

Safety Data Sheet

according to Regulation (EC) No 1907/2006

5295 Turbo air refresher Laundry 75 ml

Revision date: 06.02.2024

Product code: 70602

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

1.1. Product identifier

5295 Turbo air refresher Laundry 75 ml

UFI: 2HH9-E62Y-8004-7D56

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

Use of the substance/mixture

AIR FRESHENERS AEROSOL (aqueous, non-aqueous, concentrated (mini-aerosol)) for consumer use

1.3. Details of the supplier of the safety data sheet

Company name: Kisling (Deutschland) GmbH
Street: Salzstraße 15
Place: D-74676 Niedernhall
Telephone: +49 7940 50961 61
E-mail: technical.support@kisling.com
Contact person: Dr. Hans Götz Telephone: +49 7940 5096 143
E-mail: compliance@kisling.com
Internet: www.kisling.com

1.4. Emergency telephone number:

24 hr. emergency phone number +1 872 5888271 (KAR)
Medicines & Poisons Info Office +356 2545 6508

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aerosol 1; H222-H229
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling of certain mixtures

EUH208 Contains Hexyl salicylate, Octahydro tetramethyl acetone, 2-methylundecanal, Dodecanal, 3-P-Cumenyl-2-methylpropionaldehyde, Citronellol. May produce an allergic reaction.

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2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
18479-58-8	2,6-dimethyloct-7-en-2-ol			0.1 - < 1 %
	242-362-4			
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
63500-71-0	cis/trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol			0.1 - < 1 %
	405-040-6		01-0000015458-64	
	Eye Irrit. 2; H319			
6259-76-3	Hexyl salicylate			0.1 - < 1 %
	228-408-6		01-2119638275-36	
	Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410			
54464-57-2	Octahydro tetramethyl acetone			0.1 - < 1 %
	259-174-3			
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 1; H315 H317 H410			
110-41-8	2-methylundecanal			< 0.1 %
	203-765-0			
	Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H315 H317 H400 H410			
103-95-7	3-P-Cumenyl-2-methylpropionaldehyde			< 0.1 %
	203-161-7			
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H317 H412			
112-54-9	Dodecanal			< 0.1 %
	203-983-6			
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
106-22-9	Citronellol			< 0.1 %
			01-2119453995-23	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
18479-58-8	242-362-4	2,6-dimethyloct-7-en-2-ol	0.1 - < 1 %
		oral: LD50 = 4100 mg/kg	
63500-71-0	405-040-6	cis/trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	0.1 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
6259-76-3	228-408-6	Hexyl salicylate	0.1 - < 1 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
54464-57-2	259-174-3	Octahydro tetramethyl acetone	0.1 - < 1 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	
110-41-8	203-765-0	2-methylundecanal	< 0.1 %
		oral: LD50 = > 5000 mg/kg	
103-95-7	203-161-7	3-P-Cumenyl-2-methylpropionaldehyde	< 0.1 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 - < 5000 mg/kg	
112-54-9	203-983-6	Dodecanal	< 0.1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 23100 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection! Never give anything by mouth to an unconscious person or a person with cramps. Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. Remove casualty to fresh air and keep warm and at rest. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label. Put victim at rest, cover with a blanket and keep warm.

After contact with skin

Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Protect uninjured eye. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. Seek medical advice immediately. If unconscious but breathing normally, place in recovery position and seek medical advice. Do NOT induce vomiting.

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

No data available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Foam, Extinguishing powder. Carbon dioxide (CO₂), Dry extinguishing powder, Foam.

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Unsuitable extinguishing media

Water. Full water jet.

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurized container: May burst if heated. Vapours can form explosive mixtures with air. In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of fire and/or explosion do not breathe fumes. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Remove all sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13 Safe handling: see section 7. Personal protection equipment: see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not pierce or burn, even after use. Use only in well-ventilated areas. Keep away from sources of ignition - No smoking. Flammable vapours can accumulate in head space of closed systems. Caution! Transport usually takes place at temperatures above the flash point.

Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse.

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Further information on handling

15 - 35°C

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Do not store together with: Material, oxygen-rich, Oxidising. Pyrophoric or self-heating substances.

Further information on storage conditions

Keep away from heat.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

CAS No	Name of agent		
DNEL type	Exposure route	Effect	Value
18479-58-8	2,6-dimethyloct-7-en-2-ol		
Worker DNEL, long-term	inhalation	systemic	24,7 mg/m ³
Worker DNEL, long-term	dermal	systemic	7 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	4,35 mg/m ³
Consumer DNEL, long-term	dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	2,5 mg/kg bw/day
63500-71-0	cis/trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol		
Worker DNEL, long-term	inhalation	systemic	44,1 mg/m ³
Worker DNEL, long-term	dermal	systemic	41,7 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	13 mg/m ³
Consumer DNEL, long-term	dermal	systemic	25 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	7,5 mg/kg bw/day
6259-76-3	Hexyl salicylate		
Worker DNEL, long-term	inhalation	systemic	1,7 mg/m ³
Worker DNEL, long-term	dermal	systemic	6,4 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,4 mg/m ³
Consumer DNEL, long-term	dermal	systemic	3,2 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,3 mg/kg bw/day
110-41-8	2-methylundecanal		
Worker DNEL, long-term	inhalation	systemic	36,89 mg/m ³
Worker DNEL, acute	inhalation	systemic	352,63 mg/m ³
Worker DNEL, long-term	inhalation	local	92,21 mg/m ³
Worker DNEL, acute	inhalation	local	881,58 mg/m ³
Worker DNEL, long-term	dermal	systemic	10,46 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	100 mg/kg bw/day
Worker DNEL, long-term	dermal	local	35,7 mg/cm ²
Worker DNEL, acute	dermal	local	71,43 mg/cm ²
Consumer DNEL, long-term	inhalation	systemic	9,1 mg/m ³
Consumer DNEL, acute	inhalation	systemic	86,96 mg/m ³
Consumer DNEL, long-term	inhalation	local	22,74 mg/m ³
Consumer DNEL, acute	inhalation	local	217,39 mg/m ³
Consumer DNEL, long-term	dermal	systemic	5,23 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	50 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	17,86 mg/cm ²
Consumer DNEL, acute	dermal	local	35,71 mg/cm ²
Consumer DNEL, long-term	oral	systemic	5,23 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	25 mg/kg bw/day
103-95-7	3-P-Cumenyl-2-methylpropionaldehyde		

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Worker DNEL, long-term	inhalation	systemic	1,23 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,35 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,22 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,13 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,13 mg/kg bw/day
112-54-9	Dodecanal		
Worker DNEL, long-term	inhalation	systemic	49,7 mg/m ³
Worker DNEL, long-term	dermal	systemic	14,1 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	12,3 mg/m ³
Consumer DNEL, long-term	dermal	systemic	7 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	7 mg/kg bw/day
106-22-9	Citronellol		
Worker DNEL, long-term	inhalation	systemic	161,6 mg/m ³
Worker DNEL, long-term	inhalation	local	10 mg/m ³
Worker DNEL, acute	inhalation	local	10 mg/m ³
Worker DNEL, long-term	dermal	systemic	327,4 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	47,8 mg/m ³
Consumer DNEL, long-term	inhalation	local	10 mg/m ³
Consumer DNEL, acute	inhalation	local	10 mg/m ³
Consumer DNEL, long-term	dermal	systemic	196,4 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	13,8 mg/kg bw/day

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
18479-58-8	2,6-dimethyloct-7-en-2-ol	
Freshwater		0,0278 mg/l
Freshwater (intermittent releases)		0,278 mg/l
Marine water		0,00278 mg/l
Freshwater sediment		0,594 mg/kg
Marine sediment		0,059 mg/kg
Secondary poisoning		111 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,103 mg/kg
63500-71-0	cis/trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	
Freshwater		0,094 mg/l
Freshwater (intermittent releases)		0,94 mg/l
Marine water		0,009 mg/l
Freshwater sediment		0,412 mg/kg
Marine sediment		0,041 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,09 mg/kg
6259-76-3	Hexyl salicylate	
Freshwater		0 mg/l
Freshwater (intermittent releases)		0,004 mg/l
Marine water		0 mg/l
Freshwater sediment		0,272 mg/kg
Marine sediment		0,027 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,054 mg/kg
110-41-8	2-methylundecanal	
Freshwater		0,00066 mg/l
Freshwater (intermittent releases)		0,0018 mg/l
Freshwater sediment		0,265 mg/kg
Marine sediment		0,0265 mg/kg
Secondary poisoning		116 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,0526 mg/kg
103-95-7	3-P-Cumenyl-2-methylpropionaldehyde	
Freshwater		0,0088 mg/l
Freshwater (intermittent releases)		0,014 mg/l
Marine water		0,00088 mg/l
Freshwater sediment		1,02 mg/kg
Marine sediment		0,102 mg/kg
Secondary poisoning		2 mg/kg

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Micro-organisms in sewage treatment plants (STP)	1 mg/l
Soil	0,199 mg/kg
112-54-9	Dodecanal
Freshwater	0,004 mg/l
Freshwater (intermittent releases)	0,035 mg/l
Marine water	0 mg/l
Freshwater sediment	1,41 mg/kg
Marine sediment	0,141 mg/kg
Secondary poisoning	313 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,278 mg/kg
106-22-9	Citronellol
Freshwater	0,002 mg/l
Freshwater (intermittent releases)	0,024 mg/l
Marine water	0 mg/l
Freshwater sediment	0,026 mg/kg
Marine sediment	0,003 mg/kg
Micro-organisms in sewage treatment plants (STP)	580 mg/l
Soil	0,004 mg/kg

Additional advice on limit values

SECTION 16: Other information

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Thickness of the glove material >0,4 mm / > 480 min

Skin protection

Wear suitable protective clothing. Filter A/P 2

Respiratory protection

In case of inadequate ventilation wear respiratory protection. In case of inadequate ventilation wear respiratory protection.

Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing

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Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	colourless	
Odour:	characteristic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		-42 °C
Flammability:		not applicable
Lower explosion limits:		not applicable
Upper explosion limits:		1,9 vol. %
Flash point:		13,5 vol. %
Auto-ignition temperature:		-88,6 °C
Decomposition temperature:		-95 °C
pH-Value:		not determined
Viscosity / kinematic:		not applicable
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Solubility in other solvents:		not determined
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density (at 20 °C):		0,61 g/cm ³
Relative vapour density:		not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

Heating may cause an explosion. Heating causes rise in pressure with risk of bursting.

Sustaining combustion:

No data available

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate: not applicable

Solid content: not determined

Viscosity / dynamic: not determined

Further Information

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurized container: May burst if heated. No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

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The product is stable under storage at normal ambient temperatures.
Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Keep away from heat. Keep away from sources of ignition - No smoking.

10.5. Incompatible materials

Materials to avoid: .

10.6. Hazardous decomposition products

Carbon dioxide (CO₂). Carbon monoxide

Further information

No data available

SECTION 11: Toxicological information

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

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
18479-58-8	2,6-dimethyloct-7-en-2-ol				
	oral	LD50 4100 mg/kg	Rat	Study report (1977)	No information available.
63500-71-0	cis/trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1992)	EU Method B.1
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1985)	OECD Guideline 402
6259-76-3	Hexyl salicylate				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1975)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1975)	OECD Guideline 402
54464-57-2	Octahydro tetramethyl acetone				
	oral	LD50 >5000 mg/kg	Rat	Pre-supplier/manufacturer	OECD 401
	dermal	LD50 >5000 mg/kg	Rat	Pre-supplier/manufacturer	OECD 402
110-41-8	2-methylundecanal				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1971)	10 rats received doses of the test mater
103-95-7	3-P-Cumenyl-2-methylpropionaldehyde				
	oral	LD50 > 2000 - < 5000 mg/kg	Rat	Study report (1978)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rat	Study report (1980)	Rats acutely dermally exposed to test ma
112-54-9	Dodecanal				
	oral	LD50 23100 mg/kg	Rat	Study report (1971)	Rats fed three dose levels of test mater
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1971)	Test material applied to skin of 4 rabbi

Irritation and corrosivity

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

Sensitising effects

Contains Hexyl salicylate, Octahydro tetramethyl acetone, 2-methylundecanal, Dodecanal, 3-P-Cumenyl-2-methylpropionaldehyde, Citronellol. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects 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.

Specific effects in experiment on an animal

No data available

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Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards

Other information

No data available

Further information

sensitising

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects. No data available

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
18479-58-8	2,6-dimethyloct-7-en-2-ol					
	Acute fish toxicity	LC50 mg/l	27,8	96 h	Oncorhynchus mykiss	REACH Registration Dossier
	Acute algae toxicity	ErC50	80 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier
	Acute crustacea toxicity	EC50	38 mg/l	48 h	Daphnia magna	REACH Registration Dossier
	Crustacea toxicity	NOEC	9,5 mg/l	21 d	Daphnia magna	REACH Registration Dossier
	Acute bacteria toxicity	(EC50 mg/l)	> 100	0.5 h	Activated sludge	REACH Registration Dossier
63500-71-0	cis/trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol					
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	Study report (2006)
	Acute crustacea toxicity	EC50 mg/l	ca. 320	48 h	Daphnia magna	Study report (1996)
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	activated sludge of a predominantly domestic sewage	Study report (2007)
6259-76-3	Hexyl salicylate					
	Acute algae toxicity	ErC50 mg/l	0,61	72 h	Desmodesmus subspicatus	REACH Registration Dossier
110-41-8	2-methylundecanal					
	Acute algae toxicity	ErC50 mg/l	0,11	72 h	Raphidocelis subcapitata	Study report (2013)
	Acute crustacea toxicity	EC50 mg/l	0,21	48 h	Daphnia magna	Study report (2013)
	Crustacea toxicity	NOEC mg/l	0,033	21 d	Daphnia magna	Study report (2019)
103-95-7	3-P-Cumenyl-2-methylpropionaldehyde					
	Aquatic toxicity	Data lacking				
112-54-9	Dodecanal					
	Acute fish toxicity	LC50 mg/l	ca. 2,6	96 h	Oncorhynchus mykiss	Study report (1993)
	Acute algae toxicity	ErC50 mg/l	> 0,048	72 h	Raphidocelis subcapitata	Study report (2013)
	Acute crustacea toxicity	EC50 mg/l	> 0,27	48 h	Daphnia magna	Study report (2012)
106-22-9	Citronellol					
	Acute fish toxicity	LC50 mg/l	14,66	96 h	Leuciscus idus	Study report (1989)
	Acute algae toxicity	ErC50	2,4 mg/l	72 h		Study report (1990)
						other: German standard DIN 38 412, part
						Algae inhibition test supported by the U

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	Acute crustacea toxicity	EC50 mg/l	17,48	48 h	Daphnia magna	Study report (1989)	other: EU Directive 79/831/EEC, Annex V,
	Acute bacteria toxicity	(EC50 mg/l)	> 10000	0.5 h	Pseudomonas putida	Study report (1988)	other: German standard, DIN 38412 Part 2

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
18479-58-8	2,6-dimethyloct-7-en-2-ol	3,25
63500-71-0	cis/trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	ca. 1,65
6259-76-3	Hexyl salicylate	5,5
110-41-8	2-methylundecanal	4,9
103-95-7	3-P-Cumenyl-2-methylpropionaldehyde	3,4
112-54-9	Dodecanal	4,9
106-22-9	Citronellol	3,41

BCF

CAS No	Chemical name	BCF	Species	Source
18479-58-8	2,6-dimethyloct-7-en-2-ol	64,8		REACH Registration D
6259-76-3	Hexyl salicylate	8913	Please see below	Handbook of Chemical
110-41-8	2-methylundecanal	2917		Journal of Fisheries
103-95-7	3-P-Cumenyl-2-methylpropionaldehyde	155		Journal of Fisheries
112-54-9	Dodecanal	323		QSAR and Combinatori
106-22-9	Citronellol	82,59		EPIWIN calculation (

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

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160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Hazard label: 2.1

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Special Provisions: 63, 190, 277, 327, 344, 381, 959
Limited quantity: 1000 mL
Excepted quantity: E0
EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, FLAMMABLE
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Hazard label: 2.1



Special Provisions: A145 A167 A802
Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Flammable gases. Achtung: Gase

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2010/75/EU (VOC): 99,097 % (609,444 g/l)
Information according to 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

Additional information

Regulation (EC) No. 648/2004 [Detergents regulation].
Aerosol Directive (75/324/).

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information

Abbreviations and acronyms

CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
Aerosol: Aerosols
Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.

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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.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Hexyl salicylate, Octahydro tetramethyl acetone, 2-methylundecanal, Dodecanal, 3-P-Cumenyl-2-methylpropionaldehyde, Citronellol. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	AIR FRESHENERS AEROSOL (aqueous, non-aqueous, concentrated (mini-aerosol)) for consumer use	PW, C	0	3, 28	8a, 8b, 9	11a	0	37, 63	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)