

Good Sense Magnolia & Mimosa O1b

Revision: 2015-01-09

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

1.1 Product identifier

Trade name: Good Sense Magnolia & Mimosa O1b

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

Identified uses:

AISE-C17 - Air fresheners aerosol

Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: MSDSinfoUK@sealedair.com

1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Aerosol 1 (H222)

Skin Sens. 1 (H317)

Aquatic Chronic 2 (H411)

Classification in accordance with Directive 1999/45/EC and corresponding national legislation

Indication of danger

Xi - Irritant

F+ - Extremely flammable

Risk phrases:

R12 - Extremely flammable.

R43 - May cause sensitisation by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements



Signal word: Danger

Contains alpha-hexylcinnamaldehyde (Hexyl Cinnamal), citronellol (Citronello).

Hazard statements:

H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H317 - May cause an allergic skin reaction.

H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.
 P102 - Keep out of reach of children.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 - Do not spray on an open flame or other ignition source.
 P251 - Do not pierce or burn, even after use.
 P280 - Wear protective gloves.
 P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
 P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
dimethyl ether	204-065-8	115-10-6	No data available	Flam. Gas 1 (H220) Liquified gas (H280)	F+;R12		30-50
ethanol	200-578-6	64-17-5	No data available	Flam. Liq. 2 (H225)	F;R11		10-20
diethyl phthalate	201-550-6	84-66-2	No data available		Xn;R20		3-10
tricyclodecanedimethanol	248-096-5	26896-48-0	No data available	Eye Irrit. 2 (H319)	Xi;R36		1-3
2-phenylethanol	200-456-2	60-12-8	No data available	Acute Tox. 3 (H311) Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	Xi;R36		1-3
ionone, methyl-	215-635-0	1335-46-2	No data available	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	Xi;R36/38 N;R51/53		1-3
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	214-946-9	1222-05-5	No data available	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	N;R50/53		1-3
alpha-hexylcinnamaldehyde	202-983-3	101-86-0	No data available	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)	Xi;R38-43		1-3
citronellol	203-375-0	106-22-9	No data available	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Xi;R38-43 N;R51/53		0.1-1
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	204-846-3	127-51-5	No data available	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)	Xi;R36/38-43 N;R51/53		0.1-1
benzyl benzoate	204-402-9	120-51-4	No data available	Acute Tox. 4 (H302) Aquatic Chronic 2 (H411)	Xn;R22 N;R51/53		0.1-1
allyl hexanoate	204-642-4	123-68-2	No data available	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411)	Xn;R21/22 Xi;R38 N;R51/53		0.1-1
eugenol	202-589-1	97-53-0	No data available	Eye Irrit. 2 (H319) Skin Sens. 1B (H317)	Xi;R36-43		0.1-1
benzyl salicylate	204-262-9	118-58-1	No data available	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)	Xi;R43 N;R51/53		0.1-1
[3R-(3 α ,3 β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	251-020-3	32388-55-9	No data available	Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Xi;R43 N;R50/53		0.1-1
d-limonene	227-813-5	5989-27-5	01-2119529223-47	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	R10 Xi;R38-43 N;R50/53 Xn;R65		0.1-1
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	250-863-4	31906-04-4	No data available	Skin Sens. 1B (H317) Aquatic Chronic 3 (H412)	Xi;R43 R52/53		0.1-1
isoeugenol	202-590-7	97-54-1	No data available	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1A (H317)	Xn;R21/22 Xi;R36/38-43		0.01-0.1

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* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information:

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.

Inhalation

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion:

Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:

No known effects or symptoms in normal use.

Skin contact:

May cause an allergic skin reaction. Direct contact can damage skin by freezing.

Eye contact:

Direct contact can damage the eye by freezing.

Ingestion:

No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

Cool endangered packaging with water spray jet.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable gloves.

6.2 Environmental precautions

No special environmental precautions required. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Absorb liquid components with liquid-binding material.

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

Keep away from heat. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50° C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Handle and open container with care. Do not mix with other products unless advised by Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Use personal protective equipment as required. Use only with adequate ventilation.

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7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
dimethyl ether	400 ppm 766 mg/m ³	500 ppm 958 mg/m ³
ethanol	1000 ppm 1920 mg/m ³	3000 ppm 5760 mg/m ³
diethyl phthalate	5 mg/m ³	10 mg/m ³

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values**Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
dimethyl ether	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
diethyl phthalate	No data available	No data available	No data available	No data available
tricyclodecanedimethanol	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
benzyl benzoate	No data available	No data available	No data available	No data available
allyl hexanoate	No data available	No data available	No data available	No data available
eugenol	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
d-limonene	-	-	-	4.76
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available	No data available	No data available	No data available
isoeugenol	No data available	No data available	No data available	No data available

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
dimethyl ether	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
diethyl phthalate	No data available	No data available	No data available	No data available
tricyclodecanedimethanol	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
benzyl benzoate	No data available	No data available	No data available	No data available
allyl hexanoate	No data available	No data available	No data available	No data available
eugenol	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
d-limonene	0.222 mg/cm ² skin	-	No data available	-
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available	No data available	No data available	No data available
isoeugenol	No data available	No data available	No data available	No data available

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DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
dimethyl ether	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
diethyl phthalate	No data available	No data available	No data available	No data available
tricyclodecanedimethanol	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
benzyl benzoate	No data available	No data available	No data available	No data available
allyl hexanoate	No data available	No data available	No data available	No data available
eugenol	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
[3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
d-limonene	0.111 mg/cm ² skin	-	No data available	-
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available	No data available	No data available	No data available
isoeugenol	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
dimethyl ether	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
diethyl phthalate	No data available	No data available	No data available	No data available
tricyclodecanedimethanol	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
benzyl benzoate	No data available	No data available	No data available	No data available
allyl hexanoate	No data available	No data available	No data available	No data available
eugenol	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
[3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
d-limonene	-	-	-	33.3
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available	No data available	No data available	No data available
isoeugenol	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
dimethyl ether	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
diethyl phthalate	No data available	No data available	No data available	No data available
tricyclodecanedimethanol	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
benzyl benzoate	No data available	No data available	No data available	No data available
allyl hexanoate	No data available	No data available	No data available	No data available
eugenol	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
[3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
d-limonene	-	-	-	8.33
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available	No data available	No data available	No data available
isoeugenol	No data available	No data available	No data available	No data available

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
dimethyl ether	No data available	No data available	No data available	No data available

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ethanol	No data available	No data available	No data available	No data available
diethyl phthalate	No data available	No data available	No data available	No data available
tricyclodecanedimethanol	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
benzyl benzoate	No data available	No data available	No data available	No data available
allyl hexanoate	No data available	No data available	No data available	No data available
eugenol	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
d-limonene	0.0054	0.00054	-	1.8
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available	No data available	No data available	No data available
isoeugenol	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
dimethyl ether	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
diethyl phthalate	No data available	No data available	No data available	No data available
tricyclodecanedimethanol	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
benzyl benzoate	No data available	No data available	No data available	No data available
allyl hexanoate	No data available	No data available	No data available	No data available
eugenol	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
d-limonene	1.32	0.13	0.262	-
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available	No data available	No data available	No data available
isoeugenol	No data available	No data available	No data available	No data available

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2.
If available, please refer to the product information sheet for application and handling instructions.
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment**Eye / face protection:**

Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.

Hand protection:

Chemical-resistant protective gloves (EN 374).
Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier.
Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:

Material: butyl rubber
Penetration time: \geq 480 min
Material thickness: \geq 0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber
Penetration time: \geq 30 min
Material thickness: \geq 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or

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aerosols should be avoided.

Environmental exposure controls: No special requirements under normal use conditions.**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties***Information in this section refers to the product, unless it is specifically stated that substance data is listed***Method / remark****Physical State:** Liquid Aerosol**Colour:** Colourless**Odour:** Perfumed**Odour threshold:** Not applicable**pH:** Not applicable.**Melting point/freezing point (°C):** Not determined**Initial boiling point and boiling range (°C):** Not applicable as product is an aerosol

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
dimethyl ether	No data available		
ethanol	78.4	Method not given	
diethyl phthalate	No data available		
tricyclodecanedimethanol	No data available		
2-phenylethanol	No data available		
ionone, methyl-	No data available		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available		
alpha-hexylcinnamaldehyde	No data available		
citronellol	No data available		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		
benzyl benzoate	No data available		
allyl hexanoate	No data available		
eugenol	No data available		
benzyl salicylate	No data available		
[3R-(3 α ,3 α β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available		
d-limonene	175-178	Method not given	1013
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available		
isoeugenol	No data available		

Method / remark**Flash point (°C):** Not applicable as product is an aerosol**Sustained combustion:** Not determined**Evaporation rate:** Not determined**Flammability (solid, gas):** Not determined**Upper/lower flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
d-limonene	0.7	6.1

Method / remark**Vapour pressure:** Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
dimethyl ether	No data available		
ethanol	5800	Method not given	
diethyl phthalate	No data available		
tricyclodecanedimethanol	No data available		
2-phenylethanol	No data available		
ionone, methyl-	No data available		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available		
alpha-hexylcinnamaldehyde	No data available		
citronellol	No data available		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		
benzyl benzoate	No data available		
allyl hexanoate	No data available		
eugenol	No data available		

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benzyl salicylate	No data available		
[3R-(3 α ,3 β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available		
d-limonene	190-230	Method not given	20
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available		
isoeugenol	No data available		

Method / remark

Vapour density: Not determined

Relative density: 0.789 g/cm³ (20 °C)

Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
dimethyl ether	No data available		
ethanol	No data available		
diethyl phthalate	No data available		
tricyclodecanedimethanol	No data available		
2-phenylethanol	No data available		
ionone, methyl-	No data available		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available		
alpha-hexylcinnamaldehyde	No data available		
citronellol	No data available		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		
benzyl benzoate	No data available		
allyl hexanoate	No data available		
eugenol	No data available		
benzyl salicylate	No data available		
[3R-(3 α ,3 β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available		
d-limonene	Insoluble	Method not given	20
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available		
isoeugenol	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

Explosive properties: Not explosive. Vapours may form explosive mixtures with air.

Oxidising properties: Not oxidising

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Not corrosive

Substance data, dissociation constant, if available:

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

Keep away from heat and direct sunlight. Protect from sunlight.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

ATE - Dermal (mg/kg): >2000

Substance data, where relevant and available, are listed below.

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
dimethyl ether		No data available			
ethanol	LD ₅₀	5000	Rat	OECD 401 (EU B.1)	-
diethyl phthalate	LD ₅₀	> 8000	Rat	Method not given	
tricyclodecanedimethanol		No data available			
2-phenylethanol		No data available			
ionone, methyl-		No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available			
alpha-hexylcinnamaldehyde		No data available			
citronellol		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
benzyl benzoate		No data available			
allyl hexanoate		No data available			
eugenol		No data available			
benzyl salicylate		No data available			
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
d-limonene	LD ₅₀	4400 - 5100	Rat	Method not given	
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available			
isoeugenol		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
dimethyl ether		No data available			
ethanol	LD ₅₀	> 10000	Rabbit	OECD 402 (EU B.3)	-
diethyl phthalate	LD ₅₀	> 10000	Rat	Method not given	
tricyclodecanedimethanol		No data available			
2-phenylethanol		No data available			
ionone, methyl-		No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available			
alpha-hexylcinnamaldehyde		No data available			
citronellol		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
benzyl benzoate		No data available			
allyl hexanoate		No data available			
eugenol		No data available			
benzyl salicylate		No data available			
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
d-limonene	LD ₅₀	> 5000	Rabbit	Method not given	
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available			

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		available		
isoeugenol		No data available		

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
dimethyl ether		No data available			
ethanol	LC ₅₀	> 1800	Rat	Non guideline test	4
diethyl phthalate		No data available			
tricyclodecanedimethanol		No data available			
2-phenylethanol		No data available			
ionone, methyl-		No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available			
alpha-hexylcinnamaldehyde		No data available			
citronellol		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
benzyl benzoate		No data available			
allyl hexanoate		No data available			
eugenol		No data available			
benzyl salicylate		No data available			
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
d-limonene		No data available			
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available			
isoeugenol		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
dimethyl ether	No data available			
ethanol	No data available			
diethyl phthalate	No data available			
tricyclodecanedimethanol	No data available			
2-phenylethanol	No data available			
ionone, methyl-	No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available			
alpha-hexylcinnamaldehyde	No data available			
citronellol	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
benzyl benzoate	No data available			
allyl hexanoate	No data available			
eugenol	No data available			
benzyl salicylate	No data available			
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
d-limonene	Irritant	Rabbit	Method not given	
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available			
isoeugenol	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
dimethyl ether	No data available			
ethanol	No data available			
diethyl phthalate	No data available			
tricyclodecanedimethanol	No data available			
2-phenylethanol	No data available			
ionone, methyl-	No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available			
alpha-hexylcinnamaldehyde	No data available			

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citronellol	No data available		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		
benzyl benzoate	No data available		
allyl hexanoate	No data available		
eugenol	No data available		
benzyl salicylate	No data available		
[3R-(3 α ,3 α β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available		
d-limonene	No data available		
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available		
isoeugenol	No data available		

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
dimethyl ether	No data available			
ethanol	No data available			
diethyl phthalate	No data available			
tricyclodecanedimethanol	No data available			
2-phenylethanol	No data available			
ionone, methyl-	No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available			
alpha-hexylcinnamaldehyde	No data available			
citronellol	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
benzyl benzoate	No data available			
allyl hexanoate	No data available			
eugenol	No data available			
benzyl salicylate	No data available			
[3R-(3 α ,3 α β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
d-limonene	No data available			
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available			
isoeugenol	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
dimethyl ether	No data available			
ethanol	No data available			-
diethyl phthalate	No data available			
tricyclodecanedimethanol	No data available			
2-phenylethanol	No data available			
ionone, methyl-	No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available			
alpha-hexylcinnamaldehyde	No data available			
citronellol	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
benzyl benzoate	No data available			
allyl hexanoate	No data available			
eugenol	No data available			
benzyl salicylate	No data available			
[3R-(3 α ,3 α β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
d-limonene	Sensitising	Guinea pig	Method not given	
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available			
isoeugenol	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
dimethyl ether	No data available			
ethanol	No data available			-
diethyl phthalate	No data available			
tricyclodecanedimethanol	No data available			
2-phenylethanol	No data available			
ionone, methyl-	No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available			
alpha-hexylcinnamaldehyde	No data available			
citronellol	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			

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benzyl benzoate	No data available			
allyl hexanoate	No data available			
eugenol	No data available			
benzyl salicylate	No data available			
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
d-limonene	No data available			
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available			
isoeugenol	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
dimethyl ether	No data available		No data available	
ethanol	No data available		No data available	
diethyl phthalate	No data available		No data available	
tricyclodecanedimethanol	No data available		No data available	
2-phenylethanol	No data available		No data available	
ionone, methyl-	No data available		No data available	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available		No data available	
alpha-hexylcinnamaldehyde	No data available		No data available	
citronellol	No data available		No data available	
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		No data available	
benzyl benzoate	No data available		No data available	
allyl hexanoate	No data available		No data available	
eugenol	No data available		No data available	
benzyl salicylate	No data available		No data available	
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available		No data available	
d-limonene	No data available		No data available	
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available		No data available	
isoeugenol	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
dimethyl ether	No data available
ethanol	No data available
diethyl phthalate	No data available
tricyclodecanedimethanol	No data available
2-phenylethanol	No data available
ionone, methyl-	No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available
alpha-hexylcinnamaldehyde	No data available
citronellol	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available
benzyl benzoate	No data available
allyl hexanoate	No data available
eugenol	No data available
benzyl salicylate	No data available
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available
d-limonene	No data available
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available
isoeugenol	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
dimethyl ether			No data available				
ethanol			No data available				
diethyl phthalate			No data available				
tricyclodecanedimethanol			No data available				
2-phenylethanol			No data available				
ionone, methyl-			No data available				

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1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran			No data available				
alpha-hexylcinnamaldehyde			No data available				
citronellol			No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one			No data available				
benzyl benzoate			No data available				
allyl hexanoate			No data available				
eugenol			No data available				
benzyl salicylate			No data available				
[3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one			No data available				
d-limonene			No data available				
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde			No data available				
isoeugenol			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
dimethyl ether		No data available				
ethanol		No data available			-	
diethyl phthalate		No data available				
tricyclodecanedimethanol		No data available				
2-phenylethanol		No data available				
ionone, methyl-		No data available				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available				
alpha-hexylcinnamaldehyde		No data available				
citronellol		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
benzyl benzoate		No data available				
allyl hexanoate		No data available				
eugenol		No data available				
benzyl salicylate		No data available				
[3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
d-limonene		No data available				
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available				
isoeugenol		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
dimethyl ether		No data available				
ethanol		No data available			-	
diethyl phthalate		No data available				
tricyclodecanedimethanol		No data available				
2-phenylethanol		No data available				

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ionone, methyl-		No data available				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available				
alpha-hexylcinnamaldehyde		No data available				
citronellol		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
benzyl benzoate		No data available				
allyl hexanoate		No data available				
eugenol		No data available				
benzyl salicylate		No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
d-limonene		No data available				
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available				
isoeugenol		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
dimethyl ether		No data available				
ethanol		No data available			-	
diethyl phthalate		No data available				
tricyclodecanedimethanol		No data available				
2-phenylethanol		No data available				
ionone, methyl-		No data available				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available				
alpha-hexylcinnamaldehyde		No data available				
citronellol		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
benzyl benzoate		No data available				
allyl hexanoate		No data available				
eugenol		No data available				
benzyl salicylate		No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
d-limonene		No data available				
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available				
isoeugenol		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
dimethyl ether			No data available					
ethanol			No data available					
diethyl phthalate			No data available					
tricyclodecanedimethanol			No data available					
2-phenylethanol			No data available					
ionone, methyl-			No data available					
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran			No data available					

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alpha-hexylcinnamaldehyde			No data available				
citronellol			No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one			No data available				
benzyl benzoate			No data available				
allyl hexanoate			No data available				
eugenol			No data available				
benzyl salicylate			No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one			No data available				
d-limonene			No data available				
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde			No data available				
isoeugenol			No data available				

STOT-single exposure

Ingredient(s)	Affected organ(s)
dimethyl ether	No data available
ethanol	No data available
diethyl phthalate	No data available
tricyclodecanedimethanol	No data available
2-phenylethanol	No data available
ionone, methyl-	No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available
alpha-hexylcinnamaldehyde	No data available
citronellol	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available
benzyl benzoate	No data available
allyl hexanoate	No data available
eugenol	No data available
benzyl salicylate	No data available
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available
d-limonene	No data available
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available
isoeugenol	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
dimethyl ether	No data available
ethanol	No data available
diethyl phthalate	No data available
tricyclodecanedimethanol	No data available
2-phenylethanol	No data available
ionone, methyl-	No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available
alpha-hexylcinnamaldehyde	No data available
citronellol	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available
benzyl benzoate	No data available
allyl hexanoate	No data available
eugenol	No data available
benzyl salicylate	No data available
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available
d-limonene	No data available
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available
isoeugenol	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

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Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
dimethyl ether		No data available			
ethanol	LC ₅₀	8150	<i>Alburnus alburnus</i>	Method not given	96
diethyl phthalate	LC ₅₀	17	<i>Pimephales promelas</i>	Method not given	96
tricyclodecanedimethanol		No data available			
2-phenylethanol		No data available			
ionone, methyl-		No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available			
alpha-hexylcinnamaldehyde		No data available			
citronellol		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
benzyl benzoate		No data available			
allyl hexanoate		No data available			
eugenol		No data available			
benzyl salicylate		No data available			
[3R-(3α,3αβ,7β,8αα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
d-limonene	LC ₅₀	0.72	<i>Pimephales promelas</i>	OECD 203	96
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available			
isoeugenol		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
dimethyl ether		No data available			
ethanol	EC ₅₀	9268 - 14221	<i>Daphnia magna Straus</i>	Method not given	48
diethyl phthalate	EC ₅₀	> 40	<i>Daphnia magna Straus</i>	Method not given	24
tricyclodecanedimethanol		No data available			
2-phenylethanol		No data available			
ionone, methyl-		No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available			
alpha-hexylcinnamaldehyde		No data available			
citronellol		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
benzyl benzoate		No data available			
allyl hexanoate		No data available			
eugenol		No data available			
benzyl salicylate		No data available			
[3R-(3α,3αβ,7β,8αα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			

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ethanoazulen-5-yl)ethan-1-one		available			
d-limonene	EC ₅₀	0.36	<i>Daphnia magna Straus</i>	OECD 202	48
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available			
isoeugenol		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
dimethyl ether		No data available			
ethanol	EC ₀	5000	<i>Scenedesmus quadricauda</i>	Method not given	168
diethyl phthalate		No data available			-
tricyclodecanedimethanol		No data available			
2-phenylethanol		No data available			
ionone, methyl-		No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available			
alpha-hexylcinnamaldehyde		No data available			
citronellol		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
benzyl benzoate		No data available			
allyl hexanoate		No data available			
eugenol		No data available			
benzyl salicylate		No data available			
[3R-(3α,3αβ,7β,8αα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
d-limonene	E _r C ₅₀	150	<i>Desmodesmus subspicatus</i>	OECD 201	72
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available			
isoeugenol		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
dimethyl ether		No data available			
ethanol		No data available			-
diethyl phthalate		No data available			-
tricyclodecanedimethanol		No data available			
2-phenylethanol		No data available			
ionone, methyl-		No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available			
alpha-hexylcinnamaldehyde		No data available			
citronellol		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
benzyl benzoate		No data available			
allyl hexanoate		No data available			
eugenol		No data available			
benzyl salicylate		No data available			
[3R-(3α,3αβ,7β,8αα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
d-limonene		No data available			-
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	Page 17 / 23	No data available			

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isoeugenol		No data available			
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Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
dimethyl ether		No data available			
ethanol	EC ₀	6500	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
diethyl phthalate		No data available			
tricyclodecanedimethanol		No data available			
2-phenylethanol		No data available			
ionone, methyl-		No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available			
alpha-hexylcinnamaldehyde		No data available			
citronellol		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
benzyl benzoate		No data available			
allyl hexanoate		No data available			
eugenol		No data available			
benzyl salicylate		No data available			
[3R-(3 α ,3 α β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
d-limonene		No data available			
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available			
isoeugenol		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
dimethyl ether		No data available				
ethanol		No data available				
diethyl phthalate		No data available				
tricyclodecanedimethanol		No data available				
2-phenylethanol		No data available				
ionone, methyl-		No data available				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available				
alpha-hexylcinnamaldehyde		No data available				
citronellol		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
benzyl benzoate		No data available				
allyl hexanoate		No data available				
eugenol		No data available				
benzyl salicylate		No data available				
[3R-(3 α ,3 α β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
d-limonene		No data available				
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available				
isoeugenol		No data available				

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Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
dimethyl ether		No data available				
ethanol		No data available				
diethyl phthalate		No data available				
tricyclodecanedimethanol		No data available				
2-phenylethanol		No data available				
ionone, methyl-		No data available				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available				
alpha-hexylcinnamaldehyde		No data available				
citronellol		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
benzyl benzoate		No data available				
allyl hexanoate		No data available				
eugenol		No data available				
benzyl salicylate		No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
d-limonene		No data available				
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available				
isoeugenol		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
dimethyl ether		No data available				
ethanol		No data available			-	
diethyl phthalate		No data available			-	
tricyclodecanedimethanol		No data available				
2-phenylethanol		No data available				
ionone, methyl-		No data available				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		No data available				
alpha-hexylcinnamaldehyde		No data available				
citronellol		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
benzyl benzoate		No data available				
allyl hexanoate		No data available				
eugenol		No data available				
benzyl salicylate		No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
d-limonene		No data available			-	
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde		No data available				
isoeugenol		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw)	Species	Method	Exposure time (days)	Effects observed
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		soil)				
ethanol		No data available			-	
diethyl phthalate		No data available			-	
d-limonene		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
ethanol		No data available			-	
diethyl phthalate		No data available			-	
d-limonene		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
ethanol		No data available			-	
diethyl phthalate		No data available			-	
d-limonene		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
ethanol		No data available			-	
diethyl phthalate		No data available			-	
d-limonene		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
ethanol		No data available			-	
diethyl phthalate		No data available			-	
d-limonene		No data available			-	

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
dimethyl ether					No data available
ethanol					No data available
diethyl phthalate					No data available
tricyclodecanedimethanol					No data available
2-phenylethanol					No data available
ionone, methyl-					No data available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran					No data available
alpha-hexylcinnamaldehyde					No data available
citronellol					No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one					No data available
benzyl benzoate					No data available
allyl hexanoate					No data available
eugenol					No data available
benzyl salicylate					No data available
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,					No data available

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8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one					
d-limonene			80 % in 28 day(s)	OECD 301D	Readily biodegradable
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde					No data available
isoeugenol					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
dimethyl ether	No data available			
ethanol	No data available			
diethyl phthalate	No data available			
tricyclodecanedimethanol	No data available			
2-phenylethanol	No data available			
ionone, methyl-	No data available			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available			
alpha-hexylcinnamaldehyde	No data available			
citronellol	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
benzyl benzoate	No data available			
allyl hexanoate	No data available			
eugenol	No data available			
benzyl salicylate	No data available			
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
d-limonene	No data available		High potential for bioaccumulation	
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available			
isoeugenol	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
dimethyl ether	No data available				
ethanol	No data available				
diethyl phthalate	No data available				
tricyclodecanedimethanol	No data available				
2-phenylethanol	No data available				
ionone, methyl-	No data available				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available				
alpha-hexylcinnamaldehyde	No data available				
citronellol	No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available				
benzyl benzoate	No data available				
allyl hexanoate	No data available				
eugenol	No data available				
benzyl salicylate	No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available				
d-limonene	683.1		Method not given	High potential for bioaccumulation	
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available				
isoeugenol	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation

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dimethyl ether	No data available				
ethanol	No data available				
diethyl phthalate	No data available				
tricyclodecanedimethanol	No data available				
2-phenylethanol	No data available				
ionone, methyl-	No data available				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	No data available				
alpha-hexylcinnamaldehyde	No data available				
citronellol	No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available				
benzyl benzoate	No data available				
allyl hexanoate	No data available				
eugenol	No data available				
benzyl salicylate	No data available				
[3R-(3 α ,3 β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available				
d-limonene	No data available				High potential for mobility in soil
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	No data available				
isoeugenol	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

European Waste Catalogue:

16 05 04* - gases in pressure containers (including halons) containing dangerous substances.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information**ADR, RID, ADN, IMO/IMDG, ICAO/IATA**

14.1 UN number: 1950

14.2 UN proper shipping name:

Aerosols

14.3 Transport hazard class(es):

Class: 2

Label(s): 2.1

14.4 Packing group: -

14.5 Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:**ADR**

Classification code: 5F

Tunnel restriction code: D

Hazard identification number: -

IMO/IMDG

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EmS: F-D, S-U

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. According to special provision 190, aerosols with a capacity not exceeding 50ml containing only non-toxic constituents are not subject to the requirements of ADR or the provisions of the IMDG code.

SECTION 15: Regulatory information

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

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

MSDS code: MSDS5003

Version: 02.0

Revision: 2015-01-09

Reason for revision:

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, 3, 8, 14

Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Full text of the R, H and EUH phrases mentioned in section 3:

- H220 - Extremely flammable gas.
- H225 - Highly flammable liquid and vapour.
- H226 - Flammable liquid and vapour.
- H280 - Contains gas under pressure; may explode if heated.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H311 - Toxic in contact with skin.
- H312 - Harmful in contact with skin.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.
- R10 - Flammable.
- R11 - Highly flammable.
- R12 - Extremely flammable.
- R21 - Harmful in contact with skin.
- R22 - Harmful if swallowed.
- R36 - Irritating to eyes.
- R38 - Irritating to skin.
- R43 - May cause sensitisation by skin contact.
- R65 - Harmful: may cause lung damage if swallowed.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

End of Safety Data Sheet