oral)	500 mg/kg bodyweight
ATE GB CLP (dermal)	1600 mg/kg bodyweight
<b>tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (51981-21-6)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:
LC50 Inhalation - Rat	> 4.2 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
LD50 oral rat	66 – 105 mg/kg
LD50 dermal rabbit	242 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	0.33 mg/l
ATE GB CLP (oral)	100 mg/kg bodyweight
ATE GB CLP (dermal)	300 mg/kg bodyweight
ATE GB CLP (gases)	100 ppmv/4h
ATE GB CLP (vapours)	0.5 mg/l/4h
ATE GB CLP (dust, mist)	0.05 mg/l/4h
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal	4115 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	100 mg/l
ATE GB CLP (oral)	500 mg/kg bodyweight
ATE GB CLP (dermal)	4115 mg/kg bodyweight
ATE GB CLP (dust, mist)	100 mg/l/4h
<b>2-methylundecanal (110-41-8)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	> 10000 mg/kg Source: ChemIDPlus
<b>Caryophyllene (87-44-5)</b>	
LD50 oral	> 5000 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: not determinable due to absence of adverse toxic effects
<b>[3R-(3<math>\alpha</math>,3<math>\beta</math>,6<math>\beta</math>,7<math>\beta</math>,8<math>\alpha</math>)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (19870-74-7)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

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<b>[3R-(3<math>\alpha</math>,3<math>\beta</math>,6<math>\beta</math>,7<math>\beta</math>,8<math>\alpha</math>)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (19870-74-7)</b>	
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>cedrol (77-53-2)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rabbit	5000 mg/kg Source: ChemIDPlus
ATE GB CLP (dermal)	5000 mg/kg bodyweight
<b>(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one (79-77-6)</b>	
LD50 oral rat	4590 mg/kg Source: SIDS
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
ATE GB CLP (oral)	4590 mg/kg bodyweight
<b>3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Remarks on results: other:
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
<b>Pin-2(3)-ene (80-56-8)</b>	
LD50 oral rat	2100 mg/kg Source: International Uniform Chemical Information Database
LD50 oral	3700 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal	> 5000 mg/kg bodyweight
ATE GB CLP (oral)	500 mg/kg bodyweight
<b>[3R-(3<math>\alpha</math>,3<math>\beta</math>,7<math>\beta</math>,8<math>\alpha</math>)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (32388-55-9)</b>	
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
<b>Oils, cedarwood (8000-27-9)</b>	
LD50 oral rat	> 5000 mg/kg Source: National Library of Medicine
LD50 dermal rabbit	> 5000 mg/kg Source: National Library of Medicine
Skin corrosion/irritation	: Not classified (Conclusive but not sufficient for classification) pH: 9.58 (9 – 10)
<b>Water (7732-18-5)</b>	
pH	7
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L
<b>3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)</b>	
pH	5.44 Temp.: 30 °C Concentration: 1 other: Remarks on result: 'other:'
Serious eye damage/irritation	: Not classified (Conclusive but not sufficient for classification) pH: 9.58 (9 – 10)

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<b>Water (7732-18-5)</b>	
pH	7
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L
<b>3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)</b>	
pH	5.44 Temp.: 30 °C Concentration: 1 other: Remarks on result: 'other:'
Respiratory or skin sensitisation	: Not classified (Conclusive but not sufficient for classification)
Germ cell mutagenicity	: Not classified (Conclusive but not sufficient for classification)
Carcinogenicity	: Not classified (Conclusive but not sufficient for classification)
Reproductive toxicity	: Not classified (Conclusive but not sufficient for classification)
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
NOAEL (animal/female, F1)	56.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
STOT-single exposure	: Not classified (Conclusive but not sufficient for classification)
<b>citric acid (77-92-9)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified (Conclusive but not sufficient for classification)
<b>citric acid (77-92-9)</b>	
LOAEL (oral, rat, 90 days)	8000 mg/kg bodyweight Animal: rat
NOAEL (oral, rat, 90 days)	4000 mg/kg bodyweight Animal: rat
<b>Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)</b>	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)</b>	
LOAEL (oral, rat, 90 days)	25 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
NOAEL (oral, rat, 90 days)	> 225 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
<b>tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (51981-21-6)</b>	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents), Guideline: other:
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
LOAEL (oral, rat, 90 days)	71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other:
<b>3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)</b>	
NOAEL (oral, rat, 90 days)	30 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

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<b>3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)</b>	
NOAEL (dermal, rat/rabbit, 90 days)	50 mg/kg bodyweight Animal: rat, Guideline: other:, Remarks on results: other:
<b>[3R-(3α,3aβ,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (32388-55-9)</b>	
NOAEL (oral, rat, 90 days)	80 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Aspiration hazard	: Not classified (Conclusive but not sufficient for classification)
<b>[3R-(3α,3aβ,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (32388-55-9)</b>	
Viscosity, kinematic	38.25 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified (Conclusive but not sufficient for classification)  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

<b>citric acid (77-92-9)</b>	
LC50 - Fish [1]	440 mg/l
EC50 - Crustacea [1]	1535 mg/l
EC50 - Other aquatic organisms [1]	85 mg/l waterflea
EC50 96h - Algae [1]	1690000 mg/l Source: Ecological Structure Activity Relationships

### **Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)**

LC50 - Fish [1]	≈ 2.4 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	≈ 3.2 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	≈ 7.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	≈ 2.2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	≈ 0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≈ 0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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<b>Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)</b>	
NOEC chronic fish	≈ 0.32 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
NOEC chronic algae	2 mg/l
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)</b>	
LC50 - Fish [1]	7.1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	7.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	27.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.14 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
NOEC chronic algae	0.95 mg/l Scenedesmus subspicatus
<b>Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
EC50 - Crustacea [1]	1.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.25 mg/l Test organisms (species): Skeletonema costatum
EC50 72h - Algae [2]	0.37 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.88 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	21.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '49 d'
<b>tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (51981-21-6)</b>	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	> 95.26 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	> 95.26 mg/l Test organisms (species): Daphnia magna
LOEC (chronic)	> 265.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	224 mg/l Test organisms (species): other aquatic crustacea: Duration: '21 d'
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
LC50 - Fish [1]	4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1.6 mg/l Test organisms (species): Daphnia magna
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
LC50 - Fish [1]	16.7 mg/l Test organisms (species): Cyprinodon variegatus
LC50 - Fish [2]	2.15 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	2.94 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	2.9 mg/l Test organisms (species): Daphnia magna

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<b>2-methylundecanal (110-41-8)</b>	
LC50 - Fish [1]	0.35 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0.21 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.11 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.18 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	0.778 mg/l Source: EPISUITE
<b>Caryophyllene (87-44-5)</b>	
EC50 72h - Algae [1]	> 0.033 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
<b>[3R-(3<math>\alpha</math>,3<math>\beta</math>,6<math>\beta</math>,7<math>\beta</math>,8<math>\alpha</math>)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (19870-74-7)</b>	
LC50 - Fish [1]	0.373 mg/l Source: ECOSAR
EC50 - Crustacea [1]	0.48 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [2]	1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	0.662 mg/l Source: ECOSAR
<b>cedrol (77-53-2)</b>	
LC50 - Fish [1]	1.54 mg/l Source: ECOSAR
EC50 96h - Algae [1]	1.596 mg/l Test organisms (species):
<b>(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one (79-77-6)</b>	
LC50 - Fish [1]	5.09 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	6.81 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	4.03 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	22.15 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	21.15 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	12.2 mg/l Source: IUCLID
<b>3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)</b>	
LC50 - Fish [1]	10.9 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	9 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 20 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
<b>4-tert-butylcyclohexyl acetate (32210-23-4)</b>	
LC50 - Fish [1]	8.6 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	5.3 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)



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<b>Pin-2(3)-ene (80-56-8)</b>	
LC50 - Fish [1]	0.303 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0.475 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	1.44 mg/l waterflea
<b>[3R-(3<math>\alpha</math>,3<math>\beta</math>,7<math>\beta</math>,8<math>\alpha</math>)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (32388-55-9)</b>	
LC50 - Fish [1]	2.3 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	3 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	0.86 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	2.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.23 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.087 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Oils, cedarwood (8000-27-9)</b>	
LC50 - Fish [1]	0.046 mg/l Source: Quantitative Structure Activity Relation
EC50 96h - Algae [1]	0.05 mg/l Source: Ecological Structure Activity Relationships
<b>12.2. Persistence and degradability</b>	
<b>HG laminate cleaner   HG laminate, vinyl and PVC cleaner (product 72)</b>	
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
<b>Water (7732-18-5)</b>	
Persistence and degradability	Rapidly degradable
<b>citric acid (77-92-9)</b>	
Persistence and degradability	Rapidly degradable
Biochemical oxygen demand (BOD)	0.526 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.728 g O <sub>2</sub> /g substance
Biodegradation	97 %
<b>Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)</b>	
Persistence and degradability	Rapidly degradable
Biodegradation	92.5 % (OECD 301B method)
<b>Aqueous styrene copolymer dispersion</b>	
Persistence and degradability	Rapidly degradable
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)</b>	
Persistence and degradability	Rapidly degradable
Chemical oxygen demand (COD)	0.51 g O <sub>2</sub> /g substance
Biodegradation	80 % (OECD 302B method)
Additional information	95 % biodegradation (OECD 301E method)

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<b>Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
Persistence and degradability	Rapidly degradable
<b>tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (51981-21-6)</b>	
Persistence and degradability	Rapidly degradable
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
Persistence and degradability	Rapidly degradable
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
Persistence and degradability	Rapidly degradable
<b>2-methylundecanal (110-41-8)</b>	
Persistence and degradability	Rapidly degradable
<b>Caryophyllene (87-44-5)</b>	
Persistence and degradability	Rapidly degradable
<b>[3R-(3<math>\alpha</math>,3<math>\alpha</math><math>\beta</math>,6<math>\beta</math>,7<math>\beta</math>,8<math>\alpha</math>)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (19870-74-7)</b>	
Persistence and degradability	Rapidly degradable
<b>[3R-(3<math>\alpha</math>,3<math>\alpha</math><math>\beta</math>,7<math>\beta</math>,8<math>\alpha</math>)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (469-61-4)</b>	
Persistence and degradability	Rapidly degradable
<b>cedrol (77-53-2)</b>	
Persistence and degradability	Rapidly degradable
<b>(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one (79-77-6)</b>	
Persistence and degradability	Rapidly degradable
<b>(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (68877-29-2)</b>	
Persistence and degradability	Rapidly degradable
<b>(Z)-3,4,5,6,6-pentamethylhept-3-en-2-one (81786-73-4)</b>	
Persistence and degradability	Rapidly degradable
<b>3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)</b>	
Persistence and degradability	Rapidly degradable
<b>4-tert-butylcyclohexyl acetate (32210-23-4)</b>	
Persistence and degradability	Rapidly degradable
<b>Pin-2(3)-ene (80-56-8)</b>	
Persistence and degradability	Rapidly degradable
<b>Reaction products of acetic anhydride and 1,5,10-trimethyl-1,5,9-cyclodecatriene (144020-22-4)</b>	
Persistence and degradability	Rapidly degradable
<b>[3R-(3<math>\alpha</math>,3<math>\alpha</math><math>\beta</math>,7<math>\beta</math>,8<math>\alpha</math>)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (32388-55-9)</b>	
Persistence and degradability	Rapidly degradable
<b>Oils, cedarwood (8000-27-9)</b>	
Persistence and degradability	Rapidly degradable

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### 12.3. Bioaccumulative potential

#### Water (7732-18-5)

Partition coefficient n-octanol/water (Log Pow) -1.38

#### citric acid (77-92-9)

Partition coefficient n-octanol/water (Log Pow) -1.67

#### Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)

Partition coefficient n-octanol/water (Log Pow) 3.1

#### Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)

Partition coefficient n-octanol/water (Log Pow) 0.3

#### Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

Partition coefficient n-octanol/water (Log Pow) 0.18

#### tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (51981-21-6)

Partition coefficient n-octanol/water (Log Pow) < 3.7

#### 2-methylisothiazol-3(2H)-one (2682-20-4)

Partition coefficient n-octanol/water (Log Pow) -0.49

#### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

Partition coefficient n-octanol/water (Log Pow) 0.7

#### 2-methylundecanal (110-41-8)

Partition coefficient n-octanol/water (Log Pow) 4.67 Source: NLM;ChemIDPlus

#### cedrol (77-53-2)

Partition coefficient n-octanol/water (Log Pow) 4.33 Source: ChemIDPlus

#### 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)

Partition coefficient n-octanol/water (Log Pow) 4.7 Source: ECHA Registered substances

#### Pin-2(3)-ene (80-56-8)

Partition coefficient n-octanol/water (Log Pow) 4.32

#### Oils, cedarwood (8000-27-9)

Partition coefficient n-octanol/water (Log Pow) 5.74 Source: Quantitative Structure Activity Relation

### 12.4. Mobility in soil

#### Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

Mobility in soil 388.3 – 1416 Source: ECHA

#### 2-methylundecanal (110-41-8)

Mobility in soil 192.1 Source: EPISUITE

#### cedrol (77-53-2)

Mobility in soil 810.4 Source: EPISUITE

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<b>(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one (79-77-6)</b>	
Mobility in soil	666.7 Source: EPISUITE
<b>(Z)-3,4,5,6,6-pentamethylhept-3-en-2-one (81786-73-4)</b>	
Mobility in soil	2744 Source: EPISUITE v4.1
<b>Pin-2(3)-ene (80-56-8)</b>	
Mobility in soil	2600 Source: HSDB
<b>[3R-(3<math>\alpha</math>,3<math>\beta</math>,7<math>\beta</math>,8<math>\alpha</math>)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (32388-55-9)</b>	
Mobility in soil	3.8 Source: Quantitative Structure Activity Relation

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Dispose of in accordance with relevant local regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Do not flush down sewers. Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Do not dispose of the packaging without first carrying out the necessary cleaning. Disposal must be done according to official regulations.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated for transport				
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>Transport document description</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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ADR	IMDG	IATA	ADN	RID
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Detergent Regulation (648/2004)

#### Allergenic fragrances > 0.01 %:

JUNIPERUS VIRGINIANA OIL; JUNIPERUS VIRGINIANA WOOD OIL

Labelling of contents	
Component	%
anionic surfactants	<5%
2-BROMO-2-NITROPROPANE-1,3-DIOL	

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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2020/878.

Labelling of contents	
Component	%
METHYLISOTHIAZOLINONE	
BENZISOTHIAZOLINONE	
perfumes	

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. United Kingdom

#### UK REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### UK REACH Candidate List (SVHC)

Contains no substance(s) listed on the UK REACH Candidate List

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration

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## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2020/878.

Abbreviations and acronyms:	
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

### Training advice

: Ensure personnel is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

### Other information

: Normal use of this product shall imply use in accordance with the instructions on the packaging. **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1

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Full text of H- and EUH-statements:	
EUH208	Contains 2-methylisothiazol-3(2H)-one (2682-20-4) (00180). May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.