



HG terra cotta cleaner shine restorer

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: 12/07/2024 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 terra cotta cleaner shine restorer
Product code : 191 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 : Stone, tile and grout cleaning/care 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 2 H319
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye irritation.

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2.2. Label elements

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

Hazard pictograms (GB CLP)



GHS07

Signal word (GB CLP)

: Warning

Hazard statements (GB CLP)

: H319 - Causes serious eye irritation.

Precautionary statements (GB CLP)

: P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P264 - Wash hands thoroughly after handling.

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

EUH-statements (GB CLP)

: EUH208 - Contains triisobutyl phosphate, Rosin, fumarated, polymer with glycerol, ammonium salt, BENZISOTHIAZOLINONE, 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	$\geq 50 - < 90$	Not classified
(2-methoxymethylethoxy)propanol	CAS-No.: 34590-94-8 EC-No.: 252-104-2 REACH-no: 01-2119450011-60	$\geq 2 - < 5$	Not classified
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5 EC-No.: 500-241-6	$\geq 1 - < 2$	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318
Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).]	CAS-No.: 64742-56-9 EC-No.: 265-159-2 REACH-no: 01-2119480132-48	$\geq 0.1 - < 1$	Asp. Tox. 1, H304

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Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Tris(2-butoxyethyl) phosphate	CAS-No.: 78-51-3 EC-No.: 201-122-9 REACH-no: 01-2119485835-23	≥ 0.1 – < 1	Aquatic Chronic 3, H412
1-methoxy-2-propanol; monopropylene glycol methyl ether	CAS-No.: 107-98-2 EC-No.: 203-539-1 REACH-no: 01-2119457435-35	≥ 0.1 – < 1	Flam. Liq. 3, H226 STOT SE 3, H336
Rosin, fumarated, polymer with glycerol, ammonium salt	CAS-No.: 68554-18-7 EC-No.: 812-691-3	≥ 0.1 – < 1	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
Tetraamminezinc(2+) carbonate	CAS-No.: 38714-47-5 EC-No.: 254-099-2 REACH-no: 01-2120760626-49	≥ 0.1 – < 1	Not classified
triisobutyl phosphate	CAS-No.: 126-71-6 EC-No.: 204-798-3 REACH-no: 01-2119957118-32	≥ 0.1 – < 1	Skin Sens. 1, H317
p-Mentha-1,4(8)-diene	CAS-No.: 586-62-9 EC-No.: 209-578-0 REACH-no: 01-2119982325-32	≥ 0.01 – < 0.1	Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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	≥ 0.01 – < 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Terpineol	CAS-No.: 8000-41-7 EC-No.: 232-268-1 REACH-no: 01-2119553062-49	≥ 0.01 – < 0.1	Not classified
2-butoxyethanol; ethylene glycol monobutyl ether	CAS-No.: 111-76-2 EC-No.: 203-905-0 REACH-no: 01-2119475108-36	< 0.1	Acute Tox. 4 (Oral), H302 (ATE=1414 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319
Ammonia%	CAS-No.: 1336-21-6 EC-No.: 215-647-6 REACH-no: 01-2119982985-14	≥ 0.01 – < 0.1	Acute Tox. 4 (Oral), H302 (ATE=350 mg/kg bodyweight) Skin Corr. 1B, H314 Aquatic Acute 1, H400
2,6-dimethyl-7-octen-2-ol	CAS-No.: 18479-58-8 EC-No.: 242-362-4 REACH-no: 01-2119457274-37	≥ 0.01 – < 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319
(R)-p-mentha-1,8-diene; d-limonene	CAS-No.: 5989-27-5 EC-No.: 227-813-5 UK Index-No.: 601-096-00-2 REACH-no: 01-2119529223-47	≥ 0.01 – < 0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 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)
Pin-2(3)-ene	CAS-No.: 80-56-8 EC-No.: 201-291-9 REACH-no: 01-2119519223-49	≥ 0.01 – < 0.1	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
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol	CAS-No.: 464-45-9 EC-No.: 207-353-1 REACH-no: 01-2120759187-44	≥ 0.01 – < 0.1	Flam. Sol. 1, H228 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
propan-2-ol; isopropyl alcohol; isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 UK Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	≥ 0.01 – < 0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	CAS-No.: 13466-78-9 EC-No.: 236-719-3 REACH-no: 01-2119520252-55	≥ 0.001 – < 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
3,7-dimethyl-2,6-octadien-1-yl-acetate	CAS-No.: 105-87-3 EC-No.: 203-341-5 REACH-no: 01-2119973480-35	≥ 0.001 – < 0.1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Citronellol	CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995-23	≥ 0.001 – < 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
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 – < 0.1	Skin Sens. 1, H317
linalyl acetate	CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789-19	≥ 0.001 – < 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Citronellyl acetate	CAS-No.: 150-84-5 EC-No.: 205-775-0 REACH-no: 01-2119959860-27	≥ 0.001 – < 0.1	Skin Irrit. 2, H315 Aquatic Chronic 2, H411
cineole	CAS-No.: 470-82-6 EC-No.: 207-431-5 REACH-no: 01-2119967772-24	≥ 0.001 – < 0.1	Flam. Liq. 3, H226 Skin Sens. 1B, H317
citral	CAS-No.: 5392-40-5 EC-No.: 226-394-6 UK Index-No.: 605-019-00-3 REACH-no: 01-2119462829-23	≥ 0.001 – < 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373

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Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Poly(oxy-1 ; 2-ethanedilyl), α -methyl- ∞ -[(4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9-tridecafluoro-2-hydroxyonyl) oxy]-	CAS-No.: 1227060-33-4 EC-No.: 686-815-8	$\geq 0.001 - < 0.01$	Not classified
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	$\geq 0.001 - < 0.01$	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
2-methylundecanal	CAS-No.: 110-41-8 EC-No.: 203-765-0 REACH-no: 01-2119969443-29	< 0.01	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
7-methyl-3-methyleneocta-1,6-diene	CAS-No.: 123-35-3 EC-No.: 204-622-5 REACH-no: 01-2119514321-56	< 0.01	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Octanal	CAS-No.: 124-13-0 EC-No.: 204-683-8 REACH-no: 01-2119638274-38	< 0.01	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	CAS-No.: 16409-43-1 EC-No.: 240-457-5 REACH-no: 01-2119976300-42	< 0.01	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361
L-beta-pinene	CAS-No.: 18172-67-3 EC-No.: 242-060-2 REACH-no: 01-2119519230-54	< 0.01	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(E)-3,7-dimethylocta-1,3,6-triene	CAS-No.: 3779-61-1 REACH-no: 01-2120739475-47	< 0.01	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
[3R-(3 α ,3 β ,7 β ,8 α)]-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	< 0.01	Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
$\alpha,\alpha,4$ -trimethylcyclohexanemethanol	CAS-No.: 498-81-7 EC-No.: 207-871-8 REACH-no: 01-2119983276-26	< 0.01	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Camphene	CAS-No.: 79-92-5 EC-No.: 201-234-8 REACH-no: 01-2119446293-40	< 0.01	Flam. Sol. 1, H228 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
p-Mentha-1,4-diene	CAS-No.: 99-85-4 EC-No.: 202-794-6 REACH-no: 01-2120780478-40	< 0.01	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 2, H411

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Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
1-isopropyl-4-methylbenzene; p-cymene	CAS-No.: 99-87-6 EC-No.: 202-796-7 REACH-no: 01-2119881770-31	< 0.01	Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h) Asp. Tox. 1, H304 Aquatic Chronic 2, H411
2-methoxypropanol	CAS-No.: 1589-47-5 EC-No.: 216-455-5	≥ 0.001 – < 0.01	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 1B, H360D STOT SE 3, H335
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

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5 EC-No.: 500-241-6	(1 ≤ C < 10) Eye Irrit. 2, H319 (100 ≤ C < 100) Eye Dam. 1, H318
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	(0.05 ≤ C < 100) Skin Sens. 1, H317
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 general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor.
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. If eye irritation persists: Get medical advice/attention.
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 eye contact	: Eye irritation.
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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.
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 : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Precautionary measures fire : Runoff from fire control or dilution water may cause pollution.
Firefighting instructions : Fight fire from safe distance and protected location. 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 : Absorb spilled material with sand or earth. 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

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

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.

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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 conditions	: Store in dry, cool, well-ventilated area. Protect from sunlight.
Storage temperature	: > 0 – < 30 °C
Heat and ignition sources	: Keep away from heat and direct sunlight.
Storage area	: keep in frostfree area.
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

(2-methoxymethylethoxy)propanol (34590-94-8)	
United Kingdom - Occupational Exposure Limits	
Local name	(2-methoxymethylethoxy) propanol
WEL TWA (OEL TWA)	308 mg/m ³
	50 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
United Kingdom - Occupational Exposure Limits	
Local name	1-Methoxypropan-2-ol
WEL TWA (OEL TWA)	375 mg/m ³
	100 ppm
WEL STEL (OEL STEL)	560 mg/m ³
	150 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
United Kingdom - Occupational Exposure Limits	
Local name	2-Butoxyethanol
WEL TWA (OEL TWA)	123 mg/m ³
	25 ppm
WEL STEL (OEL STEL)	246 mg/m ³
	50 ppm

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2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	2-Butoxyethanol
BMGV	240 mmol/mol Creatinine Parameter: butoxyacetic acid - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
United Kingdom - Occupational Exposure Limits	
Local name	Propan-2-ol
WEL TWA (OEL TWA)	999 mg/m ³ 400 ppm
WEL STEL (OEL STEL)	1250 mg/m ³ 500 ppm
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:

Protective clothing. Gloves. Safety glasses.

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

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8.2.2.2. Skin protection

Skin and body protection - Report preview:

In case of contact with the skin : Wear suitable protective clothing

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

Hand protection - Report preview:

Protective gloves

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

Respiratory protection - Report preview:

No respiratory protection needed under normal use conditions

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.
Odour	: Floral.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 100 °C
Flammability	: Non flammable.
Lower explosion limit	: 1.1 vol %
Upper explosion limit	: 14 vol %
Flash point	: 75 °C (closed cup)
Auto-ignition temperature	: 207 °C
Decomposition temperature	: Not available
pH	: 8.8
pH solution concentration	: 100 %
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 1034 mPa·s (room temperature)
Solubility	: Soluble in: Water. Diethyl ether. Dispersible (partial solubilisation) in: Methanol. Acetone.
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
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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

Isotridecanol, ethoxylated (69011-36-5)	
Boiling point	> 280 °C Atm. press.: 101 kPa Decomposition: 'no' Remarks on result: 'other:'
Flash point	138 °C Atm. press.: 1013 hPa Remarks on result: 'other:'

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Boiling point	120.17 °C Atm. press.: 101325 Pa Decomposition: 'no'
Flash point	31.1 °C Atm. press.: 101,3 hPa
Auto-ignition temperature	31.7 – 36 °C
Vapour pressure	16400 Pa 25°C

Tris(2-butoxyethyl) phosphate (78-51-3)	
Boiling point	215 – 228 °C Atm. press.: 5,33288 hPa
Flash point	≈ 158.97 °C Atm. press.: 101,46 kPa
Auto-ignition temperature	322 °C Source: ECHA
Vapour pressure	≈ 0.0000152 Pa Temp.: 25 °C

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
Boiling point	171 °C
Flash point	67 °C Atm. press.: 1013 hPa
Auto-ignition temperature	62 °C
Vapour pressure	0.8 hPa Temp.: 20 °C

triisobutyl phosphate (126-71-6)	
Boiling point	264 °C
Vapour pressure	0.2 Pa 25°C

Ammonia% (1336-21-6)	
Boiling point	36 °C
Vapour pressure	287280 Pa 25°C

Tetraamminezinc(2+) carbonate (38714-47-5)	
Boiling point	91.8 °C Atm. press.: 100,3 kPa Decomposition: 'yes' Decomp. temp.: 91,8 °C Remarks on result: 'other:'

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

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Boiling point	82 °C
Flash point	12 °C Remarks on result: 'other:'
Auto-ignition temperature	12 °C
Vapour pressure	4400 Pa 25°C

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

3,7,7-trimethylbicyclo[4.1.0]hept-3-ene (13466-78-9)	
Boiling point	167 – 170 °C Source: AKRON
Vapour pressure	3.72 mm Hg at 25 °C Source: NLM;ChemIDplus

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:'

3,7-dimethyl-2,6-octadien-1-yl-acetate (105-87-3)	
Boiling point	243.97 °C Atm. press.: 1013,25 hPa
Flash point	109.5 °C Atm. press.: 1013,25 hPa
Vapour pressure	0.013 hPa Temp.: 20 °C 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

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

linalyl acetate (115-95-7)	
Boiling point	220 °C Atm. press.: 1013,25 hPa
Flash point	85 °C Atm. press.: 1013,25 hPa
Vapour pressure	< 1 hPa Temp.: 20 °C

7-methyl-3-methylocta-1,6-diene (123-35-3)	
Boiling point	167 °C
Flash point	≈ 45 °C Atm. press.: 1 atm

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7-methyl-3-methyleneocta-1,6-diene (123-35-3)

Vapour pressure	267.98 Pa Temp.: 25 °C Remarks on result: 'other:'
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Octanal (124-13-0)

Boiling point	175 °C
Flash point	54 °C
Auto-ignition temperature	190 °C
Vapour pressure	1.18 mm Hg

Citronellyl acetate (150-84-5)

Boiling point	239.8 °C Atm. press.: 1013,2 hPa
Flash point	93.5 °C Atm. press.: 1013,25 hPa

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (16409-43-1)

Boiling point	230 °C Atm. press.: 1013,25 hPa
Flash point	64 °C Atm. press.: 1013 hPa
Vapour pressure	0.657 mm Hg at 25°C Source: EPISUITE

L-beta-pinene (18172-67-3)

Boiling point	162 – 167 °C
Flash point	39 °C Atm. press.: 1 atm
Vapour pressure	2 mm Hg

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

cineole (470-82-6)

Boiling point	177 °C Atm. press.: 101,325 kPa Decomposition: 'no'
Flash point	52 °C Remarks on result: 'other:'
Vapour pressure	122 Pa Temp.: 20 °C

$\alpha,\alpha,4$ -trimethylcyclohexanemethanol (498-81-7)

Boiling point	205 °C Source: MSDS
Flash point	87.78 °C Source: MSDS
Vapour pressure	0.0457 mm Hg Source: EPISUITE

citral (5392-40-5)

Boiling point	\approx 230 °C Atm. press.: 1013 hPa Decomposition: 'yes' Decomp. temp.: 180 °C
Flash point	82 °C Source: ICSC
Vapour pressure	29.3 Pa 25°C

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p-Mentha-1,4(8)-diene (586-62-9)	
Boiling point	193.85 °C Atm. press.: 985 hPa Decomposition: 'no'
Flash point	62.5 °C Atm. press.: 101,3 kPa
Vapour pressure	0.74 mm Hg at 25°C Source: National Library of Medicine/Hazardous Substances Data Bank

(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Boiling point	175 °C
Flash point	51 °C Atm. press.: 1 atm
Auto-ignition temperature	245 °C Source: ECHA Registered substances
Vapour pressure	200 Pa Temp.: 298 K Remarks on result: 'other:'

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

Camphene (79-92-5)	
Boiling point	156 – 160 °C Atm. press.: 1013 mBar Remarks on result: 'other:'
Flash point	29.5 °C Atm. press.: 1013 hPa
Auto-ignition temperature	265 °C Source: ICSC
Vapour pressure	25 mm Hg at 25 °C Source: HSDB

Terpineol (8000-41-7)	
Boiling point	214 °C
Flash point	91 – 92 °C
Vapour pressure	2.6 Pa 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

p-Mentha-1,4-diene (99-85-4)	
Boiling point	181.8 °C Atm. press.: 100,7 kPa
Auto-ignition temperature	359 °C Source: ECHA
Vapour pressure	1.09 mm Hg at 25 °C Source: National Library of Medicine

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1-isopropyl-4-methylbenzene; p-cymene (99-87-6)	
Boiling point	176 °C Atm. press.: 1013 hPa Decomposition: 'no'
Flash point	48 °C Source: International Uniform Chemical Information Database
Auto-ignition temperature	435 °C
Vapour pressure	1.47 mm Hg Source: National Institute of Technology and Evaluation

(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol (464-45-9)	
Boiling point	201 °C Source: ChemIDplus
Flash point	655556 °C Remarks on result: 'other:'
Vapour pressure	0.0572 Pa Temp.: 25 °C Remarks on result: 'other:'

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : 0.36

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

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Water (7732-18-5)	
ATE GB CLP (oral)	90000 mg/kg bodyweight
Isotridecanol, ethoxylated (69011-36-5)	
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	≈ 5960 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:
ATE GB CLP (oral)	500 mg/kg bodyweight
(2-methoxymethylethoxy)propanol (34590-94-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 19020 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	9510 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE GB CLP (dermal)	9510 mg/kg bodyweight
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
LD50 oral	3739 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 26315 mg/l
ATE GB CLP (oral)	3739 mg/kg bodyweight
Tris(2-butoxyethyl) phosphate (78-51-3)	
LD50 oral rat	3000 mg/kg Source: Corporate Solution From Thomson Micromedex
LD50 oral	3000 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
LC50 Inhalation - Rat	> 6.4 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
ATE GB CLP (oral)	3000 mg/kg bodyweight
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
LD50 oral rat	≤
LD50 oral	1414 mg/kg bodyweight Animal: guinea pig, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1020 - 1961
LC50 Inhalation - Rat (Dust/Mist)	2200 mg/l
ATE GB CLP (oral)	1414 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
triisobutyl phosphate (126-71-6)	
LD50 oral	> 5000 mg/kg bodyweight
LD50 dermal	> 5000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 5140 mg/l

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Ammonia% (1336-21-6)	
LD50 oral	350 mg/kg bodyweight
ATE GB CLP (oral)	350 mg/kg bodyweight
Tetraamminezinc(2+) carbonate (38714-47-5)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity), Guideline: other:
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
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
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg Source: ECHA
LD50 oral	4396 mg/kg bodyweight
LD50 dermal rabbit	12800 mg/kg Source: ECHA
LC50 Inhalation - Rat (Dust/Mist)	46600 mg/l
ATE GB CLP (oral)	4396 mg/kg bodyweight
ATE GB CLP (dermal)	12800 mg/kg bodyweight
ATE GB CLP (dust, mist)	46600 mg/l/4h
2-methylisothiazol-3(2H)-one (2682-20-4)	
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
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene (13466-78-9)	
LD50 oral rat	4800 mg/kg
ATE GB CLP (oral)	4800 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

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2-methylundecanal (110-41-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	> 10000 mg/kg Source: ChemIDPlus
3,7-dimethyl-2,6-octadien-1-yl-acetate (105-87-3)	
LD50 oral rat	6330 mg/kg bodyweight Animal: rat, 95% CL: 5450 - 7340
ATE GB CLP (oral)	6330 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
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
linalyl acetate (115-95-7)	
LD50 oral rat	> 9000 mg/kg bodyweight Animal: rat, Remarks on results: other:
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
LD50 oral rat	> 11390 mg/kg bodyweight Animal: rat
LD50 oral	> 3380 mg/kg bodyweight Animal: mouse
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Octanal (124-13-0)	
LD50 oral rat	4617 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:
LD50 dermal rabbit	5207 mg/kg bodyweight Animal: rabbit, Animal sex: male
LC50 Inhalation - Rat	> 0.83 mg/l air Animal: rat, Animal sex: male, Remarks on results: other:
ATE GB CLP (oral)	4617 mg/kg bodyweight
ATE GB CLP (dermal)	5207 mg/kg bodyweight
Citronellyl acetate (150-84-5)	
LD50 oral rat	6800 mg/kg bodyweight Animal: rat, Remarks on results: other:
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
ATE GB CLP (oral)	6800 mg/kg bodyweight
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (16409-43-1)	
LD50 oral rat	> 2000 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:

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Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (16409-43-1)	
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
$\alpha,\alpha,4$-trimethylcyclohexanemethanol (498-81-7)	
LD50 oral rat	> 5000 mg/kg Source: NLM;chemIDplus, TOMES;LOLI;
LD50 dermal rabbit	> 5000 mg/kg Source: NLM;chemIDplus, TOMES;LOLI;
citral (5392-40-5)	
LD50 oral rat	\approx 6800 mg/kg bodyweight Animal: rat
LD50 oral	4960 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Remarks on results: other:
LD50 dermal rabbit	2250 mg/kg
LD50 dermal	2250 mg/kg bodyweight
ATE GB CLP (oral)	4960 mg/kg bodyweight
ATE GB CLP (dermal)	2250 mg/kg bodyweight
p-Mentha-1,4(8)-diene (586-62-9)	
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 rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 4300 mg/kg Source: ECHA
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 oral	4400 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg Source: National Library of Medicine
LD50 dermal	> 2000 mg/kg bodyweight
ATE GB CLP (oral)	4400 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
Camphene (79-92-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
Terpineol (8000-41-7)	
LD50 oral	> 2000 mg/kg bodyweight

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Terpineol (8000-41-7)	
LD50 dermal rabbit	> 3000 mg/kg
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 4760 mg/l
Pin-2(3)-ene (80-56-8)	
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
p-Mentha-1,4-diene (99-85-4)	
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 rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
1-isopropyl-4-methylbenzene; p-cymene (99-87-6)	
LD50 oral rat	3669 mg/kg Source: Corporate Solution From Thomson Micromedex
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: other:
ATE GB CLP (oral)	3669 mg/kg bodyweight
ATE GB CLP (gases)	700 ppmv/4h
ATE GB CLP (vapours)	3 mg/l/4h
ATE GB CLP (dust, mist)	0.5 mg/l/4h
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol (464-45-9)	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
Skin corrosion/irritation	: Not classified (Conclusive but not sufficient for classification) pH: 8.8
Water (7732-18-5)	
pH	7
Tris(2-butoxyethyl) phosphate (78-51-3)	
pH	7 Source: National Institute of Technology and Evaluation
Tetraamminezinc(2+) carbonate (38714-47-5)	
pH	9.9 Temp.: 20 °C Concentration: (≈)16,8 other:
2-methylisothiazol-3(2H)-one (2682-20-4)	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L
Serious eye damage/irritation	: Causes serious eye irritation. pH: 8.8
Water (7732-18-5)	
pH	7

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Tris(2-butoxyethyl) phosphate (78-51-3)	
pH	7 Source: National Institute of Technology and Evaluation
Tetraamminezinc(2+) carbonate (38714-47-5)	
pH	9.9 Temp.: 20 °C Concentration: (≈)16,8 other:
2-methylisothiazol-3(2H)-one (2682-20-4)	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L
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)
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
IARC group	3 - Not classifiable
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
IARC group	2B - Possibly carcinogenic to humans
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:
citral (5392-40-5)	
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)
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
NOAEL (animal/female, F1)	56.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
Octanal (124-13-0)	
NOAEL (animal/female, F1)	300 mg/kg bodyweight Animal: rat, Animal sex: female
p-Mentha-1,4-diene (99-85-4)	
NOAEL (animal/male, F1)	250 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (animal/female, F1)	100 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-single exposure	: Not classified (Conclusive but not sufficient for classification)
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.
2-methoxypropanol (1589-47-5)	
STOT-single exposure	May cause respiratory irritation.
Ammonia% (1336-21-6)	
STOT-single exposure	Not classified (Conclusive but not sufficient for classification)
Tetraamminezinc(2+) carbonate (38714-47-5)	
STOT-single exposure	Not classified (Conclusive but not sufficient for classification)

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Conclusive but not sufficient for classification)
Isotridecanol, ethoxylated (69011-36-5)	
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
(2-methoxymethylethoxy)propanol (34590-94-8)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: other:
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
LOAEL (oral, rat, 90 days)	2757 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	919 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
2-methylisothiazol-3(2H)-one (2682-20-4)	
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:
3,7-dimethyl-2,6-octadien-1-yl-acetate (105-87-3)	
NOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: other:
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)
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:
linalyl acetate (115-95-7)	
NOAEL (dermal, rat/rabbit, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
LOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic, oral, animal/male, 90 days)	500 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	250 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
cineole (470-82-6)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3150 (90-Day Oral Toxicity in Non-rodents)
citral (5392-40-5)	
LOAEC (inhalation, rat, gas, 90 days)	68 ppm Animal: rat, Animal sex: female

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citral (5392-40-5)	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEC (inhalation, rat, gas, 90 days)	34 ppm Animal: rat, Animal sex: female
NOAEL (subchronic, oral, animal/male, 90 days)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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)

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Viscosity, kinematic	1.848 mm ² /s

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Viscosity, kinematic	2.658 mm ² /s

Citronellol (106-22-9)	
Viscosity, kinematic	12.984 mm ² /s

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Viscosity, kinematic	5191.86 mm ² /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)

Isotridecanol, ethoxylated (69011-36-5)	
LC50 - Fish [1]	> 1 mg/l
EC50 - Crustacea [1]	1.5 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 1 mg/l waterflea
EC50 96h - Algae [1]	11.5 mg/l Source: EPISUITE v4.1

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(2-methoxymethylethoxy)propanol (34590-94-8)	
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Poecilia reticulata
EC50 - Other aquatic organisms [1]	1930 mg/l Test organisms (species): other aquatic crustacea:
EC50 72h - Algae [1]	> 969 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 969 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
NOEC (chronic)	≥ 0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
LC50 - Fish [1]	> 4600 mg/l
EC50 - Other aquatic organisms [1]	2954 mg/l Test organisms (species): other aquatic crustacea:
EC50 - Other aquatic organisms [2]	> 500 mg/l
Tris(2-butoxyethyl) phosphate (78-51-3)	
LC50 - Fish [1]	24 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	53 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	75 mg/l waterflea
EC50 72h - Algae [1]	33 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	61 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC chronic algae	7.6 mg/l
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
LC50 - Fish [1]	1474 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	≈ 1800 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	1550 mg/l waterflea
EC50 - Other aquatic organisms [2]	911 mg/l
EC50 72h - Algae [1]	911 mg/l Source: ECHA
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
triisobutyl phosphate (126-71-6)	
EC50 - Other aquatic organisms [1]	11 mg/l waterflea
EC50 - Other aquatic organisms [2]	34.1 mg/l
Ammonia% (1336-21-6)	
LC50 - Fish [1]	0.89 mg/l
LC50 - Other aquatic organisms [1]	2700 mg/l Chlorella pyrenoidosa
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
LC50 - Fish [1]	16.7 mg/l Test organisms (species): Cyprinodon variegatus

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1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
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
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas
2-methylisothiazol-3(2H)-one (2682-20-4)	
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
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene (13466-78-9)	
LC50 - Fish [1]	0.53 mg/l Source: ECOSAR
EC50 96h - Algae [1]	0.648 mg/l Source: ECOSAR
2-methylundecanal (110-41-8)	
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
3,7-dimethyl-2,6-octadien-1-yl-acetate (105-87-3)	
LC50 - Fish [1]	68.12 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	14.1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	3.72 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	0.122 mg/l Source: ECOSAR
Citronellol (106-22-9)	
LC50 - Fish [1]	14.66 mg/l Test organisms (species): Leuciscus idus
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
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
EC50 - Other aquatic organisms [1]	10.8 mg/l waterflea

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geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
EC50 72h - Algae [1]	13.1 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
EC50 - Crustacea [1]	1.47 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	0.342 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 72h - Algae [2]	0.31 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
Octanal (124-13-0)	
EC50 - Crustacea [1]	1.54 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 96h - Algae [1]	12.991 mg/l Source: ECOSAR
Citronellyl acetate (150-84-5)	
LC50 - Fish [1]	6.1 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)
EC50 - Crustacea [1]	3.48 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 - Crustacea [2]	4.97 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	> 7.2 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (16409-43-1)	
LC50 - Fish [1]	77.6 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)
EC50 - Crustacea [1]	33.2 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	36 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 72h - Algae [2]	79.7 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
L-beta-pinene (18172-67-3)	
LC50 - Fish [1]	0.557 mg/l Test organisms (species): <i>Cyprinus carpio</i>
LC50 - Fish [2]	502 µg/l Test organisms (species): <i>Pimephales promelas</i>
EC50 - Crustacea [1]	1248 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 96h - Algae [1]	0.563 mg/l Source: ECOSAR
2,6-dimethyl-7-octen-2-ol (18479-58-8)	
LC50 - Fish [1]	27.8 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
EC50 - Crustacea [1]	38 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	80 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
EC50 72h - Algae [2]	65 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
NOEC (chronic)	9.5 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
cineole (470-82-6)	
LC50 - Fish [1]	57 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)

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cineole (470-82-6)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
$\alpha,\alpha,4$-trimethylcyclohexanemethanol (498-81-7)	
LC50 - Fish [1]	6.821 mg/l Source: EPISUITE
EC50 - Crustacea [1]	4.743 mg/l Source: EPISUITE
EC50 96h - Algae [1]	4.166 mg/l Source: EPISUITE
citral (5392-40-5)	
LC50 - Fish [1]	6.78 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	6.8 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	7 mg/l waterflea
EC50 - Other aquatic organisms [2]	5 mg/l
EC50 72h - Algae [1]	103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
p-Mentha-1,4(8)-diene (586-62-9)	
LC50 - Fish [1]	0.805 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0.634 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	11.69 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LC50 - Fish [1]	720 μ g/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	0.307 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	0.51 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.32 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.214 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
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)
Camphene (79-92-5)	
LC50 - Fish [1]	0.72 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

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Camphene (79-92-5)	
EC50 - Crustacea [1]	0.72 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1.75 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	214 mg/l Source: ECOTOX
Terpineol (8000-41-7)	
LC50 - Fish [1]	62 mg/l
EC50 - Other aquatic organisms [1]	73 mg/l waterflea
EC50 - Other aquatic organisms [2]	68 mg/l
EC50 96h - Algae [1]	5.069 mg/l Source: ECOSAR
Pin-2(3)-ene (80-56-8)	
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
p-Mentha-1,4-diene (99-85-4)	
LC50 - Fish [1]	0.263 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	10189 mg/l Test organisms (species): Daphnia magna
1-isopropyl-4-methylbenzene; p-cymene (99-87-6)	
LC50 - Fish [1]	48 mg/l Test organisms (species): Cyprinodon variegatus
EC50 - Crustacea [1]	3.7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4.03 mg/l Test organisms (species): Scenedesmus capricornutum
EC50 72h - Algae [2]	2.01 mg/l Test organisms (species): Scenedesmus capricornutum
EC50 96h - Algae [1]	22 mg/l Source: The ECOTOXicology database
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol (464-45-9)	
LC50 - Fish [1]	67.8 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	59 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	14.85 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	11.69 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	13.795 mg/l Source: EPISUITE

12.2. Persistence and degradability

HG terra cotta cleaner shine restorer	
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

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Isotridecanol, ethoxylated (69011-36-5)	
Persistence and degradability	Rapidly degradable
(2-methoxymethylethoxy)propanol (34590-94-8)	
Persistence and degradability	Rapidly degradable
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Persistence and degradability	Rapidly degradable
2-methoxypropanol (1589-47-5)	
Persistence and degradability	Rapidly degradable
Tris(2-butoxyethyl) phosphate (78-51-3)	
Persistence and degradability	Rapidly degradable
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
Persistence and degradability	Rapidly degradable
Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-56-9)	
Persistence and degradability	Rapidly degradable
triisobutyl phosphate (126-71-6)	
Persistence and degradability	Rapidly degradable
Rosin, fumarated, polymer with glycerol, ammonium salt (68554-18-7)	
Persistence and degradability	Rapidly degradable
Ammonia% (1336-21-6)	
Persistence and degradability	Rapidly degradable
Tetraamminezinc(2+) carbonate (38714-47-5)	
Persistence and degradability	Rapidly degradable
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
Persistence and degradability	Rapidly degradable
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Persistence and degradability	Rapidly degradable
Poly(oxy-1 ; 2-ethanedilyl), α-methyl-∞-[(4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9-tridecafluoro-2-hydroxynonyl) oxy]- (1227060-33-4)	
Persistence and degradability	Rapidly degradable
2-methylisothiazol-3(2H)-one (2682-20-4)	
Persistence and degradability	Rapidly degradable
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene (13466-78-9)	
Persistence and degradability	Rapidly degradable
2-methylundecanal (110-41-8)	
Persistence and degradability	Rapidly degradable

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3,7-dimethyl-2,6-octadien-1-yl-acetate (105-87-3)	
Persistence and degradability	Rapidly degradable
Citronellol (106-22-9)	
Persistence and degradability	Rapidly degradable
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
Persistence and degradability	Rapidly degradable
linalyl acetate (115-95-7)	
Persistence and degradability	Rapidly degradable
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
Persistence and degradability	Rapidly degradable
Octanal (124-13-0)	
Persistence and degradability	Rapidly degradable
Citronellyl acetate (150-84-5)	
Persistence and degradability	Rapidly degradable
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (16409-43-1)	
Persistence and degradability	Rapidly degradable
L-beta-pinene (18172-67-3)	
Persistence and degradability	Rapidly degradable
2,6-dimethyl-7-octen-2-ol (18479-58-8)	
Persistence and degradability	Rapidly degradable
(E)-3,7-dimethylocta-1,3,6-triene (3779-61-1)	
Persistence and degradability	Rapidly degradable
[3R-(3α,3$\alpha$$\beta$,7$\beta$,8$\alpha$)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (469-61-4)	
Persistence and degradability	Rapidly degradable
cineole (470-82-6)	
Persistence and degradability	Rapidly degradable
α,α-trimethylcyclohexanemethanol (498-81-7)	
Persistence and degradability	Rapidly degradable
citral (5392-40-5)	
Persistence and degradability	Rapidly degradable
p-Mentha-1,4(8)-diene (586-62-9)	
Persistence and degradability	Rapidly degradable
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Persistence and degradability	Rapidly degradable
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Persistence and degradability	Rapidly degradable

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Camphene (79-92-5)	
Persistence and degradability	Rapidly degradable
Terpineol (8000-41-7)	
Persistence and degradability	Rapidly degradable
Pin-2(3)-ene (80-56-8)	
Persistence and degradability	Rapidly degradable
p-Mentha-1,4-diene (99-85-4)	
Persistence and degradability	Rapidly degradable
1-isopropyl-4-methylbenzene; p-cymene (99-87-6)	
Persistence and degradability	Rapidly degradable
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol (464-45-9)	
Persistence and degradability	Rapidly degradable
12.3. Bioaccumulative potential	
Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.49
Tris(2-butoxyethyl) phosphate (78-51-3)	
Partition coefficient n-octanol/water (Log Pow)	4.56
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
Partition coefficient n-octanol/water (Log Pow)	0.8
triisobutyl phosphate (126-71-6)	
Partition coefficient n-octanol/water (Log Pow)	3.7
Ammonia% (1336-21-6)	
Partition coefficient n-octanol/water (Log Pow)	-0.64
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
Partition coefficient n-octanol/water (Log Pow)	0.7
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0.05
2-methylisothiazol-3(2H)-one (2682-20-4)	
Partition coefficient n-octanol/water (Log Pow)	-0.49
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene (13466-78-9)	
Partition coefficient n-octanol/water (Log Pow)	4.38 Source: NLM;ChemIDplus
2-methylundecanal (110-41-8)	
Partition coefficient n-octanol/water (Log Pow)	4.67 Source: NLM;ChemIDPlus

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Citronellol (106-22-9)	
Partition coefficient n-octanol/water (Log Pow)	3.1
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	3.5
linalyl acetate (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.93 Source: NLM;ChemIDPlus
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
Partition coefficient n-octanol/water (Log Pow)	4.17
Octanal (124-13-0)	
Partition coefficient n-octanol/water (Log Pow)	2.78
Citronellyl acetate (150-84-5)	
Partition coefficient n-octanol/water (Log Pow)	4.56 Source: Epi Suite
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (16409-43-1)	
Partition coefficient n-octanol/water (Log Pow)	3.58 Source: EPISUITE
L-beta-pinene (18172-67-3)	
Partition coefficient n-octanol/water (Log Pow)	4.35
cineole (470-82-6)	
Partition coefficient n-octanol/water (Log Pow)	2.74
α,α-4-trimethylcyclohexanemethanol (498-81-7)	
Partition coefficient n-octanol/water (Log Pow)	3.42 Source: EPISUITE
citral (5392-40-5)	
Partition coefficient n-octanol/water (Log Pow)	2.8
p-Mentha-1,4(8)-diene (586-62-9)	
Partition coefficient n-octanol/water (Log Pow)	4.47 Source: National Library of Medicine/Hazardous Substances Data Bank
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4.38
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84
Camphene (79-92-5)	
Partition coefficient n-octanol/water (Log Pow)	4.1 Source: ICSC
Terpineol (8000-41-7)	
Partition coefficient n-octanol/water (Log Pow)	3
Pin-2(3)-ene (80-56-8)	
Partition coefficient n-octanol/water (Log Pow)	4.32
p-Mentha-1,4-diene (99-85-4)	
Partition coefficient n-octanol/water (Log Pow)	4.5 Source: NLM

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1-isopropyl-4-methylbenzene; p-cymene (99-87-6)	
Partition coefficient n-octanol/water (Log Pow)	4.1 Source: International Chemical Safety Cards
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol (464-45-9)	
Partition coefficient n-octanol/water (Log Pow)	3.01 Source: CHEMIDPLUS
12.4. Mobility in soil	
Isotridecanol, ethoxylated (69011-36-5)	
Mobility in soil	111.3 Source: EPISUITE v4.1
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene (13466-78-9)	
Mobility in soil	6324 Source: EPISUITE
2-methylundecanal (110-41-8)	
Mobility in soil	192.1 Source: EPISUITE
Citronellol (106-22-9)	
Mobility in soil	70.79 Source: Quantitative Structure Activity Relation
linalyl acetate (115-95-7)	
Mobility in soil	432.4 Source: EPISUITE
Citronellyl acetate (150-84-5)	
Mobility in soil	2409 Source: EPI SUITE
cineole (470-82-6)	
Mobility in soil	223.9 Source: EPISUITE
$\alpha,\alpha,4$-trimethylcyclohexanemethanol (498-81-7)	
Mobility in soil	254.3 Source: EPISUITE
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Mobility in soil	76 Source: HSDB
Pin-2(3)-ene (80-56-8)	
Mobility in soil	2600 Source: HSDB
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol (464-45-9)	
Mobility in soil	100.4 Source: EPISUITE

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

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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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official 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. Do not flush down sewers.
Product/Packaging disposal recommendations	: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Do not pierce or burn, even after use.
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

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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.

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 %:

TERPINOLENE

LIMONENE

LINALOOL

TERPINEOL

PINENE

Labelling of contents	
Component	%
non-ionic surfactants, phosphates	<5%
BENZISOTHIAZOLINONE	
METHYLISOTHIAZOLINONE	
perfumes	
GERANYL ACETATE	
LINALYL ACETATE	
TERPINOLENE	
LIMONENE	
LINALOOL	
TERPINEOL	
PINENE	

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)

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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.

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
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

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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.

Abbreviations and acronyms:

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 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
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 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
EUH208	Contains triisobutyl phosphate (126-71-6) (00086), Rosin, fumarated, polymer with glycerol, ammonium salt (68554-18-7) (00305), 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5) (00178), 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
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H331	Toxic if inhaled.

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Full text of H- and EUH-statements:	
H336	May cause drowsiness or dizziness.
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.
H413	May cause long lasting harmful effects to aquatic life.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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.