HG awning and tent cleaner

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: 05/07/2024 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 awning and tent cleaner
Product code	:	615 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
Function or use category	:	Outdoor textiles - 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.
P.J. Oudweg 41
NL– 1314 CJ Almere
The Netherlands
T +31 (0)36 54 94 700
safety@hg.eu - www.hg.eu

1.4. Emergency telephone number

Emergency number	:	+31 (0)36 54 94 777 Only for medical personnel Mon-Fri 09:00 AM - 05:00 PM (CEST)

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)

Serious eye damage/eye irritation, Category 1 H318
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms (GB CLP) :

GHS05

Signal word (GB CLP) : Danger

Contains : Sodium etasulphate; hydrogen peroxide solution… %

Hazard statements (GB CLP) : H318 - Causes serious eye damage.

Precautionary statements (GB CLP) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P280 - Wear protective gloves.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Child-resistant fastening : Not applicable

Tactile warning : Not applicable

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 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	≥ 90	Not classified
Sodium etasulphate	CAS-No.: 126-92-1 EC-No.: 204-812-8 REACH-no: 01-2119971586-23	≥ 2 – < 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
hydrogen peroxide solution… % (Note B)	CAS-No.: 7722-84-1 EC-No.: 231-765-0 UK Index-No.: 008-003-00-9 REACH-no: 01-2119485845-22	≥ 2 – < 5	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 (ATE=693.7 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) Skin Corr. 1A, H314
Alcohols, C12-14, ethoxylated	CAS-No.: 68439-50-9	≥ 0.1 – < 1	Not classified
Phosphonic acid, (1-hydroxyethylidene)bis-	CAS-No.: 2809-21-4 EC-No.: 220-552-8 REACH-no: 01-2119510391-53	≥ 0.1 – < 1	Met. Corr. 1, H290 Eye Dam. 1, H318
Oxirane, 2-methyl-, polymer with oxirane	CAS-No.: 9003-11-6 EC-No.: 618-355-0	≥ 0.1 – < 1	Not classified

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 UK Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	≥ 0.1 – < 1	Skin Corr. 1, H314 Eye Dam. 1, H318
Hexyl salicylate	CAS-No.: 6259-76-3 EC-No.: 228-408-6 REACH-no: 01-2119638275-36	≥ 0.001 – < 0.01	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,5,5-trimethylhexyl acetate	CAS-No.: 58430-94-7 EC-No.: 261-245-9 REACH-no: 01-2119972325-34	≥ 0.001 – < 0.01	Skin Irrit. 2, H315 Aquatic Chronic 2, H411
Tetrahydrolinalool	CAS-No.: 78-69-3 EC-No.: 201-133-9 REACH-no: 01-2119454788-21	≥ 0.001 – < 0.01	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
phosphorous acid	CAS-No.: 10294-56-1 EC-No.: 233-663-1	< 0.01	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1A, H314
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 UK Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	≥ 0.001 – < 0.01	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
acetic acid … %	CAS-No.: 64-19-7 EC-No.: 200-580-7 REACH-no: 01-2119475328-30	< 0.01	Flam. Liq. 3, H226 Skin Corr. 1A, H314
Citronellol	CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995-23	≥ 0.001 – < 0.01	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
2,6-dimethyl-7-octen-2-ol	CAS-No.: 18479-58-8 EC-No.: 242-362-4 REACH-no: 01-2119457274-37	< 0.01	Skin Irrit. 2, H315 Eye Irrit. 2, H319
1-ethoxy-1-phenylethoxyethane	CAS-No.: 2556-10-7 EC-No.: 219-868-9 REACH-no: 01-2120765766-38	< 0.01	Aquatic Chronic 2, H411
tricyclodecenyl-8-isobutyrate	CAS-No.: 67634-20-2 EC-No.: 266-825-5 REACH-no: 01-2120756110-68	< 0.01	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
TRICYCLODECENYL PROPIONATE	CAS-No.: 17511-60-3 EC-No.: 241-514-7 REACH-no: 01-2119969447-21	< 0.01	Not classified

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
2,4-dimethylcyclohexene-3-carbaldehyde	CAS-No.: 68039-49-6 EC-No.: 268-264-1 REACH-no: 01-2119982384-28	< 0.01	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
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
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol	CAS-No.: 106-24-1 EC-No.: 203-377-1 UK Index-No.: 603-241-00-5 REACH-no: 01-2119552430-49	≥ 0.001 – < 0.01	Skin Sens. 1, H317
methyl-2-nonenoate	CAS-No.: 111-79-5 EC-No.: 203-908-7 REACH-no: 01-2120739873-43	< 0.001	Aquatic Acute 1, H400 Aquatic Chronic 2, H411
3,7-dimethyl-6-octen-1-yl formate	CAS-No.: 105-85-1 EC-No.: 203-338-9 REACH-no: 01-2120132106-71	< 0.001	Skin Irrit. 2, H315 Skin Sens. 1, H317
2-methyl-4-isopropyldihydrocinnamaldehyde	CAS-No.: 103-95-7 EC-No.: 203-161-7 REACH-no: 01-2119970582-32	< 0.001	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Nerol	CAS-No.: 106-25-2 EC-No.: 203-378-7 REACH-no: 01-2120051521-69	< 0.001	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
hydrogen peroxide solution… %	CAS-No.: 7722-84-1 EC-No.: 231-765-0 UK Index-No.: 008-003-00-9 REACH-no: 01-2119485845-22	(5 ≤ C < 8) Eye Irrit. 2, H319 (8 ≤ C < 50) Eye Dam. 1, H318 (35 ≤ C < 50) Skin Irrit. 2, H315 (35 ≤ C ≤ 100) STOT SE 3, H335 (50 ≤ C < 70) Ox. Liq. 2, H272 (50 ≤ C < 70) Skin Corr. 1B, H314 (70 ≤ C ≤ 100) Ox. Liq. 1, H271 (70 ≤ C ≤ 100) Skin Corr. 1A, H314
Sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 UK Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	(0.5 ≤ C < 2) Skin Irrit. 2, H315 (0.5 ≤ C < 2) Eye Irrit. 2, H319 (2 ≤ C < 5) Skin Corr. 1B, H314 (5 ≤ C ≤ 100) Skin Corr. 1A, H314

Note 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.

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 general : If you feel unwell, seek medical advice.
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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
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

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : None under normal conditions.

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.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Explosion hazard : Intense heat may cause container to burst.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : Runoff from fire control or dilution water may cause pollution.
Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection. Control run-off water by containing and keeping it out of sewers and watercourses.
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. Avoid contact with skin and eyes.

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 : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. 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

No additional information available

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. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.
Storage temperature : > 0 – < 30 °C
Heat and ignition sources : Keep away from heat and direct sunlight.
Storage area : keep in frostfree area.
Special rules on packaging : Keep only in original container. Opened containers must be carefully closed and kept upright to avoid leakage.
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

acetic acid … % (64-19-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Acetic acid
WEL TWA (OEL TWA)	25 mg/m³
	10 ppm
WEL STEL (OEL STEL)	50 mg/m³
	20 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

hydrogen peroxide solution… % (7722-84-1)	
United Kingdom - Occupational Exposure Limits	
Local name	Hydrogen peroxide
WEL TWA (OEL TWA)	1.4 mg/m³
	1 ppm
WEL STEL (OEL STEL)	2.8 mg/m³

hydrogen peroxide solution… % (7722-84-1)	
	2 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Sodium hydroxide; caustic soda (1310-73-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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

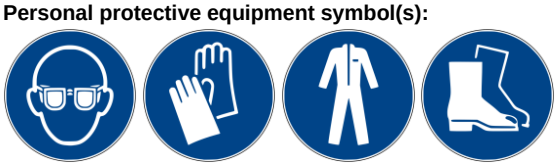
8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment - Report preview:
Safety glasses. Gloves. Protective clothing. Wear foot protection.

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 - Report preview:
In case of possible repeated skin contact wear protective clothing

Skin and body protection	
Type	**Standard**
Long sleeved protective clothing	
Chemical resistant safety shoes	EN ISO 20345

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

Other information:
Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Colourless.
Odour	:	Characteristic.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Non flammable.
Explosive limits	:	Not available
Flash point	:	Not available Not sustained combustibility
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	5 – 6
pH solution	:	5.5
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	:	Not available
Relative density	:	1.01 – 1.02
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

Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)	
Boiling point	457 °C
Vapour pressure	0.000000017 Pa Temp.: 25 °C

acetic acid … % (64-19-7)	
Boiling point	117.9 °C Atm. press.: 101,325 kPa Remarks on result: 'other:'

acetic acid … % (64-19-7)	
Flash point	39 °C Atm. press.: 101,3 kPa
Auto-ignition temperature	39 °C
Vapour pressure	20.79 hPa Temp.: 25 °C

Alcohols, C12-14, ethoxylated (68439-50-9)	
Boiling point	540.1 K Source: Echa
Flash point	143 °C Source: Echa

Sodium etasulphate (126-92-1)	
Boiling point	≈ 191 °C Atm. press.: 1012 mBar Decomposition: 'yes' Decomp. temp.: 191 °C
Auto-ignition temperature	400 °C Source: ECHA
Vapour pressure	≤ 1.2 Pa Temp.: 20 °C Remarks on result: 'other:'

Oxirane, 2-methyl-, polymer with oxirane (9003-11-6)	
Flash point	> 96 °C

methyl-2-nonenoate (111-79-5)	
Boiling point	209.9 °C Decomposition: 'no' Remarks on result: 'other:'

Citronellol (106-22-9)	
Boiling point	223.8 °C Atm. press.: 1013 hPa
Flash point	107 °C Atm. press.: 1013 hPa
Auto-ignition temperature	240 °C Source: ECHA
Vapour pressure	9 Pa 25°C

3,7-dimethyl-6-octen-1-yl formate (105-85-1)	
Boiling point	249.85 °C Atm. press.: 101325 Pa Decomposition: 'no'
Flash point	95 °C Atm. press.: 101325 Pa
Vapour pressure	4 Pa Temp.: 20 °C

2-methyl-4-isopropyldihydrocinnamaldehyde (103-95-7)	
Boiling point	234 °C Atm. press.: 101,325 kPa
Flash point	79.5 °C Atm. press.: 101325 Pa
Vapour pressure	0.3 Pa Temp.: 20 °C

2,6-dimethyl-7-octen-2-ol (18479-58-8)	
Boiling point	193 °C Atm. press.: 100,9 kPa
Flash point	76 °C Atm. press.: 101,325 kPa
Vapour pressure	20 Pa Temp.: 25 °C

1-ethoxy-1-phenylethoxyethane (2556-10-7)	
Boiling point	248.2 °C Atm. press.: 101325 Pa
Flash point	104 °C Atm. press.: 101300 Pa
Vapour pressure	3.1 Pa Temp.: 24 °C

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
Boiling point	229 °C
Flash point	108 °C Atm. press.: 1013 hPa
Vapour pressure	4.6 Pa 25°C

Hexyl salicylate (6259-76-3)	
Boiling point	290 °C Source: National Institute of Technology and Evaluation
Flash point	151 °C Atm. press.: 101,1 kPa
Vapour pressure	0.000077 kPa Temp.: 23 °C

3,5,5-trimethylhexyl acetate (58430-94-7)	
Boiling point	207.1 °C Atm. press.: 1013 hPa Decomposition: 'no'
Flash point	70 °C Atm. press.: 1013 hPa
Vapour pressure	136 Pa Temp.: 25 °C

Nerol (106-25-2)	
Boiling point	222.85 °C Atm. press.: 985 hPa Decomposition: 'no'
Flash point	97 °C Atm. press.: 1 atm
Vapour pressure	3.99 Pa 25°C

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:'

2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
Boiling point	196 °C
Flash point	70 °C Atm. press.: 101325 Pa
Vapour pressure	36 Pa Temp.: 20 °C

Tetrahydrolinalool (78-69-3)	
Boiling point	197 °C Atm. press.: 1013,25 hPa
Flash point	77 °C Atm. press.: 1013 hPa
Vapour pressure	0.111 hPa Temp.: 19,6 °C

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Boiling point	196.3 °C Atm. press.: 99,2 kPa Decomposition: 'no' Decomp. temp.: 196,3 °C Remarks on result: 'other:'
Flash point	≈ 77.2 °C Atm. press.: 101,3 kPa
Auto-ignition temperature	235 °C Source: International Chemical Safety Cards
Vapour pressure	27 Pa Temp.: 298 K

hydrogen peroxide solution… % (7722-84-1)	
Boiling point	150 °C
Vapour pressure	299.25 Pa 25°C

Sodium hydroxide; caustic soda (1310-73-2)	
Boiling point	1388 °C Atm. press.: 101,325 kPa Decomposition: 'no' Remarks on result: 'other:'
Vapour pressure	0 Pa 25°C

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not sustained combustibility : Yes

9.2.2. Other safety characteristics

No additional information available

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

Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)	
LD50 oral rat	3130 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 2660 - 3665
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
ATE GB CLP (oral)	3130 mg/kg bodyweight

phosphorous acid (10294-56-1)	
ATE GB CLP (oral)	500 mg/kg bodyweight

acetic acid … % (64-19-7)	
LD50 oral rat	3310 mg/kg bodyweight Animal: rat, Remarks on results: other:
LD50 oral	4960 mg/kg bodyweight Animal: mouse, Remarks on results: other:
ATE GB CLP (oral)	3310 mg/kg bodyweight

Alcohols, C12-14, ethoxylated (68439-50-9)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral)), Guideline: other:
LD50 dermal rabbit	> 3000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LC50 Inhalation - Rat	> 1.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:

Sodium etasulphate (126-92-1)	
LD50 oral rat	4000 mg/kg Source: NLM
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	6540 mg/kg Source: NLM
ATE GB CLP (oral)	4000 mg/kg bodyweight
ATE GB CLP (dermal)	6540 mg/kg bodyweight

Oxirane, 2-methyl-, polymer with oxirane (9003-11-6)	
LD50 oral rat	5000 mg/kg
ATE GB CLP (oral)	5000 mg/kg bodyweight

Citronellol (106-22-9)	
LD50 oral rat	3450 mg/kg Source: National Library of Medicine
LD50 oral	3450 mg/kg bodyweight
LD50 dermal rabbit	2650 mg/kg Source: National Library of Medicine
LD50 dermal	2650 mg/kg bodyweight
ATE GB CLP (oral)	3450 mg/kg bodyweight
ATE GB CLP (dermal)	2650 mg/kg bodyweight

3,7-dimethyl-6-octen-1-yl formate (105-85-1)	
LD50 oral rat	> 6800 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

2-methyl-4-isopropyldihydrocinnamaldehyde (103-95-7)	
LD50 oral rat	2000 – 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat
ATE GB CLP (oral)	2000 mg/kg bodyweight

1-ethoxy-1-phenylethoxyethane (2556-10-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
LD50 oral rat	3600 mg/kg bodyweight Animal: rat, 95% CL: 2840 - 4570
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
ATE GB CLP (oral)	3600 mg/kg bodyweight

Hexyl salicylate (6259-76-3)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

3,5,5-trimethylhexyl acetate (58430-94-7)	
LD50 oral rat	4250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 3540 - 4960
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE GB CLP (oral)	4250 mg/kg bodyweight

Nerol (106-25-2)	
LD50 oral rat	4500 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 3400 - 5600
LD50 oral	4500 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LD50 dermal	> 5000 mg/kg bodyweight
ATE GB CLP (oral)	4500 mg/kg bodyweight

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

2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
LD50 oral rat	3900 mg/kg bodyweight Animal: rat, Guideline: other:, 95% CL: 2900 - 5100
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: other:
ATE GB CLP (oral)	3900 mg/kg bodyweight

Tetrahydrolinalool (78-69-3)	
LD50 oral rat	8270 mg/kg bodyweight Animal: rat, Remarks on results: other:
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
ATE GB CLP (oral)	8270 mg/kg bodyweight

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
LD50 oral rat	2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 2440 - 3180
LD50 oral	2790 mg/kg bodyweight
LD50 dermal rabbit	5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374
LD50 dermal	5610 mg/kg bodyweight
ATE GB CLP (oral)	2790 mg/kg bodyweight
ATE GB CLP (dermal)	5610 mg/kg bodyweight

hydrogen peroxide solution… % (7722-84-1)	
LD50 oral rat	693.7 mg/kg Source: ECHA
ATE GB CLP (oral)	693.7 mg/kg bodyweight
ATE GB CLP (gases)	4500 ppmv/4h
ATE GB CLP (vapours)	11 mg/l/4h
ATE GB CLP (dust, mist)	1.5 mg/l/4h

Skin corrosion/irritation : Not classified (Conclusive but not sufficient for classification)
pH: 5 – 6

Water (7732-18-5)	
pH	7

Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)	
pH	2.5

Sodium etasulphate (126-92-1)	
pH	10.5 – 11.5

Oxirane, 2-methyl-, polymer with oxirane (9003-11-6)	
pH	3.5 – 6.5

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)	
pH	5.44 Temp.: 30 °C Concentration: 1 other: Remarks on result: 'other:'

Sodium hydroxide; caustic soda (1310-73-2)	
pH	> 14

Serious eye damage/irritation : Causes serious eye damage.
pH: 5 – 6

Water (7732-18-5)	
pH	7

Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)	
pH	2.5

Sodium etasulphate (126-92-1)	
pH	10.5 – 11.5

Oxirane, 2-methyl-, polymer with oxirane (9003-11-6)	
pH	3.5 – 6.5

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)	
pH	5.44 Temp.: 30 °C Concentration: 1 other: Remarks on result: 'other:'

Sodium hydroxide; caustic soda (1310-73-2)	
pH	> 14

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)

hydrogen peroxide solution… % (7722-84-1)	
IARC group	3 - Not classifiable

Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)	
NOAEL (chronic, oral, animal/male, 2 years)	≥ 384 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (chronic, oral, animal/female, 2 years)	≥ 493 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:

Reproductive toxicity : Not classified (Conclusive but not sufficient for classification)

Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)	
NOAEL (animal/male, F1)	≈ 294 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]

STOT-single exposure : Not classified (Conclusive but not sufficient for classification)

STOT-repeated exposure : Not classified (Conclusive but not sufficient for classification)

acetic acid … % (64-19-7)	
NOAEL (oral, rat, 90 days)	290 mg/kg bodyweight Animal: rat, Animal sex: male

Alcohols, C12-14, ethoxylated (68439-50-9)	
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Sodium etasulphate (126-92-1)	
LOAEL (oral, rat, 90 days)	1016 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	488 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Citronellol (106-22-9)	
NOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: other:
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.063 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

3,7-dimethyl-6-octen-1-yl formate (105-85-1)	
NOAEL (oral, rat, 90 days)	800 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Remarks on results: other:

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
NOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: other:

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)	
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)
NOAEL (dermal, rat/rabbit, 90 days)	50 mg/kg bodyweight Animal: rat, Guideline: other:, Remarks on results: other:

2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
LOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: other:

Tetrahydrolinalool (78-69-3)	
NOAEL (dermal, rat/rabbit, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
NOAEL (dermal, rat/rabbit, 90 days)	250 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)

acetic acid … % (64-19-7)	
Viscosity, kinematic	1015.385 mm²/s

Citronellol (106-22-9)	
Viscosity, kinematic	12.984 mm²/s

2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
Viscosity, kinematic	2243 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'

Tetrahydrolinalool (78-69-3)	
Viscosity, kinematic	13393.462 mm²/s

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Viscosity, kinematic	5191.86 mm²/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 : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified (Conclusive but not sufficient for classification)

Hazardous to the aquatic environment, long–term (chronic) : Not classified (Conclusive but not sufficient for classification)

Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)	
LC50 - Fish [1]	195 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	527 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	1770 mg/l Test organisms (species): Palaemonetes pugio
NOEC (chronic)	6.75 mg/l Test organisms (species): Daphnia magna Duration: '28 d'

acetic acid … % (64-19-7)	
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	> 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	> 300.82 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Skeletonema costatum
EC50 72h - Algae [2]	> 300.82 mg/l Test organisms (species): Skeletonema costatum

Alcohols, C12-14, ethoxylated (68439-50-9)	
LC50 - Fish [1]	6.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	1.2 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	1.2 mg/l Test organisms (species): Daphnia magna

Sodium etasulphate (126-92-1)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	483 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 511 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	6.86 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	1.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 1357 mg/l Test organisms (species): Pimephales promelas Duration: '42 d'

methyl-2-nonenoate (111-79-5)	
EC50 - Crustacea [1]	320 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	1026514 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1210891 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Citronellol (106-22-9)	
LC50 - Fish [1]	14.66 mg/l Test organisms (species): Leuciscus idus

Citronellol (106-22-9)	
EC50 - Crustacea [1]	17.48 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	17.48 mg/l waterflea
EC50 - Other aquatic organisms [2]	2.38 mg/l
EC50 72h - Algae [1]	2.4 mg/l Test organisms (species):
EC50 96h - Algae [1]	3.231 mg/l Source: Ecological Structure Activity Relationships

3,7-dimethyl-6-octen-1-yl formate (105-85-1)	
LC50 - Fish [1]	1.3 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	7.6 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	3.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	1.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

2-methyl-4-isopropyldihydrocinnamaldehyde (103-95-7)	
LC50 - Fish [1]	1.42 mg/l Test organisms (species):
LC50 - Fish [2]	2.49 mg/l Test organisms (species):
EC50 - Crustacea [1]	1.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4.3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	2.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	3.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	2.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

2,6-dimethyl-7-octen-2-ol (18479-58-8)	
LC50 - Fish [1]	27.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	38 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	80 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	65 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	9.5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

1-ethoxy-1-phenylethoxyethane (2556-10-7)	
LC50 - Fish [1]	7.2 mg/l Test organisms (species): other:
EC50 - Crustacea [1]	15.6 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	15.6 mg/l Test organisms (species):
EC50 72h - Algae [1]	8.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
LC50 - Fish [1]	≈ 22 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	10.8 mg/l Test organisms (species): Daphnia magna

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
EC50 - Other aquatic organisms [1]	10.8 mg/l waterflea
EC50 72h - Algae [1]	13.1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Hexyl salicylate (6259-76-3)	
LC50 - Fish [1]	0.191 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	0.357 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.61 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	0.28 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	0.229 mg/l Source: Ecological Structure Activity Relationships

3,5,5-trimethylhexyl acetate (58430-94-7)	
LC50 - Fish [1]	7.7 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	> 5.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 3.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	1.3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 3.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	2.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

Nerol (106-25-2)	
LC50 - Fish [1]	20.3 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	32.4 mg/l Test organisms (species): Daphnia magna

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

2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
LC50 - Fish [1]	7.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	22.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	28 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	5.5 mg/l Source: EPISUITE v4.1

Tetrahydrolinalool (78-69-3)	
LC50 - Fish [1]	8.9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	14.2 mg/l Test organisms (species): Daphnia magna

Tetrahydrolinalool (78-69-3)	
EC50 72h - Algae [1]	21.6 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	3.226 mg/l Source: Ecological Structure Activity Relationships

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
LC50 - Fish [1]	27.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	59 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	20 mg/l waterflea
EC50 - Other aquatic organisms [2]	88.3 mg/l
EC50 96h - Algae [1]	88.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [2]	156.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

hydrogen peroxide solution… % (7722-84-1)	
LC50 - Fish [1]	16.4 mg/l
EC50 - Other aquatic organisms [1]	7.7 mg/l waterflea
EC50 72h - Algae [1]	1.38 mg/l Source: ECHA

Sodium hydroxide; caustic soda (1310-73-2)	
LC50 - Fish [1]	> 35 mg/l
EC50 - Crustacea [1]	40.4 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 - Other aquatic organisms [1]	> 33 mg/l waterflea

12.2. Persistence and degradability

HG awning and tent cleaner	
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.

Water (7732-18-5)	
Persistence and degradability	Rapidly degradable

Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)	
Persistence and degradability	Rapidly degradable

phosphorous acid (10294-56-1)	
Persistence and degradability	Rapidly degradable

acetic acid … % (64-19-7)	
Persistence and degradability	Rapidly degradable

Alcohols, C12-14, ethoxylated (68439-50-9)	
Persistence and degradability	Rapidly degradable

Sodium etasulphate (126-92-1)	
Persistence and degradability	Rapidly degradable
Oxirane, 2-methyl-, polymer with oxirane (9003-11-6)	
Persistence and degradability	Rapidly degradable
methyl-2-nonenoate (111-79-5)	
Persistence and degradability	Rapidly degradable
Citronellol (106-22-9)	
Persistence and degradability	Rapidly degradable
3,7-dimethyl-6-octen-1-yl formate (105-85-1)	
Persistence and degradability	Rapidly degradable
2-methyl-4-isopropyldihydrocinnamaldehyde (103-95-7)	
Persistence and degradability	Rapidly degradable
2,6-dimethyl-7-octen-2-ol (18479-58-8)	
Persistence and degradability	Rapidly degradable
1-ethoxy-1-phenylethoxyethane (2556-10-7)	
Persistence and degradability	Rapidly degradable
tricyclodecenyl-8-isobutyrate (67634-20-2)	
Persistence and degradability	Rapidly degradable
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
Persistence and degradability	Rapidly degradable
Hexyl salicylate (6259-76-3)	
Persistence and degradability	Rapidly degradable
3,5,5-trimethylhexyl acetate (58430-94-7)	
Persistence and degradability	Rapidly degradable
Nerol (106-25-2)	
Persistence and degradability	Rapidly degradable
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)	
Persistence and degradability	Rapidly degradable
TRICYCLODECENYL PROPIONATE (17511-60-3)	
Persistence and degradability	Rapidly degradable
2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
Persistence and degradability	Rapidly degradable
Tetrahydrolinalool (78-69-3)	
Persistence and degradability	Rapidly degradable
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Persistence and degradability	Rapidly degradable

hydrogen peroxide solution… % (7722-84-1)	
Persistence and degradability	Rapidly degradable

Sodium hydroxide; caustic soda (1310-73-2)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

HG awning and tent cleaner	
Bioaccumulative potential	No bioaccumulation expected.

Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38

Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)	
Partition coefficient n-octanol/water (Log Pow)	-3.5

acetic acid … % (64-19-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.2

Sodium etasulphate (126-92-1)	
Partition coefficient n-octanol/water (Log Pow)	-0.35

Citronellol (106-22-9)	
Partition coefficient n-octanol/water (Log Pow)	3.1

2-methyl-4-isopropyldihydrocinnamaldehyde (103-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.91 Source: Ecological Structure Activity Relationships

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	3.5

Hexyl salicylate (6259-76-3)	
Partition coefficient n-octanol/water (Log Pow)	5.06 Source: Quantitative Structure Activity Relation

Nerol (106-25-2)	
Partition coefficient n-octanol/water (Log Pow)	3.47

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

2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
Partition coefficient n-octanol/water (Log Pow)	2.7

Tetrahydrolinalool (78-69-3)	
Partition coefficient n-octanol/water (Log Pow)	3.6 Source: Ecological Structure Activity Relationships

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84

hydrogen peroxide solution… % (7722-84-1)	
Partition coefficient n-octanol/water (Log Pow)	-1.6

Sodium hydroxide; caustic soda (1310-73-2)	
Partition coefficient n-octanol/water (Log Pow)	-3.88

12.4. Mobility in soil

HG awning and tent cleaner	
Ecology - soil	Expected to be highly mobile in soil.

Citronellol (106-22-9)	
Mobility in soil	70.79 Source: Quantitative Structure Activity Relation

2-methyl-4-isopropyldihydrocinnamaldehyde (103-95-7)	
Mobility in soil	2.859 Source: Quantitative Structure Activity Relation

Hexyl salicylate (6259-76-3)	
Mobility in soil	6686 Source: Quantitative Structure Activity Relation

2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
Mobility in soil	187.2 Source: EPISUITE v4.1

Tetrahydrolinalool (78-69-3)	
Mobility in soil	319.8 Source: EPI Suite

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Mobility in soil	76 Source: HSDB

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 : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Empty containers retain product residue and can be hazardous. Do not dispose of the packaging without first carrying out the necessary cleaning. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.

SECTION 14: Transport information

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

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

Labelling of contents	
Component	**%**
phosphonates, non-ionic surfactants, anionic surfactants, oxygen-based bleaching agents	<5%
perfumes	

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)
ANNEX I RESTRICTED EXPLOSIVES PRECURSORS
List of substances which are not to be made available to, or introduced, possessed or used by, members of the general public, whether on their own or in mixtures or substances that include those substances, unless the concentration is equal to or lower than the limit values set out in column 2, and for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Limit value	Upper limit value for licensing under Article 5(3)	Combined Nomenclature (CN) code for a separate chemically defined compound meeting the requirements of Note 1 to Chapter 28 or 29 of the CN, respectively	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Hydrogen peroxide	7722-84-1	12 % w/w	35% w/w	2847 00 00	ex 3824 99 96

Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en

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

Indication of changes (UK)			
Section	**Changed item**	**Change**	**Comments**
16 - Other information	Training advice	Modified	
16 - Other information	Other information	Modified	

Indication of changes (UK)			
Section	**Changed item**	**Change**	**Comments**
7.1 - Precautions for safe handling	Additional hazards when processed	Added	
13.1 - Waste treatment methods	Sewage disposal recommendations	Added	
6.1 - Personal precautions, protective equipment and emergency procedures	Emergency procedures	Added	
6.1 - Personal precautions, protective equipment and emergency procedures	Protective equipment	Added	
13.1 - Waste treatment methods	Additional information	Added	
4.1 - Description of first aid measures	First-aid measures general	Added	
7.2 - Conditions for safe storage, including any incompatibilities	Technical measures	Added	
5.1 - Extinguishing media	Unsuitable extinguishing media	Added	
7.2 - Conditions for safe storage, including any incompatibilities	Packaging materials	Added	
13.1 - Waste treatment methods	Product/Packaging disposal recommendations	Added	
6.3 - Methods and material for containment and cleaning up	For containment	Added	
5.3 - Advice for firefighters	Firefighting instructions	Added	
6.1 - Personal precautions, protective equipment and emergency procedures	General measures	Added	
8.2 - Exposure controls	Environmental exposure controls	Added	

Indication of changes (UK)			
Section	**Changed item**	**Change**	**Comments**
7.2 - Conditions for safe storage, including any incompatibilities	Storage conditions	Modified	
8.2 - Exposure controls	Respiratory protection	Added	
8.2 - Exposure controls	Hand protection	Added	
8.2 - Exposure controls	Eye protection	Added	
8.2 - Exposure controls	Appropriate engineering controls	Added	
8.2 - Exposure controls	Skin and body protection	Added	
	Revision date	Added	
3 - Composition/information on ingredients	Composition/information on ingredients	Modified	

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
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration

Abbreviations and acronyms:	
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. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Full text of H- and EUH-statements:	
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Liq. 1	Oxidising Liquids, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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.