SAFETY DATA SHEET

Version #: 01
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture	REFILL CAR AIR FRESHENER ICON - COLD WATER 17RCCW
Registration number	-
Synonyms	None.
Product code	17RCCW

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

Identified uses	General Public
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	Home Fragrance Italia
Address	Via A. Tonale 26 Milano 20125 IT
Division	
Telephone	
e-mail	Not available.
Contact person	Not available.

1.4. Emergency telephone number

1.4. Emergency telephone number

General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Austria National Poisons Information Centre	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Belgium National Poisons Control Centre	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Bulgaria National Toxicological Information Centre	+359 2 9154233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Czech Republic National Poisons Information Centre	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Denmark National Poisons Control Centre	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Estonia National Poisons Information Centre	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
Finland National Poison Information Centre	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
France National Poisons Control Centre	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Hungary National Emergency Phone Number	36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

1.4. Emergency telephone number

Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Centre (NVIC)	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Centre	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Portugal Poison Centre	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Slovakia National Toxicological Information Centre	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Sweden National Poison Information Centre	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Switzerland Tox Info Suisse	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Skin sensitisation	Category 1A	H317 - May cause an allergic skin reaction.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: (-)-Pin-2(3)-ene, 1-(2,3,8,8-tetramethyl-1,3,4,6,7,8a-hexahydronaphthalen-2-yl)ethanone, 1-(2,3,8,8-tetramethyl-1,3,5,6,7,8a-hexahydronaphthalen-2-yl)ethanone, 2,4-Dimethyl-3-cyclohexene carboxaldehyde, 3-Octanol, 3,7-dimethyl-, Alpha-isomethyl ionone, alpha-Pinene, beta-Caryophyllene, beta-Pinene, Citral, Citronellol, Citronellyl formate, Cyclohexene, 1-methyl-4-(1-methylethylidene)-, d-Limonene, Eucalyptol, Eucalyptus globulus, ext., Geraniol, Geranyl acetate, Isocyclemone E, Lavender, Lavandula hybrida grosso, ext., Linalool, Linalyl acetate, Lyral, Nopyl acetate, p-mentha-1,3-diene; 1-isopropyl-4-methylcyclohexa-1,3-diene; alpha-terpinene, trans-Menthone, trans-Rose Ketone-1, trans-Rose Ketone-2

Hazard pictograms

Signal word Warning

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P102	Keep out of reach of children.

Response

P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P302 + P352	IF ON SKIN: Wash with plenty of water/.

Storage Not applicable.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2,6-Dimethyl-7-octen-2-ol	5 - 10	18479-58-8 242-362-4	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319					
d-Limonene	3 - 5	5989-27-5 227-813-5	-	601-096-00-2	
Classification: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400(M=1), Aquatic Chronic 3;H412					
Acetic acid, 2-(3-methylbutoxy)-, 2-propen-1-yl ester	1 - 3	67634-00-8 266-803-5	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Skin Irrit. 2;H315					
Alpha-isomethyl ionone	1 - 3	127-51-5 204-846-3	-	-	
Classification: Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
Linalyl acetate	1 - 3	115-95-7 204-116-4	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
Lyral	1 - 3	31906-04-4 250-863-4	-	605-040-00-8	
Classification: Skin Sens. 1A;H317					
Oxacyclohexadecen-2-one	1 - 3	34902-57-3 -	-	-	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
1-(2,3,8,8-tetramethyl-1,3,4,6,7,8a-hexahydronaphthalen-2-yl)ethanone	≤ 1	68155-67-9 268-979-9	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 1;H410					
1-(2,3,8,8-tetramethyl-1,3,5,6,7,8a-hexahydronaphthalen-2-yl)ethanone	≤ 1	68155-66-8 268-978-3	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 1;H410					
1,4-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	≤ 1	99-85-4 202-794-6	-	-	
Classification: Flam. Liq. 3;H226, Repr. 2;H361, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
2,4-Dimethyl-3-cyclohexene carboxaldehyde	≤ 1	68039-49-6 268-264-1	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
Acetic acid ethenyl ester	≤ 1	108-05-4 203-545-4	-	607-023-00-0	#
Classification: Flam. Liq. 2;H225, Acute Tox. 4;H332;(ATE: 11 mg/l), Carc. 2;H351, STOT SE 3;H335, Aquatic Chronic 3;H412					
beta-Pinene	≤ 1	127-91-3 204-872-5	-	-	
Classification: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Carbon black	≤ 1	1333-86-4 215-609-9	-	-	
Classification: Carc. 2;H351					
Citral	≤ 1	5392-40-5 226-394-6	-	605-019-00-3	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Isocyclemone E	≤ 1	54464-57-2 259-174-3	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 1;H410					
Lavender, Lavandula hybrida grosso, ext.	≤ 1	93455-97-1 297-385-2	-	-	
Classification: Eye Irrit. 2;H319, Skin Sens. 1B;H317, Aquatic Chronic 3;H412					
Nopyl acetate	≤ 1	128-51-8 204-891-9	-	-	
Classification: Eye Irrit. 2;H319, Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
(-)-Pin-2(3)-ene	≤ 0,2	7785-26-4 232-077-3	-	-	
Classification: Flam. Liq. 3;H226, Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Skin Irrit. 2;H315, Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
1,6-Octadiene, 7-methyl-3-methylene-	≤ 0,2	123-35-3 204-622-5	-	-	
Classification: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
3-Octanol, 3,7-dimethyl-	≤ 0,2	78-69-3 201-133-9	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
alpha-Pinene	≤ 0,2	80-56-8 201-291-9	-	-	
Classification: Flam. Liq. 3;H226, Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Skin Irrit. 2;H315, Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Benzene, 1-methyl-4-(1-methylethyl)-	≤ 0,2	99-87-6 202-796-7	-	601-094-00-1	
Classification: Flam. Liq. 3;H226, Acute Tox. 3;H331;(ATE: 3 mg/l), Repr. 2;H361, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
beta-Caryophyllene	≤ 0,2	87-44-5 201-746-1	-	-	
Classification: Eye Irrit. 2;H319, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene-	≤ 0,2	79-92-5 201-234-8	-	-	
Classification: Flam. Sol. 2;H228, Eye Irrit. 2;H319, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Citronellol	≤ 0,2	106-22-9 203-375-0	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Citronellyl formate	≤ 0,2	105-85-1 203-338-9	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317					
Cyclohexene, 1-methyl-4-(1-methylethylidene)-	≤ 0,2	586-62-9 209-578-0	-	-	
Classification: Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
decyl acetate	≤ 0,2	112-17-4 203-942-2	-	-	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Eucalyptol	≤ 0,2	470-82-6 207-431-5	-	-	
Classification: Flam. Liq. 3;H226, Eye Irrit. 2;H319, Skin Sens. 1B;H317					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Eucalyptus globulus, ext.	≤ 0,2	84625-32-1 283-406-2	-	-	
Classification: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Skin Sens. 1;H317, Repr. 2;H361, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Geraniol	≤ 0,2	106-24-1 203-377-1	-	603-241-00-5	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
Geranyl acetate	≤ 0,2	105-87-3 203-341-5	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
Linalool	≤ 0,2	78-70-6 201-134-4	-	603-235-00-2	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
Ocimene	≤ 0,2	13877-91-3 237-641-2	-	-	
Classification: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	≤ 0,2	128-37-0 204-881-4	-	-	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
p-mentha-1,3-diene; 1-isopropyl-4-methylcyclohexa-1,3-diene; alpha-terpinene	≤ 0,2	99-86-5 202-795-1	-	601-095-00-7	
Classification: Flam. Liq. 3;H226, Acute Tox. 4;H302;(ATE: 1680 mg/kg bw), Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
trans-Menthone	≤ 0,2	89-80-5 201-941-1	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 3;H412					
trans-Rose Ketone-1	≤ 0,2	24720-09-0 246-430-4	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
trans-Rose Ketone-2	≤ 0,2	23726-91-2 245-842-1	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
Other components below reportable levels	73,3				

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.
M: M-factor
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. #: This substance has been assigned Union workplace exposure limit(s).

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

For emergency responders Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2. Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	MAK	5 mg/m3	Inhalable dust.
	STEL	10 mg/m3	Inhalable dust.
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	MAK	10 mg/m3	

Austria. TRK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	TWA	17,6000000000000 014 mg/m3
		5 ppm

Belgium. Exposure Limit Values

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3	
		10 ppm	
	TWA	17,6000000000000 014 mg/m3	
		5 ppm	
alpha-Pinene (CAS 80-56-8)	TWA	20 ppm	
beta-Pinene (CAS 127-91-3)	TWA	20 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	
Citral (CAS 5392-40-5)	TWA	32 mg/m3	Vapour and aerosol.
		5 ppm	Vapour and aerosol.
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TWA	2 mg/m3	Vapour and aerosol.

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3
		10 ppm
	TWA	17,6000000000000 014 mg/m3
		5 ppm
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	STEL	50 mg/m3
	TWA	10 mg/m3

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	MAC	17,6000000000000 014 mg/m3
		5 ppm
	STEL	35,2000000000000 028 mg/m3
		10 ppm
Carbon black (CAS 1333-86-4)	MAC	3,5 mg/m3
	STEL	7 mg/m3
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	MAC	10 mg/m3

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	TWA	30 mg/m3
		10 ppm
Carbon black (CAS 1333-86-4)	TWA	3,5 mg/m3

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	Ceiling	36 mg/m3	
	TWA	18 mg/m3	
Carbon black (CAS 1333-86-4)	TWA	10 mg/m3	Dust.

Denmark. Exposure Limit Values

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	TLV	18 mg/m3
		5 ppm
alpha-Pinene (CAS 80-56-8)	TLV	25 ppm
Benzene, 1-methyl-4-(1-methylethyl)- (CAS 99-87-6)	TLV	135 mg/m3
		25 ppm
beta-Pinene (CAS 127-91-3)	TLV	25 ppm
Carbon black (CAS 1333-86-4)	TLV	3,5 mg/m3
d-Limonene (CAS 5989-27-5)	TLV	25 ppm
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TLV	10 mg/m3

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3
		10 ppm
	TWA	17,6000000000000 014 mg/m3
		5 ppm
alpha-Pinene (CAS 80-56-8)	STEL	300 mg/m3
		50 ppm
	TWA	150 mg/m3
		25 ppm
Benzene, 1-methyl-4-(1-methylethyl)- (CAS 99-87-6)	STEL	190 mg/m3
		35 ppm
	TWA	140 mg/m3
		25 ppm
beta-Pinene (CAS 127-91-3)	STEL	300 mg/m3
		50 ppm
	TWA	150 mg/m3
		25 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35 mg/m3
		10 ppm
	TWA	18 mg/m3
		5 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3
	TWA	3,5 mg/m3
d-Limonene (CAS 5989-27-5)	STEL	280 mg/m3
		50 ppm
	TWA	140 mg/m3
		25 ppm
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	STEL	20 mg/m3
	TWA	10 mg/m3

France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	VLE	35,2000000000000 028 mg/m3
		10 ppm
	VME	17,6000000000000 014 mg/m3
		5 ppm

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	VLE	35,2000000000000 028 mg/m3
Regulatory status: Regulatory binding (VRC)		
		10 ppm
Regulatory status: Regulatory binding (VRC)		
	VME	17,6000000000000 014 mg/m3
Regulatory status: Regulatory binding (VRC)		
		5 ppm
Regulatory status: Regulatory binding (VRC)		
Carbon black (CAS 1333-86-4)	VME	3,5 mg/m3
Regulatory status: Indicative limit (VL)		
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	VME	10 mg/m3
Regulatory status: Indicative limit (VL)		

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	TWA	36 mg/m3	
		10 ppm	
d-Limonene (CAS 5989-27-5)	TWA	28 mg/m3	
		5 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TWA	10 mg/m3	Vapor and aerosol, inhalable fraction.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	AGW	36 mg/m3	
		10 ppm	

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
Benzene, 1-methyl-4-(1-methylethyl)- (CAS 99-87-6)	AGW	100 mg/m3	
d-Limonene (CAS 5989-27-5)	AGW	28 mg/m3	
		5 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	AGW	10 mg/m3	Inhalable fraction.

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3
		10 ppm
	TWA	17,6000000000000 014 mg/m3
		5 ppm
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3
	TWA	3,5 mg/m3
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TWA	10 mg/m3

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3	
	TWA	17,6000000000000 014 mg/m3	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable dust.

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	TWA	30 mg/m3
		10 ppm
Benzene, 1-methyl-4-(1-methylethyl)- (CAS 99-87-6)	TWA	135 mg/m3
		25 ppm
Carbon black (CAS 1333-86-4)	TWA	3,5 mg/m3
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TWA	10 mg/m3

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3	
		10 ppm	
	TWA	17,6000000000000 014 mg/m3	
		5 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Citral (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapour.

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TWA	2 mg/m3	

Italy. Occupational Exposure Limits

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000028 mg/m3	
		10 ppm	
	TWA	17,6000000000000014 mg/m3	
		5 ppm	
alpha-Pinene (CAS 80-56-8)	TWA	20 ppm	
beta-Pinene (CAS 127-91-3)	TWA	20 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Citral (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapour.
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapour.

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000028 mg/m3
		10 ppm
	TWA	17,6000000000000014 mg/m3
		5 ppm
Benzene, 1-methyl-4-(1-methylethyl)- (CAS 99-87-6)	TWA	10 mg/m3

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000028 mg/m3
		10 ppm
	TWA	17,6000000000000014 mg/m3
		5 ppm
alpha-Pinene (CAS 80-56-8)	STEL	300 mg/m3
		50 ppm
	TWA	150 mg/m3
		25 ppm
Benzene, 1-methyl-4-(1-methylethyl)- (CAS 99-87-6)	STEL	190 mg/m3
		35 ppm
	TWA	140 mg/m3
		25 ppm
beta-Pinene (CAS 127-91-3)	STEL	300 mg/m3
		50 ppm
	TWA	150 mg/m3
		25 ppm

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3
		10 ppm
	TWA	17,6000000000000 014 mg/m3
		5 ppm

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3
		10 ppm
	TWA	17,6000000000000 014 mg/m3
		5 ppm

Netherlands. OELs (binding)

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	36 mg/m3
	TWA	18 mg/m3

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3
		10 ppm
	TLV	17,6000000000000 014 mg/m3
		5 ppm
alpha-Pinene (CAS 80-56-8)	TLV	140 mg/m3
		25 ppm
beta-Pinene (CAS 127-91-3)	TLV	140 mg/m3
		25 ppm
Carbon black (CAS 1333-86-4)	TLV	3,5 mg/m3
d-Limonene (CAS 5989-27-5)	TLV	140 mg/m3
		25 ppm

Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	30 mg/m3	
	TWA	10 mg/m3	
Carbon black (CAS 1333-86-4)	TWA	4 mg/m3	Inhalable fraction.
		0 ppm	Inhalable fraction.
Citral (CAS 5392-40-5)	STEL	54 mg/m3	
	TWA	27 mg/m3	

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3
		10 ppm

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value
	TWA	17,600000000000014 mg/m3
		5 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	15 ppm	
	TWA	10 ppm	
alpha-Pinene (CAS 80-56-8)	TWA	20 ppm	
beta-Pinene (CAS 127-91-3)	TWA	20 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Fume.
Citral (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapour.
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapour.

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,200000000000028 mg/m3
		10 ppm
	TWA	17,600000000000014 mg/m3
		5 ppm

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,200000000000028 mg/m3
		10 ppm
	TWA	17,600000000000014 mg/m3
		5 ppm
Carbon black (CAS 1333-86-4)	TWA	2 mg/m3

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	TWA	17,600000000000014 mg/m3	
		5 ppm	
d-Limonene (CAS 5989-27-5)	TWA	28 mg/m3	
		5 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TWA	10 mg/m3	Inhalable fraction.

Spain. Occupational Exposure Limits

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,200000000000028 mg/m3	
		10 ppm	
	TWA	17,600000000000014 mg/m3	
		5 ppm	

Spain. Occupational Exposure Limits

Components	Type	Value	Form
alpha-Pinene (CAS 80-56-8)	TWA	113 mg/m3	
		20 ppm	
beta-Pinene (CAS 127-91-3)	TWA	113 mg/m3	
		20 ppm	
Carbon black (CAS 1333-86-4)	TWA	3,5 mg/m3	
Citral (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapour.
d-Limonene (CAS 5989-27-5)	TWA	168 mg/m3	
		30 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TWA	10 mg/m3	

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	Ceiling	35 mg/m3	
		10 ppm	
	TWA	18 mg/m3	
		5 ppm	
alpha-Pinene (CAS 80-56-8)	STEL	300 mg/m3	
		50 ppm	
	TWA	150 mg/m3	
		25 ppm	
Benzene, 1-methyl-4-(1-methylethyl)- (CAS 99-87-6)	STEL	190 mg/m3	
		35 ppm	
	TWA	140 mg/m3	
		25 ppm	
beta-Pinene (CAS 127-91-3)	STEL	300 mg/m3	
		50 ppm	
	TWA	150 mg/m3	
		25 ppm	
Carbon black (CAS 1333-86-4)	TWA	5 mg/m3	Inhalable dusts and mists.
		1 mg/m3	Inhalable dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35 mg/m3	
		10 ppm	
	TWA	35 mg/m3	
		10 ppm	
alpha-Pinene (CAS 80-56-8)	STEL	224 mg/m3	
		40 ppm	
	TWA	112 mg/m3	
		20 ppm	
beta-Pinene (CAS 127-91-3)	STEL	224 mg/m3	

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
		40 ppm	
	TWA	112 mg/m3	
		20 ppm	
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene- (CAS 79-92-5)	STEL	224 mg/m3	
		40 ppm	
	TWA	112 mg/m3	
		20 ppm	
d-Limonene (CAS 5989-27-5)	STEL	80 mg/m3	
		14 ppm	
	TWA	40 mg/m3	
		7 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	STEL	40 mg/m3	Vapor and aerosol, inhalable.
	TWA	10 mg/m3	Vapor and aerosol, inhalable.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3
		10 ppm
	TWA	17,6000000000000 014 mg/m3
		5 ppm
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3
	TWA	3,5 mg/m3
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	TWA	10 mg/m3

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

Components	Type	Value
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000 028 mg/m3
		10 ppm
	TWA	17,6000000000000 014 mg/m3
		5 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

Belgium OELs: Skin designation

Citral (CAS 5392-40-5) Can be absorbed through the skin.

Germany DFG MAK (advisory): Skin designation

Acetic acid ethenyl ester (CAS 108-05-4) Can be absorbed through the skin.
d-Limonene (CAS 5989-27-5) Can be absorbed through the skin.

Germany TRGS 900 Limit Values: Skin designation

Acetic acid ethenyl ester (CAS 108-05-4) Can be absorbed through the skin.
d-Limonene (CAS 5989-27-5) Can be absorbed through the skin.

Italy OELs: Skin designation

Citral (CAS 5392-40-5)	Danger of cutaneous absorption

Malta OELs: Skin designation

Acetic acid ethenyl ester (CAS 108-05-4)	Can be absorbed through the skin.

Norway Exposure Limit Values: Skin designation

alpha-Pinene (CAS 80-56-8)	Can be absorbed through the skin.

Portugal VLEs Norm on Occupational Exposure: Skin designation

Citral (CAS 5392-40-5)	Can be absorbed through the skin.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

d-Limonene (CAS 5989-27-5)	Can be absorbed through the skin.

Spain OELs: Skin designation

Citral (CAS 5392-40-5)	Can be absorbed through the skin.
d-Limonene (CAS 5989-27-5)	Can be absorbed through the skin.

Switzerland SUVA Limit Values at the Workplace: Skin designation

alpha-Pinene (CAS 80-56-8)	Can be absorbed through the skin.
beta-Pinene (CAS 127-91-3)	Can be absorbed through the skin.
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene- (CAS 79-92-5)	Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection: Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

- Hand protection: Wear appropriate chemical resistant gloves.

- Other: Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Environmental exposure controls: Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Form	Solid.
Colour	Not available.
Odour	Not available.
Melting point/freezing point	3 °C (37,4 °F) estimated
Boiling point or initial boiling point and boiling range	Not available.
Flammability	Not available.
Flash point	>100 °C (>212 °F)
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.

Solubility

Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	0,042476 hPa estimated

Density and/or relative density

Density	0,891 g/cm3 estimated
Vapour density	Not available.
Particle characteristics	Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes	No relevant additional information available.

9.2.2. Other safety characteristics

Percent volatile	0,3 % estimated
Specific gravity	0,89129 estimated

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

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

Acute toxicity

Components	Species	Test Results
Acetic acid ethenyl ester (CAS 108-05-4)		
Acute		
Dermal		
LD50	Rabbit	2335 mg/kg
Oral		
LD50	Rat	2920 mg/kg
Carbon black (CAS 1333-86-4)		
Acute		
Oral		
LD50	Rat	> 8000 mg/kg

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Acetic acid ethenyl ester (CAS 108-05-4)

IARC Monographs. Overall Evaluation of Carcinogenicity

1,6-Octadiene, 7-methyl-3-methylene- (CAS 123-35-3)	2B Possibly carcinogenic to humans.
Acetic acid ethenyl ester (CAS 108-05-4)	2B Possibly carcinogenic to humans.
Carbon black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
d-Limonene (CAS 5989-27-5)	3 Not classifiable as to carcinogenicity to humans.
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	3 Not classifiable as to carcinogenicity to humans.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Acetic acid ethenyl ester (CAS 108-05-4)	Carcinogenic, Category 2.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance information No information available.

11.2. Information on other hazards

Endocrine disrupting properties The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Components		Species	Test Results
Acetic acid ethenyl ester (CAS 108-05-4)			
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	15 mg/l, 96 hours
Benzene, 1-methyl-4-(1-methylethyl)- (CAS 99-87-6)			
Aquatic			
Acute			
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	36 - 64 mg/l, 96 hours
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene- (CAS 79-92-5)			
Aquatic			
Acute			
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	1,6 - 2,2 mg/l, 96 hours
d-Limonene (CAS 5989-27-5)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia pulex)	69,6 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0,619 - 0,796 mg/l, 96 hours
Eucalyptol (CAS 470-82-6)			
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	95,4 - 109 mg/l, 96 hours
Geraniol (CAS 106-24-1)			
Aquatic			
Acute			
Fish	LC50	Brown trout (Salmo trutta)	2,3 - 3 mg/l, 96 hours

Components	Species	Test Results
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)		
Aquatic		
Acute		
Crustacea	EC50 Water flea (Daphnia pulex)	1,44 mg/l, 48 hours

12.2. Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)	
1,4-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	5,4
1,6-Octadiene, 7-methyl-3-methylene-	4,33
2,6-Dimethyl-7-octen-2-ol	3,25
3-Octanol, 3,7-dimethyl-	3,3
Acetic acid ethenyl ester	0,73
Alpha-isomethyl ionone	4,288
alpha-Pinene	4,83
Benzene, 1-methyl-4-(1-methylethyl)-	4,1
beta-Caryophyllene	6,23
beta-Pinene	4,16
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene-	4,22
Citral	2,76 3,45
Citronellol	3,41
Cyclohexene, 1-methyl-4-(1-methylethylidene)-	4,47
d-Limonene	4,57
Eucalyptol	2,74
Geraniol	3,56
Geranyl acetate	4,04
Linalool	2,97
Linalyl acetate	3,9 3,93
Ocimene	5,4
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	5,1 5,2
trans-Menthone	2,295
trans-Rose Ketone-1	3,66
trans-Rose Ketone-2	3,68

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting properties The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8. Additional information

Estonia Dangerous substances in soil Data

Citronellol (CAS 106-22-9)	Chemical pesticides (As the total sum of the active substances) 0,5 mg/kg Chemical pesticides (As the total sum of the active substances) 20 mg/kg Chemical pesticides (As the total sum of the active substances) 5 mg/kg
Geraniol (CAS 106-24-1)	Chemical pesticides (As the total sum of the active substances) 0,5 mg/kg Chemical pesticides (As the total sum of the active substances) 20 mg/kg Chemical pesticides (As the total sum of the active substances) 5 mg/kg
Geranyl acetate (CAS 105-87-3)	Chemical pesticides (As the total sum of the active substances) 0,5 mg/kg Chemical pesticides (As the total sum of the active substances) 20 mg/kg Chemical pesticides (As the total sum of the active substances) 5 mg/kg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Hazard No. (ADR)	90
Tunnel restriction code	E
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN3077
14.2. UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
ERG Code	9L

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN3077

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MARINE POLLUTANT

14.3. Transport hazard class(es)

Class 9

Subsidiary risk -

14.4. Packing group III

14.5. Environmental hazards

Marine pollutant Yes

EmS F-A, S-F

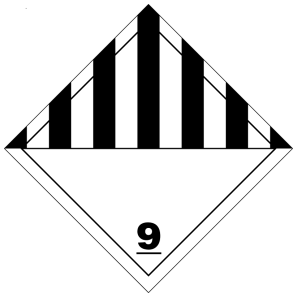
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

d-Limonene

alpha-Pinene

14.7. Maritime transport in bulk according to IMO instruments Not applicable.

ADN; ADR; IATA; IMDG; RID



Marine pollutant

General information IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Carbon black (CAS 1333-86-4)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Geraniol (CAS 106-24-1)
Linalool (CAS 78-70-6)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Acetic acid ethenyl ester (CAS 108-05-4)
Benzene, 1-methyl-4-(1-methylethyl)- (CAS 99-87-6)
d-Limonene (CAS 5989-27-5)
p-mentha-1,3-diene; 1-isopropyl-4-methylcyclohexa-1,3-diene; alpha-terpinene (CAS 99-86-5)

Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MAC: Maximum Allowed Concentration.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TLV: Threshold Limit Value.
TWA: Time Weighted Average.
VLE: Exposure Limit Value.
VME: Exposure Average Value.
vPvB: Very persistent and very bioaccumulative.

References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements, which are not written out in full under sections 2 to 15	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H228 Flammable solid. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation.

H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
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.

Revision information Product and Company Identification: EU Poison Centre

Training information Follow training instructions when handling this material.

Disclaimer Home Fragrance Italia cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.