Glade® touch & fresh® - Fresh Lemon

Version 2.0
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Specification Number: 350000038569
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier : Glade® touch & fresh® - Fresh Lemon

UFI : 4ATE-R3PK-N00K-MRJ6

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

Use of the Substance/Mixture : Air care products

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet : SC Johnson Sweden AB
Ekbacksvägen 28168 69 Bromma, Sverige

Telephone : +460200212025

E-mail address : info@scjohnson.se

1.4 Emergency telephone number : 112 Poison information

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

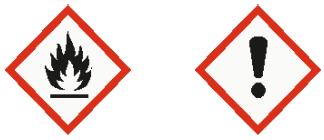
Classification according to Regulation (EC) No 1272/2008 (CLP)

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 1	Extremely flammable aerosol.
Eye irritation	Category 2A	Causes serious eye irritation.
Long-term (chronic) aquatic hazard	Category 3	Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard symbols



Signal word

Danger

Hazard statements
(H222) Extremely flammable aerosol.
(H229) Pressurised container: May burst if heated.
(H319) Causes serious eye irritation.
(H412) Harmful to aquatic life with long lasting effects.

Precautionary statements
(P101) If medical advice is needed, have product container or label at hand.
(P102) Keep out of reach of children.
(P305 + P351 + P338) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
(P337 + P313) If eye irritation persists: Get medical advice/ attention.
(P410 + P412) Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
(P501) Dispose of contents /container in accordance with local regulations.
(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.

Additional Labelling
Use only in well-ventilated areas.
Store in a cool, dry place.
People suffering from perfume sensitivity should be cautious when using this product.
Air fresheners do not replace good hygiene practices.
Keep the main packaging for the precautions for use.

Contains
citronellol
3-p-cumenyl-2-methylpropionaldehyde
citronellal
nerol
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
pin-2(10)-ene
citral
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one
d-limonene
linalool
3,7-dimethyloctan-3-ol
alpha-hexylcinnamaldehyde
May produce an allergic reaction.

2.3 Other hazards : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Endocrine Disruptor
The mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties.

PBT and vPvB substance
The mixture does not contain any substances >0.1% that meet the criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative in accordance with Annex XIII.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous components:

Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
ethyl alcohol	64-17-5 / 200-578-6	01-2119457610-43	Flammable liquids Category 2 H225 Serious eye damage/eye irritation Category 2 H319	>= 30.00 - < 40.00	**ATE :** **Oral** = 10,470 mg/kg Species: Rat **Dermal** = > 15,800 mg/kg Species: Rabbit **SCL:** Serious eye damage/eye irritation H319 >= 50 %
decanal	112-31-2 / 203-957-4	01-2119967771-26	Skin corrosion/irritation Category 2 H315 Long-term (chronic) aquatic hazard Category 3 H412 Eye irritation	>= 0.50 - < 1.00	**ATE :** **Oral** = 3,730 mg/kg Species: Rat **Dermal** = 4,183 mg/kg Species: Rabbit

Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Category 2A H319		
2,6-dimethyloct-7-en-2-ol	18479-58-8 / 242-362-4	01-2119457274-37	Eye irritation Category 2 H319 Skin irritation Category 2 H315	>= 0.50 - < 1.00	**ATE :** **Oral** = 3,600 mg/kg Species: Rat **Dermal** = > 5,000 mg/kg Species: Rabbit
d-limonene	5989-27-5 / 227-813-5	01-2119529223-47	Flammable liquids Category 3 H226 Skin irritation Category 2 H315 Skin sensitisation Category 1B H317 Aspiration hazard Category 1 H304 Short-term (acute) aquatic hazard Category 1 H400 Long-term (chronic) aquatic hazard Category 3 H412	>= 0.10 - < 0.50	M-Factor Chronic = 1 M-Factor Acute = 1 **ATE :** **Oral** = > 2,000 mg/kg Species: Rat **Dermal** = > 5 g/kg Species: Rabbit

Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
citronellol	106-22-9 / 203-375-0	01-2119453995-23	Skin corrosion/irritation Category 2 H315 Serious eye damage/eye irritation Category 2A H319 Skin sensitisation Category 1 H317	>= 0.10 - < 0.50	**ATE :** **Oral** = 3,450 mg/kg Species: Rat **Dermal** = 2,650 mg/kg Species: Rabbit
3,7-dimethyloctan-3-ol	78-69-3 / 201-133-9	01-2119454788-21	Skin irritation Category 2 H315 Eye irritation Category 2A H319 Skin sensitisation Category 1B H317	>= 0.10 - < 0.50	**ATE :** **Oral** = 8,270 mg/kg Species: Rat **Dermal** = > 5,000 mg/kg Species: Rabbit
linalool	78-70-6 / 201-134-4	01-2119474016-42	Skin sensitisation Category 1B H317 Skin corrosion/irritation Category 2 H315 Serious eye damage/eye irritation Category 2	>= 0.10 - < 0.50	**ATE :** **Oral** = 2,790 mg/kg Species: Rat **Dermal** = 5,610 mg/kg Species: Rabbit

Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			H319		
alpha-hexylcinnamaldehyde	101-86-0 / 202-983-3	Not required	Short-term (acute) aquatic hazard Category 1 H400 Long-term (chronic) aquatic hazard Category 2 H411 Skin sensitisation Category 1B H317	>= 0.10 - < 0.50	M-Factor Acute = 1 **ATE :** **Oral** = 3,100 mg/kg Species: Rat **Dermal** = > 3,000 mg/kg Species: Rabbit **Inhalation** = > 5 mg/l Species: Rat
pin-2(10)-ene	127-91-3 / 204-872-5	Not required	Long-term (chronic) aquatic hazard Category 1 H410 Short-term (acute) aquatic hazard Category 1 H400 Flammable liquids Category 3 H226 Aspiration hazard Category 1 H304 Skin corrosion/irritation Category 2 H315	>= 0.10 - < 0.50	M-Factor Acute = 1 M-Factor Chronic = 1 **ATE :** **Oral** = > 5,000 mg/kg Species: Rat **Dermal** = > 5,000 mg/kg Species: Rabbit

Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Skin sensitisation Category 1 H317		
citronellal	106-23-0 / 203-376-6	01-2119474900-37	Skin corrosion/irritation Category 2 H315 Serious eye damage/eye irritation Category 2A H319 Skin sensitisation Category 1 H317	>= 0.10 - < 0.50	**ATE :** **Oral** = 2,555 mg/kg Species: Rat **Dermal** = > 2,500 mg/kg Species: Rabbit
3-p-cumenyl-2-methylpropionaldehyde	103-95-7 / 203-161-7	01-2119970582-32	Skin corrosion/irritation Category 2 H315 Skin sensitisation Category 1B H317 Long-term (chronic) aquatic hazard Category 3 H412	>= 0.10 - < 0.50	**ATE :** **Oral** = 3,810 mg/kg Species: Rat **Dermal** = > 5,000 mg/kg Species: Rat
nerol	106-25-2 / 203-378-7	01-2119983244-33	Skin corrosion/irritation Category 2 H315	>= 0.10 - < 0.50	**ATE :** **Oral** = 4,500 mg/kg Species: Rat **Dermal** = > 5,000

Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Skin sensitisation Category 1B H317 Eye irritation Category 2 H319		mg/kg Species: Rabbit
citral	5392-40-5 / 226-394-6	01-2119462829-23	Skin irritation Category 2 H315 Skin sensitisation Category 1 H317 Eye irritation Category 2A H319	>= 0.00 - < 0.10	**ATE :** **Oral** = 6,800 mg/kg Species: Rat **Dermal =** > 2,000 mg/kg Species: Rat
4-methyl-3-decen-5-ol	81782-77-6 / 279-815-0	01-2119983528-21	Short-term (acute) aquatic hazard Category 1 H400 Long-term (chronic) aquatic hazard Category 2 H411	>= 0.00 - < 0.10	M-Factor Acute = 1 **ATE :** **Oral** = 8,001 mg/kg Species: Rat
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5 / 204-846-3	01-2120138569-45	Skin irritation Category 2 H315 Skin sensitisation Category 1B	>= 0.00 - < 0.10	**ATE :** **Oral** = > 5,000 mg/kg Species: Rat **Dermal =** > 5,000 mg/kg Species: Rabbit

Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			H317 Long-term (chronic) aquatic hazard Category 2 H411		
allyl hexanoate	123-68-2 / 204-642-4	01-2119983573-26	Short-term (acute) aquatic hazard Category 1 H400 Long-term (chronic) aquatic hazard Category 3 H412 Eye irritation Category 2A H319 Skin irritation Category 2 H315 Acute toxicity Category 3 H301 Acute toxicity Category 3 H311 Acute toxicity Category 3 H331	>= 0.00 - < 0.10	M-Factor Acute = 1 **ATE :** **Oral** = 218 mg/kg Species: Rat **Dermal =** 300 mg/kg Species: Rabbit

WEL substance					
pin-2(3)-ene	80-56-8 / 201-291-9	01-2119519223-49	Skin sensitisation Category 1B H317 Skin irritation Category 2 H315 Long-term (chronic) aquatic hazard Category 1 H400 Short-term (acute) aquatic hazard Category 1 H410 Aspiration hazard Category 1 H304 Acute toxicity Category 4 H302 Flammable liquids Category 3 H226	>= 0.00 - < 0.10	M-Factor Acute = 1 M-Factor Chronic = 1 **ATE :** **Oral** = 3,700 mg/kg Species: Rat **Dermal** = > 5,000 mg/kg Species: Rat

Additional Information
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation : Move to fresh air.
If breathing is affected, get medical attention.

Skin contact : Rinse with plenty of water.
Get medical attention if irritation develops and persists.

Eye contact	:	Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	:	Do NOT induce vomiting. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Eyes	:	Causes serious eye irritation. No adverse effects expected when used as directed.
Skin effect	:	May cause skin irritation. No adverse effects expected when used as directed.
Inhalation	:	Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal. No adverse effects expected when used as directed.
Ingestion	:	May cause irritation to mouth, throat and stomach. May cause abdominal discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable	:	High volume water jet
5.2 Special hazards arising from the substance or mixture	:	Heating may cause an explosion. In case of fire and/or explosion do not breathe fumes. Exposure to decomposition products may be a hazard to health.
5.3 Advice for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Wear suitable protective clothing and gloves. Refer to current EN or National standard as appropriate.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2 Environmental precautions	:	Outside of normal use, avoid release to the environment. Prevent large amounts of product from entering drains. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Use appropriate containment to avoid environmental contamination.
6.3 Methods and materials for containment and cleaning up	:	If damage occurs to aerosol can: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean residue from spill site. Dike large spills. Use only non-sparking equipment.
6.4 Reference to other sections	:	For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	:	For personal protection see section 8. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Wear personal protective equipment. Do not use in areas without adequate ventilation. Do not puncture. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Do not spray on a naked flame or any incandescent material. Take measures to prevent the build up of electrostatic charge.
7.2 Conditions for safe storage, including any incompatibilities	:	No smoking. Store in cool place. Do not freeze.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Keep out of the reach of children.
Store away from food, beverages and pet food.
Stable under normal conditions.
No decomposition if stored and applied as directed.

7.3 Specific end use(s) : Consumer uses: Private households (= general public = consumers)
Air care products

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limit Values

Components	CAS-No.	mg/m3	ppm	Form of exposure	List
ethyl alcohol	64-17-5	1,900 mg/m3	1,000 ppm		SE_STEL
		1,000 mg/m3	500 ppm		SE_TWAS
d-limonene	5989-27-5	300 mg/m3	50 ppm		SE_STEL
		150 mg/m3	25 ppm		SE_TWAS
pin-2(10)-ene	127-91-3	300 mg/m3	50 ppm		SE_STEL
		150 mg/m3	25 ppm		SE_TWAS
pin-2(3)-ene	80-56-8	300 mg/m3	50 ppm		SE_STEL
		150 mg/m3	25 ppm		SE_TWAS

Refer to current EN or National standard as appropriate.

8.2 Exposure controls

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection : Wear suitable gloves.
Nitrile gloves – Thickness 0.12mm; Breakthrough time >2 hours.
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Before removing gloves clean them with soap and water.

Eye/face protection : Safety glasses

Skin and body protection	:	Wash contaminated clothing before re-use.
Other information	:	When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls	:	Refer to section 6.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	:	aerosol
Colour	:	colourless
Odour	:	Citrus
pH	:	Mixture is not soluble in water
Melting point/freezing point	:	Not required as mixture is a gas
Initial boiling point and boiling range	:	-42 °C
Flash point	:	< -7 C Propellant 16 C liquid
Flammability (solid, gas)	:	Sustains combustion
Lower flammability or explosive limits	:	1.8 %(V)
Upper flammability or explosive limits	:	9.5 %(V)
Vapour density	:	25.6
Relative density	:	0.79 g/ml estimated
Solubility(ies)	:	partly miscible
Partition coefficient: n-octanol/water	:	Not required as the product is a mixture.
Auto-ignition temperature	:	not auto-flammable

Decomposition temperature	:	Not measured as mixture is not self-reactive
Viscosity, kinematic	:	Not required as mixture is a gas
Particle Characteristics	:	Not required as mixture is a liquid

9.2 Other information

Other information	:	not required

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	:	No dangerous reaction known under conditions of normal use.
10.2 Chemical stability	:	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	:	None known.
10.4 Conditions to avoid	:	Heat, flames and sparks.
10.5 Incompatible materials	:	None known.
10.6 Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute oral toxicity

Name	Method	Species	Dose
Product	LD50 Calculated		> 2,000 mg/kg

Acute inhalation toxicity

Name	Method	Species	Dose	Exposure time
Product	LC50 (dust and mist) Calculated		> 5 mg/l	

Acute dermal toxicity

Name	Method	Species	Dose
Product	LD50 Calculated		> 2,000 mg/kg

Skin corrosion/irritation : Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation : Causes serious eye irritation.

Skin sensitisation : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxicity for reproduction : Based on available data, the classification criteria are not met.

STOT - single exposure : Based on available data, the classification criteria are not met.

STOT - repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine Disrupting Properties : The mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties

Other information : None identified

SECTION 12: ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

12.1 Toxicity

Toxicity to fish

Components	End point	Species	Value	Exposure time
ethyl alcohol	LC50	Fish	11,200 mg/l	96 h

decanal	LC50 semi-static test	Oncorhynchus mykiss (rainbow trout)	1.45 mg/l	96 h
2,6-dimethyloct-7-en-2-ol	LC50 static test Read-across (Analogy)	Oncorhynchus mykiss (rainbow trout)	27.8 mg/l	96 h
d-limonene	LC50 semi-static test OECD Test Guideline 203 NOEC semi-static test	Pimephales promelas (fathead minnow) Pimephales promelas (fathead minnow)	0.41 mg/l 0.059 mg/l	96 h 8 d
citronellol	LC50 static test	Leuciscus idus (Golden orfe)	14.66 mg/l	96 h
3,7-dimethyloctan-3-ol	LC50 semi-static test	Danio rerio (zebra fish)	8.9 mg/l	96 h
linalool	LC50 static test	Oncorhynchus mykiss (rainbow trout)	27.8 mg/l	96 h
alpha-hexylcinnamaldehyde	LC50 flow-through test OECD Test Guideline 203	Pimephales promelas (fathead minnow)	1.7 mg/l	96 h
pin-2(10)-ene	LC50 semi-static test	Cyprinus carpio (Carp)	> 0.6 mg/l	96 h
citronellal	LC50 static test	Leuciscus idus (Golden orfe)	22 mg/l	96 h
3-p-cumenyl-2-methylpropionaldehyde	LC50 QSAR	Fish	1.092 mg/l	96 h

nerol	LC50 semi-static test	Danio rerio (zebra fish)	20.3 mg/l	96 h
citral	LC50 static test	Leuciscus idus (Golden orfe)	6.78 mg/l	96 h
4-methyl-3-decen-5-ol	LC50 flow-through test Measured OECD Test Guideline 203	Pimephales promelas (fathead minnow)	3 mg/l	96 h
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	LC50 static test OECD Test Guideline 203	Danio rerio (zebra fish)	1.3 mg/l	96 h
allyl hexanoate	LC50 semi-static test	Danio rerio (zebra fish)	0.117 mg/l	96 h
pin-2(3)-ene	LC50 semi-static test Measured	Cyprinus carpio (Carp)	0.52 mg/l	96 h

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
ethyl alcohol	LC50 static test NOEC	Ceriodaphnia dubia Daphnia magna	5,012 mg/l 9.6 mg/l	48 h 9 d
decanal	EC50 Calculated	Daphnia magna (Water flea)	1.17 mg/l	48 h
2,6-dimethyloct-7-en-2-ol	EC50 static test NOEC Read-across (Analogy)	Daphnia magna (Water flea) Daphnia magna	38 mg/l 9.5 mg/l	48 h 21 d

d-limonene	EC50 static test NOEC semi-static test Measured	Daphnia magna (Water flea) Daphnia magna	0.36 mg/l 0.08 mg/l	48 h 21 d
citronellol	EC50 static test	Daphnia magna (Water flea)	17.48 mg/l	48 h
3,7-dimethyloctan-3-ol	EC50 static test	Daphnia magna (Water flea)	14.2 mg/l	48 h
linalool	EC50	Daphnia magna (Water flea)	20 mg/l	48 h
alpha-hexylcinnamaldehyde	EC50 Flow through NOEC	Daphnia magna (Water flea) Daphnia magna	0.38 mg/l 0.063 mg/l	48 h 21 d
pin-2(10)-ene	EC50 static test Measured	Daphnia magna (Water flea)	> 2.2 mg/l	48 h
citronellal	EC50 static test	Daphnia magna (Water flea)	8.7 mg/l	48 h
3-p-cumenyl-2-methylpropionaldehyde	EC50 semi-static test	Daphnia magna (Water flea)	1.4 mg/l	48 h
nerol	EC50 static test	Daphnia magna (Water flea)	32.4 mg/l	48 h
citral	EC50 static test	Daphnia magna (Water flea)	6.8 mg/l	48 h
4-methyl-3-decen-5-ol	EC50 flow-through test Measured	Daphnia magna (Water flea)	0.4 mg/l	48 h
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	EC50 semi-static	Daphnia magna (Water flea)	1.9 mg/l	48 h
allyl hexanoate	EC50 static test	Daphnia magna (Water flea)	2 mg/l	48 h

pin-2(3)-ene	EC50 semi-static	Daphnia magna (Water flea)	6.74 mg/l	48 h

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
ethyl alcohol	EC50 Static	Chlorella vulgaris (Fresh water algae)	275 mg/l	72 h
decanal	No data available			
2,6-dimethyloct-7-en-2-ol	EC50 static test	Desmodesmus subspicatus (green algae)	80 mg/l	72 h
d-limonene	NOEC static test	Pseudokirchneriella subcapitata (green algae)	0.05 mg/l	72 h
citronellol	EC50 static test	Desmodesmus subspicatus (green algae)	2.4 mg/l	72 h
3,7-dimethyloctan-3-ol	EC50 static test	Desmodesmus subspicatus (green algae)	21.6 mg/l	72 h
linalool	EC50 static test	Desmodesmus subspicatus (green algae)	156.7 mg/l	96 h
alpha-hexylcinnamaldehyde	NOEC	Desmodesmus subspicatus (green algae)	0.065 mg/l	72 h
pin-2(10)-ene	No data available			
citronellal	EC50 static test	Desmodesmus subspicatus (green algae)	13.33 mg/l	72 h
3-p-cumenyl-2-methylpropionaldehyde	EC50 static test	Pseudokirchneriella subcapitata (green algae)	4.3 mg/l	72 h
nerol	ErC50 static test	Pseudokirchneriella	9.54 mg/l	72 h

		subcapitata (green algae)		
citral	EC50	Desmodesmus subspicatus	16 mg/l	72 h
4-methyl-3-decen-5-ol	EC50 static test Measured	Pseudokirchneriella subcapitata (green algae)	3.6 mg/l	72 h
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	EC50 Measured	Scenedesmus capricornutum (fresh water algae)	4.4 mg/l	72 h
allyl hexanoate	EC50 static test	Desmodesmus subspicatus (green algae)	0.778 mg/l	72 h
pin-2(3)-ene	EC50	Scenedesmus capricornutum (fresh water algae)	973 mg/l	72 h

12.2 Persistence and degradability

Component	Biodegradation	Exposure time	Summary
ethyl alcohol	97 %	28 d	Readily biodegradable.
decanal	82 %	28 d	Readily biodegradable.
2,6-dimethyloct-7-en-2-ol	72 %	28 d	Readily biodegradable.
d-limonene	80 %	28 d	Readily biodegradable.
citronellol	80 - 90 %	28 d	Readily biodegradable.
3,7-dimethyloctan-3-ol	60 - 70 %	28 d	Readily biodegradable.
linalool	64.2 %	28 d	Readily biodegradable.
alpha-hexylcinnamaldehyde	97 %	28 d	Readily biodegradable.
pin-2(10)-ene	81 %	28 d	Readily biodegradable.
citronellal	83 %	28 d	Readily biodegradable.

3-p-cumenyl-2-methylpropionaldehyde	65.5 %	28 d	Readily biodegradable.
nerol	90 %	28 d	Readily biodegradable.
citral	85 - 95 %	28 d	Readily biodegradable.
4-methyl-3-decen-5-ol	73 %	28 d	Readily biodegradable.
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	77 %	28 d	Not readily biodegradable.
allyl hexanoate	70 %	28 d	Readily biodegradable.
pin-2(3)-ene	51 %	28 d	Not readily biodegradable.

12.3 Bioaccumulative potential

Component	**Bioconcentration factor (BCF)**	**Partition Coefficient n-Octanol/water (log)**
ethyl alcohol	3.2 estimated	-0.35 Measured
decanal	141.2 QSAR	3.8
2,6-dimethyloct-7-en-2-ol	64.8 QSAR	3
d-limonene	1,022 QSAR	4.38
citronellol	82.59 QSAR	3.41 Measured
3,7-dimethyloctan-3-ol	99.87 QSAR	3.8
linalool	No data available	2.84 Measured
alpha-hexylcinnamaldehyde	704.3 QSAR	4.9 Measured
pin-2(10)-ene	1,163 estimated	5.4 Measured
citronellal	113.6	3.62
3-p-cumenyl-2-methylpropionaldehyde	155 QSAR	4.0
nerol	No data available	2.76
citral	89.72	2.76
4-methyl-3-decen-5-ol	No data available	3.9 Measured
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	726.4 Calculated	4.84 QSAR
allyl hexanoate	59.2 QSAR	3.191

pin-2(3)-ene	1,845	5.7

12.4 Mobility in soil

Component	End point	Value
ethyl alcohol	No data available	
decanal	log Koc	2.9
2,6-dimethyloct-7-en-2-ol	log Koc	2.25
d-limonene	Koc	6324
citronellol	Koc	70.79
3,7-dimethyloctan-3-ol	Koc	56.3
linalool	Koc	75 Measured
alpha-hexylcinnamaldehyde	Koc	150000 Measured
pin-2(10)-ene	Koc	2032 estimated
citronellal	log Koc	2.16
3-p-cumenyl-2-methylpropionaldehyde	log Koc	3.05
nerol	Koc	94.15 QSAR
citral	Koc	147.7
4-methyl-3-decen-5-ol	log Koc	3.07
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	log Koc	3.486 Measured
allyl hexanoate	No data available	
pin-2(3)-ene	Koc	7421

12.5 Results of PBT and vPvB assessment

Component	Results
ethyl alcohol	Not fulfilling PBT and vPvB criteria
decanal	Not fulfilling PBT and vPvB criteria

2,6-dimethyloct-7-en-2-ol	Not fulfilling PBT and vPvB criteria
d-limonene	Not fulfilling PBT and vPvB criteria
citronellol	Not fulfilling PBT and vPvB criteria
3,7-dimethyloctan-3-ol	Not fulfilling PBT and vPvB criteria
linalool	Not fulfilling PBT and vPvB criteria
alpha-hexylcinnamaldehyde	Not fulfilling PBT and vPvB criteria
pin-2(10)-ene	Not fulfilling PBT and vPvB criteria
citronellal	Not fulfilling PBT and vPvB criteria
3-p-cumenyl-2-methylpropionaldehyde	Not fulfilling PBT and vPvB criteria
nerol	Not fulfilling PBT and vPvB criteria
citral	Not fulfilling PBT and vPvB criteria
4-methyl-3-decen-5-ol	Not fulfilling PBT and vPvB criteria
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Not fulfilling PBT and vPvB criteria
allyl hexanoate	Not fulfilling PBT and vPvB criteria
pin-2(3)-ene	Not fulfilling PBT and vPvB criteria

12.6 Endocrine Disrupting Properties : The mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties

12.7 Other adverse effects : None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Disposal should be in accordance with local, state or national legislation.
Please recycle empty packaging.

Packaging : Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

	Land transport	Sea transport	Air transport
14.1 UN number or ID number	1950	1950	1950
14.2 UN proper shipping name	AEROSOLS, Flammable	AEROSOLS, Flammable	AEROSOLS, Flammable
14.3 Transport hazard class(es)	2	2	2.1
14.4 Packing group			
14.5 Environmental hazards			
14.6 Special precautions for user	Limited quantities derogation may be applicable to this product, please check transport documents.Exempted from ADR Conform 3.3.1 Special provision 190.	Limited quantities derogation may be applicable to this product, please check transport documents.Exempted from IMDG Conform 3.3.1 Special provision 190.	Limited quantities derogation may be applicable to this product, please check transport documents.
14.7 Maritime transport in bulk according to IMO instruments	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture : This safety datasheet complies with the requirements of:

Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 (CLP) as amended (not applicable to cosmetics)

Regulation (EC) No. 528/2012 as amended (applicable to biocidal products)

Directive (EEC) No. 75/324 as amended (applicable to aerosols)

Regulation (EC) No. 1223/2009 amended (applicable to cosmetic products)

Regulation (EC) No. 684/2001 The surfactants contained in this preparation comply with the biodegradability criteria laid down in Regulation (EC) No.648/2004 for detergents (applicable to detergents).

Directive (EC) No. 2001/95/EC - General Product Safety Directive

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Directive 2012/18/EU Seveso

Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

SZW list of carcinogenic, mutagenic and reproductively toxic substances

15.2 Chemical safety assessment : Not required for consumer products.

SECTION 16: OTHER INFORMATION

If applicable, revision(s) are noted by the bold bars || in left-hand margin.

Key abbreviations or acronyms used

EC - European Community
EEC – European Economic Community
CLP – Classification Labelling & Packaging
EN – European Standard or European Norm
PBT – Persistent, Bioaccumulative & Toxic
vPvB – very persistent, very bioaccumulative
UN – United Nations

Evaluation methods

Unless otherwise stated in section 11, the procedure used to derive the human health classification is the relevant calculation method according to CLP regulation (EC) No 1272/2008 as amended.

Unless otherwise stated in section 12, the procedure used to derive the environmental classification is the summation of the classified components method according to CLP regulation (EC) No 1272/2008 as amended.

Full text of H-Statements

H225	Highly flammable liquid and vapour.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.