SAFETY DATA SHEET

Version #: 01
Issue date: 05-April-2023

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

1.1. Product identifier

Trade name or designation of the mixture	CAR AIR FRESHENER ICON "TEXTILE GEOMETRIC" - OXYGEN 17CAR46
Registration number	-
Synonyms	None.
Product code	17CAR46

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 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

UFI:

Austria: 5FRH-1515-M00R-65YK
Belgium: 5FRH-1515-M00R-65YK
Bulgaria: 5FRH-1515-M00R-65YK
Croatia: 5FRH-1515-M00R-65YK
Cyprus: 5FRH-1515-M00R-65YK
Czech Republic: 5FRH-1515-M00R-65YK
Denmark: 5FRH-1515-M00R-65YK
Estonia: 5FRH-1515-M00R-65YK
EU: 5FRH-1515-M00R-65YK
Finland: 5FRH-1515-M00R-65YK
France: 5FRH-1515-M00R-65YK
Germany: 5FRH-1515-M00R-65YK
Great Britain: 5FRH-1515-M00R-65YK
Greece: 5FRH-1515-M00R-65YK
Hungary: 5FRH-1515-M00R-65YK
Iceland: 5FRH-1515-M00R-65YK
Ireland: 5FRH-1515-M00R-65YK
Italy: 5FRH-1515-M00R-65YK
Latvia: 5FRH-1515-M00R-65YK
Lithuania: 5FRH-1515-M00R-65YK
Luxembourg: 5FRH-1515-M00R-65YK
Malta: 5FRH-1515-M00R-65YK
Netherlands: 5FRH-1515-M00R-65YK
Norway: 5FRH-1515-M00R-65YK
Poland: 5FRH-1515-M00R-65YK
Portugal: 5FRH-1515-M00R-65YK
Romania: 5FRH-1515-M00R-65YK
Slovakia: 5FRH-1515-M00R-65YK
Slovenia: 5FRH-1515-M00R-65YK
Spain: 5FRH-1515-M00R-65YK
Sweden: 5FRH-1515-M00R-65YK

Contains: 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, 1,4-Methanonaphthalen-6(2H)-one, octahydro-7-methyl-, 2,4-Dimethyl-3-cyclohexene carboxaldehyde, 3-(o-Ethylphenyl)-2,2-dimethylpropionaldehyde, Allyl cyclohexanepropionate, Alpha-isomethyl ionone, alpha-Pinene, Benzoic acid, 2,4-dihydroxy-3,6-dimethyl-, methyl ester, beta-Pinene, Citral, Citronellol, Cyclododecane, (ethoxymethoxy)-, delta-Damascone, Dihydro pentamethylindanone, d-Limonene, Eugenol, Isocyclemone E, Isoeugenol, Methylenedioxyphenyl methylpropanal

Hazard pictograms

Signal word Warning

Hazard statements

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 + P350 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	1 - 3	18479-58-8 242-362-4	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319					
3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-6-yl propionate	1 - 3	17511-60-3 241-514-7	-	-	
Classification: Aquatic Chronic 2;H411					
d-Limonene	1 - 3	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					
Isocyclemone E	1 - 3	54464-57-2 259-174-3	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 1;H410					
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					
3-(o-Ethylphenyl)-2,2-dimethylpropionaldehyde	≤ 1	67634-14-4 266-818-7	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Acute 1;H400, Aquatic Chronic 2;H411					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
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					
Allyl cyclohexanepropionate	≤ 1	2705-87-5 220-292-5	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Acute Tox. 4;H332;(ATE: 11 mg/l), Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Alpha-isomethyl ionone	≤ 1	127-51-5 204-846-3	-	-	
Classification: Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
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					
Cyclododecane, (ethoxymethoxy)-	≤ 1	58567-11-6 261-332-1	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
Dihydro pentamethylindanone	≤ 1	33704-61-9 251-649-3	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
Methylenedioxyphenyl methylpropanal	≤ 1	1205-17-0 214-881-6	-	-	
Classification: Skin Sens. 1B;H317, Repr. 2;H361, Aquatic Chronic 2;H411					
Oxacyclohexadecen-2-one	≤ 1	34902-57-3 -	-	-	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
1,4-Methanonaphthalen-6(2H)-one, octahydro-7-methyl-	≤ 0,2	41724-19-0 255-517-6	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg), Acute Tox. 4;H312;(ATE: 1100 mg/kg), Skin Sens. 1B;H317, Aquatic Chronic 3;H412					
2,4-Dimethyl-3-cyclohexene carboxaldehyde	≤ 0,2	68039-49-6 268-264-1	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
alpha-Cedrene	≤ 0,2	469-61-4 207-418-4	-	-	
Classification: Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
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					
Benzoic acid, 2,4-dihydroxy-3,6-dimethyl-, methyl ester	≤ 0,2	4707-47-5 225-193-0	-	-	
Classification: Skin Sens. 1B;H317					
beta-Pinene	≤ 0,2	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					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
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					
delta-Damascone	≤ 0,2	57378-68-4 260-709-8	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg), Skin Irrit. 2;H315, Skin Sens. 1A;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Eugenol	≤ 0,2	97-53-0 202-589-1	-	-	
Classification: Eye Irrit. 2;H319, Skin Sens. 1;H317, Asp. Tox. 1;H304					
Isoeugenol	≤ 0,2	97-54-1 202-590-7	-	604-094-00-X	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1A;H317, STOT SE 3;H335					
Specific Concentration Limits: Skin Sens. 1A;H317: C >= 0.01 %					
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					
Other components below reportable levels	84.25				

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.

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 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.

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

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	17,6000000000000014 mg/m3
		5 ppm

Belgium. Exposure Limit Values

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	
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	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-Cedrene (CAS 469-61-4)	TWA	3,5 mg/m3	Inhalable fraction.
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
alpha-Cedrene (CAS 469-61-4)	TWA	0,2 mg/m3
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	
alpha-Cedrene (CAS 469-61-4)	TWA	2 mg/m3	Dust.
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
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

Denmark. Exposure Limit Values

Components	Type	Value
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
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
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)		

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

Components	Type	Value
	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	
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	Form
Acetic acid ethenyl ester (CAS 108-05-4)	TWA	30 mg/m3	
		10 ppm	
alpha-Cedrene (CAS 469-61-4)	TWA	0,2 mg/m3	Particulate.
		0,2 mg/m3	
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	35,2000000000000028 mg/m3	
		10 ppm	
	TWA	17,6000000000000014 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.
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	Form
Acetic acid ethenyl ester (CAS 108-05-4)	STEL	35,2000000000000028 mg/m3	
		10 ppm	
	TWA	17,6000000000000014 mg/m3	
		5 ppm	
alpha-Cedrene (CAS 469-61-4)	TWA	4 mg/m3	Dust.

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

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

Components	Type	Value
		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
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
alpha-Cedrene (CAS 469-61-4)	TWA	550 ng/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-Cedrene (CAS 469-61-4)	TLV	0,04 mg/m3
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

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
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	
alpha-Cedrene (CAS 469-61-4)	TWA	0,002 mg/m3	
		0 ppm	
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	35,2000000000000028 mg/m3
		10 ppm
	TWA	17,6000000000000014 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	35,2000000000000028 mg/m3
		10 ppm
	TWA	17,6000000000000014 mg/m3
		5 ppm
alpha-Cedrene (CAS 469-61-4)	TWA	0,2 mg/m3

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	35,2000000000000028 mg/m3
		10 ppm

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

Components	Type	Value
	TWA	17,6000000000000 014 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	17,6000000000000 014 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	35,2000000000000 028 mg/m3	
		10 ppm	
	TWA	17,6000000000000 014 mg/m3	
		5 ppm	
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	
beta-Pinene (CAS 127-91-3)	STEL	300 mg/m3	
		50 ppm	
	TWA	150 mg/m3	

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

Components	Type	Value	Form
		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	
		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

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling Time
alpha-Cedrene (CAS 469-61-4)	4 umol/mol	1-Hydroxypyrene	Creatinine in urine	*

* - For sampling details, please see the source document.

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

alpha-Cedrene (CAS 469-61-4) Can be absorbed through the skin.
Citral (CAS 5392-40-5) Can be absorbed through the skin.

Croatia ELVs: Skin designation

alpha-Cedrene (CAS 469-61-4) Can be absorbed through the skin.

Denmark GV: Skin designation

alpha-Cedrene (CAS 469-61-4) Can be absorbed through the skin.

EU. OELs from Annex III, Part A to Directive 2004/37/EC: Skin designation

alpha-Cedrene (CAS 469-61-4) Can be absorbed through the skin.

Finland Exposure Limit Values: Skin designation

alpha-Cedrene (CAS 469-61-4) Can be absorbed through the skin.

France INRS: Skin designation

alpha-Cedrene (CAS 469-61-4) 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.
alpha-Cedrene (CAS 469-61-4) 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.

Iceland OELs: Skin designation

alpha-Cedrene (CAS 469-61-4) Can be absorbed through the skin.

Ireland Exposure Limit Values: Skin designation

alpha-Cedrene (CAS 469-61-4) 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.

Netherlands OELs (binding): Skin designation

alpha-Cedrene (CAS 469-61-4) Can be absorbed through the skin.

Norway Exposure Limit Values: Skin designation

alpha-Cedrene (CAS 469-61-4) Can be absorbed through the skin.
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.

Romania OELs: Skin designation

alpha-Cedrene (CAS 469-61-4) Can be absorbed through the skin.

Slovakia OELs for Carcinogens and Mutagens: Skin designation

alpha-Cedrene (CAS 469-61-4) 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.

Sweden Threshold Limit Values: Skin designation

alpha-Cedrene (CAS 469-61-4) 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.

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.

Individual protection measures, such as personal protective equipment

General information	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	0,000125 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

Specific gravity	0,89093 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 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 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 Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye irritation Due to partial or complete lack of data the classification is not possible.

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

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.
Eugenol (CAS 97-53-0)	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
alpha-Cedrene (CAS 469-61-4)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia pulex)	0,044 mg/l, 48 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
Eugenol (CAS 97-53-0)			
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	24 mg/l, 96 hours
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)	
2,6-Dimethyl-7-octen-2-ol	3,25
Acetic acid ethenyl ester	0,73
Allyl cyclohexanepropionate	4,276
Alpha-isomethyl ionone	4,288
alpha-Pinene	4,83
Benzoic acid, 2,4-dihydroxy-3,6-dimethyl-, methyl ester	2,6
beta-Pinene	4,16
Citral	2,76
	3,45
Citronellol	3,41
Cyclododecane, (ethoxymethoxy)-	5,4
delta-Damascone	3,4
	4,2
Dihydro pentamethylindanone	4,2
d-Limonene	4,57
Eugenol	2,49
Isoeugenol	3,04
Methylenedioxyphenyl methylpropanal	2,4
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	5,1
	5,2

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

alpha-Cedrene (CAS 469-61-4)	PAH (Polycyclic aromatic hydrocarbons) (As the total sum of the substances) 20 mg/kg PAH (Polycyclic aromatic hydrocarbons) (As the total sum of the substances) 200 mg/kg PAH (Polycyclic aromatic hydrocarbons) (As the total sum of the substances) 5 mg/kg
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
Eugenol (CAS 97-53-0)	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.

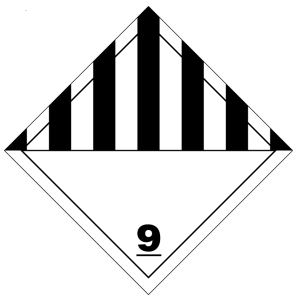
IMDG

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.

UFI:

Austria: 5FRH-1515-M00R-65YK
Belgium: 5FRH-1515-M00R-65YK
Bulgaria: 5FRH-1515-M00R-65YK
Croatia: 5FRH-1515-M00R-65YK
Cyprus: 5FRH-1515-M00R-65YK
Czech Republic: 5FRH-1515-M00R-65YK
Denmark: 5FRH-1515-M00R-65YK
Estonia: 5FRH-1515-M00R-65YK
EU: 5FRH-1515-M00R-65YK
Finland: 5FRH-1515-M00R-65YK
France: 5FRH-1515-M00R-65YK
Germany: 5FRH-1515-M00R-65YK
Great Britain: 5FRH-1515-M00R-65YK
Greece: 5FRH-1515-M00R-65YK
Hungary: 5FRH-1515-M00R-65YK
Iceland: 5FRH-1515-M00R-65YK
Ireland: 5FRH-1515-M00R-65YK
Italy: 5FRH-1515-M00R-65YK
Latvia: 5FRH-1515-M00R-65YK
Lithuania: 5FRH-1515-M00R-65YK
Luxembourg: 5FRH-1515-M00R-65YK
Malta: 5FRH-1515-M00R-65YK
Netherlands: 5FRH-1515-M00R-65YK
Norway: 5FRH-1515-M00R-65YK
Poland: 5FRH-1515-M00R-65YK
Portugal: 5FRH-1515-M00R-65YK
Romania: 5FRH-1515-M00R-65YK
Slovakia: 5FRH-1515-M00R-65YK
Slovenia: 5FRH-1515-M00R-65YK
Spain: 5FRH-1515-M00R-65YK
Sweden: 5FRH-1515-M00R-65YK

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

Isoeugenol (CAS 97-54-1)

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

alpha-Cedrene (CAS 469-61-4)

Other EU regulations

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

Acetic acid ethenyl ester (CAS 108-05-4)
d-Limonene (CAS 5989-27-5)

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.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
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.