

Floor Cleaner

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 5/19/2022 Revision date: 5/19/2022 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : NARWAL Freo Original Zubehör Reiniger für Wischtücher

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Clean floors and mops.

1.2.2. Uses advised against

Restrictions on use : No information available.

1.3. Details of the supplier of the safety data sheet

Supplier:

Yunjing Intelligence Innovation (Shenzhen) Co., LTD
Room A2901, Yunzhongcheng, Building 1, Vanke Yuncheng VI, Dashi 2nd Road, Xili Community, Xili Street, Nanshan District, Shenzhen,
Guangdong, China 523000
T: +86 755-26928520
Honglei.yan@narwal.com

Importer:

Narwal Trading (Hong Kong) Co., Limited
94 Granville Rd, Room 1209, Inter-continental Plaza, Tsi m Sha Tsui East, Kowloon, 999077 HK
T: +86 19147917273
oversea.jp@narwal.com

1.4. Emergency telephone number

Emergency number : +86-400-080-0630

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

Hazard pictograms (CLP) : None
Signal word (CLP) : None
Hazard statements (CLP) : Not applicable.
Precautionary statements (CLP) : Not applicable.
EUH-statements : Contains 1,2-Ethanediamine, polymer with methyloxirane and oxirane. May produce an allergic reaction.

2.3. Other hazards

Other hazards which do not result in classification : No information available.

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

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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 is not 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 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	92.21985- 92.22985-	Not classified
Alcohols, C12-14, ethoxylated	CAS-No.: 68439-50-9 EC-No.: 500-213-3	2.40	Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	CAS-No.: 69011-36-5 EC-No.: 500-241-6	1.50	Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Oxirane, methyl-, polymer with oxirane, mono(2-ethylhexyl) ether	CAS-No.: 64366-70-7 EC-No.: 613-582-1	1.10	Not classified
Amines, tallow alkyl, ethoxylated	CAS-No.: 61791-26-2 EC-No.: 500-153-8	1.0	Not classified
1,2-Ethanediamine, polymer with methyloxirane and oxirane	CAS-No.: 26316-40-5 EC-No.: 500-047-1		Eye Irrit. 2, H319 Skin Sens. 1B, H317
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-[2-(diethylmethylammonio)ethyl]-.omega.-hydroxy-, chloride	CAS-No.: 68132-96-7	0.80	Not classified
2-Phenoxyethanol	CAS-No.: 122-99-6 EC-No.: 204-589-7 EC Index-No.: 603-098-00-9	0.6005	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 STOT SE 3, H335
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2	0.25	Skin Sens. 1B, H317
Citral	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829-23		Skin Irrit. 2, H315 Skin Sens. 1, H317
Orange, sweet, extract	CAS-No.: 8028-48-6 EC-No.: 232-433-8		Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
3-Cyclohexene-1-methanol, .alpha.,.alpha.,4-trimethyl-, (S)-	CAS-No.: 10482-56-1 EC-No.: 233-986-8		Skin Irrit. 2, H315 Eye Dam. 1, H318
Geraniol	CAS-No.: 106-24-1 EC-No.: 203-377-1 EC Index-No.: 603-241-00-5		Skin Sens. 1, H317
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	CAS-No.: 68039-49-6 EC-No.: 268-264-1		Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	CAS-No.: 128-37-0 EC-No.: 204-881-4		Aquatic Chronic 1, H410
7-Octen-2-ol, 2,6-dimethyl-	CAS-No.: 18479-58-8 EC-No.: 242-362-4		Skin Irrit. 2, H315 Eye Irrit. 2, H319
Poly(dimethylsiloxane)	CAS-No.: 63148-62-9 EC-No.: 613-156-5	0.01-0.02	Not classified
Alcohols, C12-15, propoxylated	CAS-No.: 74499-34-6	0.005-0.015	Not classified
Citric acid	CAS-No.: 77-92-9 EC-No.: 201-069-1 EC Index-No.: 607-750-00-3	0.05	Eye Irrit. 2, H319 STOT SE 3, H335
Trisodium citrate dihydrate	CAS-No.: 6132-04-3 EC-No.: 200-675-3;612-118-5	0.05	Not classified
C.I. Acid Yellow 23	CAS-No.: 1934-21-0 EC-No.: 217-699-5	0.00015	Not classified

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	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: No information available.
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: No additional information available.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released, such as: carbon oxides, nitrogen oxides, chlorides.

5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate personnel to a safe area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure adequate ventilation, especially in confined areas.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Do not eat, drink or smoke during use. Wash thoroughly after handling.

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 : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.2. Environmental precautions

Avoid release to the environment. Do not allow into drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Absorb remaining liquid with sand or inert absorbent and remove to safe place.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Evacuate unnecessary personnel. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure adequate ventilation, especially in confined areas. Wear personal protective equipment.
Hygiene measures : Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : No information available.
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep only in original container.
Incompatible materials : No information available.
Storage temperature : No information available.
Packaging materials : No information available.

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

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2-Phenoxyethanol (122-99-6)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	110 mg/m ³
MAK (OEL TWA) [ppm]	20 ppm
MAK (OEL STEL)	110 mg/m ³
MAK (OEL STEL) [ppm]	20 ppm
OEL C	110 mg/m ³
OEL C [ppm]	20 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	110 mg/m ³
HTP (OEL TWA) [2]	20 ppm
HTP (OEL STEL)	290 mg/m ³
HTP (OEL STEL) [ppm]	50 ppm
OEL chemical category	Potential for cutaneous absorption
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	5.7 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	230 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA	5.7 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	5.7 mg/m ³
OEL STEL [ppm]	1 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	110 mg/m ³ (aerosol, vapour)
MAK (OEL TWA) [2]	20 ppm (aerosol, vapour)
KZGW (OEL STEL)	110 mg/m ³ (aerosol, vapour)
KZGW (OEL STEL) [ppm]	20 ppm (aerosol, vapour)
Citral (5392-40-5)	
Belgium - Occupational Exposure Limits	
OEL TWA	32 mg/m ³ (vapor and aerosol)
OEL TWA [ppm]	5 ppm (vapor and aerosol)
OEL chemical category	Skin
Ireland - Occupational Exposure Limits	
OEL TWA [2]	5 ppm
OEL STEL [ppm]	15 ppm (calculated)
Poland - Occupational Exposure Limits	

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Citral (5392-40-5)	
NDS (OEL TWA)	27 mg/m ³
NDSch (OEL STEL)	54 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA [ppm]	5 ppm
OEL chemical category	Sensitizer, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [2]	5 ppm (inhalable fraction and vapor)
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	5 ppm (inhalable fraction and vapor)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	10 mg/m ³
Belgium - Occupational Exposure Limits	
OEL TWA	2 mg/m ³ (aerosol and vapor)
Bulgaria - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
OEL STEL	50 mg/m ³
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	10 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA [1]	10 mg/m ³
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	10 mg/m ³
HTP (OEL STEL)	20 mg/m ³
France - Occupational Exposure Limits	
VME (OEL TWA)	10 mg/m ³
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	10 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Greece - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	2 mg/m ³
OEL STEL	6 mg/m ³ (calculated)
Portugal - Occupational Exposure Limits	
OEL TWA	2 mg/m ³ (inhalable fraction, aerosol and vapor)

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Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
Slovenia - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (inhalable fraction)
OEL STEL	40 mg/m ³ (inhalable fraction)
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	10 mg/m ³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	10 mg/m ³
WEL STEL (OEL STEL)	30 mg/m ³ (calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	10 mg/m ³ (no elevated carcinogenic risk by keeping the MAK-value-aerosol, inhalable dust, vapour)
KZGW (OEL STEL)	40 mg/m ³ (aerosol, inhalable dust, vapour)
OEL chemical category	Category C1B carcinogen carcinogenic with threshold value
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ (inhalable fraction and vapor)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Poly(dimethylsiloxane) (63148-62-9)	
Romania - Occupational Exposure Limits	
OEL TWA	200 mg/m ³ (oil)
OEL STEL	300 mg/m ³ (oil)
OEL chemical category	Skin notation oil
Citric acid (77-92-9)	
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	4 mg/m ³ (dust)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	2 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	2 mg/m ³ (inhalable dust)
KZGW (OEL STEL)	4 mg/m ³ (inhalable dust)

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

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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 symbol(s):

No additional information available.

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses.

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing.

Hand protection:

Protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

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
Appearance	: Liquid
Colour	: Yellowish
Odour	: Lemon scent
Odour threshold	: Not available
Relative evaporation rate (butylacetate=1)	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 99.7 °C
Flammability	: Non flammable
Explosive properties	: Not explosive
Oxidising properties	: Non oxidizing
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 6 - 8
pH solution	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: Not available
Solubility	: Not available

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Partition coefficient n-octanol/water (Log Kow)	: 2-Phenoxyethanol (122-99-6): 1.13 (25 °C) Linalool (78-70-6): 2.84 - 3.1 (25 °C) Citral (5392-40-5): 2.76 (25 °C) Orange, sweet, extract (8028-48-6): 2.78 - 4.88 (QSAR) Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0): 4.17 Citric acid (77-92-9): -1.72 (20 °C)
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.04 g/cm ³ (10 °C); 1.033 g/cm ³ (20 °C)
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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 information available

10.6. Hazardous decomposition products

Nitrogen oxides, chlorides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Water (7732-18-5)

LD50 oral rat	> 90 mL/kg
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Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched (69011-36-5)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	5960 mg/kg
LC50 Inhalation - Rat	> 1.6 mg/L/4 h

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Amines, tallow alkyl, ethoxylated (61791-26-2)	
LD50 oral rat	500 mg/kg
1,2-Ethanediamine, polymer with methyloxirane and oxirane (26316-40-5)	
LD50 dermal rabbit	> 5000 mg/kg
2-Phenoxyethanol (122-99-6)	
LD50 oral rat	1850 mg/kg
LD50 dermal rabbit	5 mL/kg
LC50 Inhalation - Rat	> 0.057 mg/L/8 h
Linalool (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 dermal rabbit	5610 mg/kg
Citral (5392-40-5)	
LD50 oral rat	4960 mg/kg
LD50 dermal rabbit	2250 mg/kg
Orange, sweet, extract (8028-48-6)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
3-Cyclohexene-1-methanol, .alpha.,.alpha.,4-trimethyl-, (S)- (10482-56-1)	
LD50 oral rat	5170 mg/kg
LD50 dermal rat	> 2000 mg/kg
Geraniol (106-24-1)	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	> 5 g/kg
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
LD50 oral rat	> 2930 mg/kg
LD50 dermal rat	> 2000 mg/kg
7-Octen-2-ol, 2,6-dimethyl- (18479-58-8)	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	> 5 g/kg
Poly(dimethylsiloxane) (63148-62-9)	
LD50 oral rat	> 24 g/kg
LD50 dermal rat	> 2000 mg/kg
Citric acid (77-92-9)	
LD50 oral rat	3 g/kg
LD50 dermal rat	> 2000 mg/kg
C.I. Acid Yellow 23 (1934-21-0)	
LD50 oral rat	> 2000 mg/kg

Skin corrosion/irritation : Not classified

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Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)

IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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 is not 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 %
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11.2.2. Other information

Potential adverse human health effects and symptoms	: No additional information available.
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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
Hazardous to the aquatic environment, long—term (chronic)	: Not classified

2-Phenoxyethanol (122-99-6)

LC50 - Fish [1]	337 - 352 mg/L/96 h (Pimephales promelas)
LC50 - Fish [2]	366 mg/L/96 h (Pimephales promelas)
EC50 - Crustacea [1]	> 500 mg/L/48 h (Daphnia magna)
EC50 - Algae [1]	> 500 mg/L/72 h (Desmodesmus subspicatus)

Linalool (78-70-6)

LC50 - Fish [1]	27.8 mg/L/96 h (Oncorhynchus mykiss)
EC50 - Crustacea [1]	20 mg/L/48 h (Daphnia magna)
EC50 - Algae [1]	88.3 mg/L/96 h (Desmodesmus subspicatus)

Citral (5392-40-5)

LC50 - Fish [1]	6.78 mg/L
EC50 - Crustacea [1]	7 mg/L/48 h (Daphnia magna)
EC50 - Algae [1]	16 mg/L/72 h (Desmodesmus subspicatus)
EC50 - Algae [2]	103.84 mg/L/72 h
EC50 - Algae [3]	19 mg/L/96 h (Desmodesmus subspicatus)

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Orange, sweet, extract (8028-48-6)	
LC50 - Fish [1]	5.65 mg/L/96 h (Danio rerio)
EC50 - Crustacea [1]	1.1 mg/L/48 h (Daphnia magna)
ErC50 algae	150 mg/L/72 h (Desmodesmus subspicatus)
Geraniol (106-24-1)	
LC50 - Fish [1]	22 mg/L/96 h (Danio rerio)
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
LC50 - Fish [1]	> 0.57 mg/L (Danio rerio)
EC50 - Crustacea [1]	0.48 mg/L (Daphnia magna)
EC50 - Algae [1]	6 mg/L/72 h (Pseudokirchneriella subcapitata)
EC50 - Algae [2]	> 0.42 mg/L/72 h (Desmodesmus subspicatus)
Citric acid (77-92-9)	
LC50 - Fish [1]	1516 mg/L/96 h (Lepomis macrochirus)
12.2. Persistence and degradability	
Citral (5392-40-5)	
Persistence and degradability	Readily biodegradable.
Orange, sweet, extract (8028-48-6)	
Persistence and degradability	Readily biodegradable.
Citric acid (77-92-9)	
Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	
2-Phenoxyethanol (122-99-6)	
Partition coefficient n-octanol/water (Log Pow)	1.13 (25 °C)
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84 - 3.1 (25 °C)
Citral (5392-40-5)	
Partition coefficient n-octanol/water (Log Pow)	2.76 (25 °C)
Orange, sweet, extract (8028-48-6)	
Partition coefficient n-octanol/water (Log Pow)	2.78 - 4.88 (QSAR)
BCF - Fish [1]	32 - 156
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
Partition coefficient n-octanol/water (Log Pow)	4.17
BCF - Fish [1]	230 - 2500
Citric acid (77-92-9)	
Bioaccumulative potential	Low bioaccumulation potential.
Partition coefficient n-octanol/water (Log Pow)	-1.72 (20 °C)

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According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.4. Mobility in soil

Citral (5392-40-5)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	147.7
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12.5. Results of PBT and vPvB assessment

Floor Cleaner

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

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 is not 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

Other adverse effects : No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Contaminated packaging : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
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

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According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 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. National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Orange, sweet, extract,3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl- are listed

SZW-lijst van mutagene stoffen : Orange, sweet, extract,3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl- are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Switzerland

Storage class (LK) : LK 10/12 - Liquids

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	Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

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Abbreviations and acronyms:	
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
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Data sources : ECHA, Loli.
Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information : No information available.

Full text of H- and EUH-statements:	
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.

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According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H304	May be fatal if swallowed and enters airways.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

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.