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 CAR AIR FRESHENER ICON "CLASSIC" ARGENTO - SILVER SPIRIT 17CARAR

Registration number -

Synonyms None.

Product code 17CARAR

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

Identified uses General Public Use

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 Center 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 Center +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 Center (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 Center 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.)

Malta Accident and Emergency Department 2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

1.4. Emergency telephone number

Netherlands National Poisons Information Center (NVIC)	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Center	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 Center	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 1	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: 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-Pinene, beta-Pinene, Cedryl acetate, Citral, Citronellal, Citronellol, Coumarin, Dihydro pentamethylindanone, d-Limonene, Eugenol, Geraniol, Geranyl acetate, Hexyl Cinnamal, Isocyclemone E, Linalool, Linalyl acetate, Nopyl acetate, Oils, guaiac wood, Oils, turpentine, Pentadecalactone

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

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

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
Linalyl acetate	2,1	115-95-7 204-116-4	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
d-Limonene	1,5	5989-27-5 227-813-5	-	601-029-00-7	
Classification: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					C
Galaxolide	1,5	1222-05-5 214-946-9	-	603-212-00-7	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Isocyclemone E	1,5	54464-57-2 259-174-3	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 1;H410					
Linalool	1,5	78-70-6 201-134-4	-	603-235-00-2	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
Oxacyclohexadecen-2-one	1,5	34902-57-3 -	-	-	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
Carbon black	0,8	1333-86-4 215-609-9	-	-	
Classification: Carc. 2;H351					
1-(2,3,8,8-tetramethyl-1,3,4,6,7,8a-hexahydronaphthalen-2-yl)ethanone	0,6	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	0,6	68155-66-8 268-978-3	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 1;H410					
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	0,6	1506-02-1 216-133-4	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg), Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
1,6-Octadiene, 7-methyl-3-methylene-	0,15	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					
2,4-Dimethyl-3-cyclohexene carboxaldehyde	0,15	68039-49-6 268-264-1	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
3-Octanol, 3,7-dimethyl-	0,15	78-69-3 201-133-9	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
alpha-Pinene	0,15	80-56-8 201-291-9	-	-	
Classification: Flam. Liq. 3;H226, Acute Tox. 4;H302;(ATE: 500 mg/kg), Skin Irrit. 2;H315, Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Benzene, 1,1'-oxybis-	0,15	101-84-8 202-981-2	-	-	#
Classification: Eye Irrit. 2;H319, Aquatic Acute 1;H400, Aquatic Chronic 3;H412					
Benzene, 1-methyl-4-(1-methylethyl)-	0,15	99-87-6 202-796-7	-	-	
Classification: Flam. Liq. 3;H226, Repr. 2;H361, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
beta-Pinene	0,15	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					
Cedryl acetate	0,15	77-54-3 201-036-1	-	-	
Classification: Skin Sens. 1B;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Citral	0,15	5392-40-5 226-394-6	-	605-019-00-3	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317					
Citronellal	0,15	106-23-0 203-376-6	-	-	
Classification: Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
Citronellol	0,15	106-22-9 203-375-0	-	-	
Classification: Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Coumarin	0,15	91-64-5 202-086-7	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg), Skin Sens. 1B;H317					
Dihydro pentamethylindanone	0,15	33704-61-9 251-649-3	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
Eugenol	0,15	97-53-0 202-589-1	-	-	
Classification: Eye Irrit. 2;H319, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Chronic 4;H413					
Geraniol	0,15	106-24-1 203-377-1	-	603-241-00-5	
Classification: 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	0,15	105-87-3 203-341-5	-	-	
Classification: Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
Hexanoic acid, 2-propen-1-yl ester	0,15	123-68-2 204-642-4	-	-	
Classification: Acute Tox. 3;H301;(ATE: 100 mg/kg), Acute Tox. 3;H311;(ATE: 300 mg/kg), Acute Tox. 3;H331;(ATE: 3 mg/l), Aquatic Acute 1;H400, Aquatic Chronic 3;H412					
Hexyl Cinnamal	0,15	101-86-0 202-983-3	-	-	
Classification: Skin Sens. 1B;H317, Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
Nopyl acetate	0,15	128-51-8 204-891-9	-	-	
Classification: Eye Irrit. 2;H319, Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
Oils, guaiac wood	0,15	8016-23-7 616-975-6	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
Oils, turpentine	0,15	8006-64-2 232-350-7	-	650-002-00-6	
Classification: Flam. Liq. 3;H226, Acute Tox. 4;H302;(ATE: 500 mg/kg), Acute Tox. 4;H312;(ATE: 1100 mg/kg), Acute Tox. 4;H332;(ATE: 11 mg/l), Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Pentadecalactone	0,15	106-02-5 203-354-6	-	-	
Classification: Skin Sens. 1B;H317, Aquatic Chronic 2;H411					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	0,15	128-37-0 204-881-4	-	-	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Other components below reportable levels	84.35				

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 Use water spray to cool unopened containers.

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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	MAK	7 mg/m3	Vapour.
		1 ppm	Vapour.
	STEL	14 mg/m3	Vapour.
		2 ppm	Vapour.
Carbon black (CAS 1333-86-4)	MAK	5 mg/m3	Inhalable dust.
	STEL	10 mg/m3	Inhalable dust.
Oils, turpentine (CAS 8006-64-2)	Ceiling	560 mg/m3	
		100 ppm	
	MAK	560 mg/m3	
		100 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)	MAK	10 mg/m3	

Belgium. Exposure Limit Values

Components	Type	Value	Form
alpha-Pinene (CAS 80-56-8)	TWA	20 ppm	
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3	Vapour.
		2 ppm	Vapour.
	TWA	7 mg/m3	Vapour.
		1 ppm	Vapour.
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.
Oils, turpentine (CAS 8006-64-2)	TWA	20 ppm	
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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 ppm
Oils, turpentine (CAS 8006-64-2)	TWA	300 mg/m3

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

Components	Type	Value
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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	MAC	7 mg/m3
		1 ppm
	STEL	14 mg/m3
		2 ppm
Carbon black (CAS 1333-86-4)	MAC	3,5 mg/m3
	STEL	7 mg/m3
Oils, turpentine (CAS 8006-64-2)	MAC	566 mg/m3
		100 ppm
	STEL	850 mg/m3
		150 ppm
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
Carbon black (CAS 1333-86-4)	TWA	3,5 mg/m3

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Benzene, 1,1'-oxybis- (CAS 101-84-8)	Ceiling	20 mg/m3	
	TWA	10 mg/m3	
Carbon black (CAS 1333-86-4)	TWA	10 mg/m3	Dust.
Oils, turpentine (CAS 8006-64-2)	Ceiling	800 mg/m3	Vapour.
	TWA	300 mg/m3	Vapour.

Denmark. Exposure Limit Values

Components	Type	Value
alpha-Pinene (CAS 80-56-8)	TLV	25 ppm
Benzene, 1,1'-oxybis- (CAS 101-84-8)	TLV	7 mg/m3
		1 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
Oils, turpentine (CAS 8006-64-2)	TLV	140 mg/m3
		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
alpha-Pinene (CAS 80-56-8)	STEL	300 mg/m3
		50 ppm
	TWA	150 mg/m3
		25 ppm
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 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
Oils, turpentine (CAS 8006-64-2)	STEL	300 mg/m3
		50 ppm
	TWA	150 mg/m3
		25 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 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
Oils, turpentine (CAS 8006-64-2)	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. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
Benzene, 1,1'-oxybis- (CAS 101-84-8)	VLE	14 mg/m3

Regulatory status: Regulatory indicative (VRI)

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

Components	Type	Value
		2 ppm
Regulatory status:	Regulatory indicative (VRI)	
	VME	7 mg/m3
Regulatory status:	Regulatory indicative (VRI)	
		1 ppm
Regulatory status:	Regulatory indicative (VRI)	
Carbon black (CAS 1333-86-4)	VME	3,5 mg/m3
Regulatory status:	Indicative limit (VL)	
Oils, turpentine (CAS 8006-64-2)	VME	560 mg/m3
Regulatory status:	Indicative limit (VL)	
		100 ppm
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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	TWA	7,1 mg/m3	Vapour.
		1 ppm	Vapour.
d-Limonene (CAS 5989-27-5)	TWA	28 mg/m3	
		5 ppm	
Oils, turpentine (CAS 8006-64-2)	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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	AGW	7,1 mg/m3	Vapour.
		1 ppm	Vapour.
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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 ppm
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3
	TWA	3,5 mg/m3
Oils, turpentine (CAS 8006-64-2)	STEL	840 mg/m3

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

Components	Type	Value
		150 ppm
	TWA	560 mg/m3
		100 ppm
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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3	
	TWA	7 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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 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
Oils, turpentine (CAS 8006-64-2)	TWA	140 mg/m3
		25 ppm
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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3	
		2 ppm	
	TWA	7 mg/m3	
		1 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.
Oils, turpentine (CAS 8006-64-2)	STEL	840 mg/m3	
		150 ppm	
	TWA	112 mg/m3	
		20 ppm	
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
alpha-Pinene (CAS 80-56-8)	TWA	20 ppm	
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3	
		2 ppm	

Italy. Occupational Exposure Limits

Components	Type	Value	Form
	TWA	7 mg/m3	
		1 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.
Oils, turpentine (CAS 8006-64-2)	TWA	20 ppm	
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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 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
alpha-Pinene (CAS 80-56-8)	STEL	300 mg/m3
		50 ppm
	TWA	150 mg/m3
		25 ppm
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 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
Oils, turpentine (CAS 8006-64-2)	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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 ppm

Netherlands. OELs (binding)

Components	Type	Value
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
	TWA	7 mg/m3

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
alpha-Pinene (CAS 80-56-8)	TLV	140 mg/m3
		25 ppm
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TLV	7 mg/m3
		1 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
Oils, turpentine (CAS 8006-64-2)	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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3	
		0 ppm	
	TWA	7 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	
		0 ppm	
	TWA	27 mg/m3	
		0 ppm	
Oils, turpentine (CAS 8006-64-2)	STEL	300 mg/m3	
		0 ppm	
	TWA	112 mg/m3	
		0 ppm	

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

Components	Type	Value
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3

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

Components	Type	Value
		2 ppm
	TWA	7 mg/m3
		1 ppm

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

Components	Type	Value	Form
alpha-Pinene (CAS 80-56-8)	TWA	20 ppm	
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	2 ppm	Vapour.
	TWA	1 ppm	Vapour.
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.
Oils, turpentine (CAS 8006-64-2)	TWA	20 ppm	
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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	10 mg/m3
		1,4 ppm
	TWA	5 mg/m3
		0,7 ppm
Oils, turpentine (CAS 8006-64-2)	STEL	500 mg/m3
	TWA	400 mg/m3

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

Components	Type	Value
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 ppm
Carbon black (CAS 1333-86-4)	TWA	2 mg/m3
Oils, turpentine (CAS 8006-64-2)	STEL	850 mg/m3
		150 ppm
	TWA	560 mg/m3
		100 ppm

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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	TWA	7 mg/m3	Vapour.
		1 ppm	Vapour.
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
alpha-Pinene (CAS 80-56-8)	TWA	113 mg/m3	
		20 ppm	
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14,2 mg/m3	Vapour.
		2 ppm	Vapour.
	TWA	7,1 mg/m3	Vapour.
		1 ppm	Vapour.
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	
Oils, turpentine (CAS 8006-64-2)	TWA	113 mg/m3	
		20 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
alpha-Pinene (CAS 80-56-8)	STEL	300 mg/m3	
		50 ppm	
	TWA	150 mg/m3	
		25 ppm	
Benzene, 1,1'-oxybis- (CAS 101-84-8)	Ceiling	14 mg/m3	
		2 ppm	
	TWA	7 mg/m3	
		1 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.
Oils, turpentine (CAS 8006-64-2)	STEL	300 mg/m3	
		50 ppm	
	TWA	150 mg/m3	
		25 ppm	

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
alpha-Pinene (CAS 80-56-8)	STEL	224 mg/m3	
		40 ppm	
	TWA	112 mg/m3	
		20 ppm	
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3	Vapour and aerosol.
		2 ppm	Vapour and aerosol.
	TWA	7 mg/m3	Vapour and aerosol.
		1 ppm	Vapour and aerosol.
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	
Oils, turpentine (CAS 8006-64-2)	STEL	224 mg/m3	
		40 ppm	
	TWA	112 mg/m3	
		20 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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 ppm
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3
	TWA	3,5 mg/m3
Oils, turpentine (CAS 8006-64-2)	STEL	850 mg/m3
		150 ppm
	TWA	566 mg/m3
		100 ppm
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
Benzene, 1,1'-oxybis- (CAS 101-84-8)	STEL	14 mg/m3
		2 ppm
	TWA	7 mg/m3
		1 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

Austria MAK: Skin designation

Oils, turpentine (CAS 8006-64-2)	Can be absorbed through the skin.

Belgium OELs: Skin designation

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

Croatia ELVs: Skin designation

Oils, turpentine (CAS 8006-64-2)	Can be absorbed through the skin.

Czech Republic PELs: Skin designation

Benzene, 1,1'-oxybis- (CAS 101-84-8)	Can be absorbed through the skin.

Estonia OELs: Skin designation

Oils, turpentine (CAS 8006-64-2)	Can be absorbed through the skin.

Finland Exposure Limit Values: Skin designation

Oils, turpentine (CAS 8006-64-2)	Can be absorbed through the skin.

Germany DFG MAK (advisory): Skin designation

d-Limonene (CAS 5989-27-5)	Can be absorbed through the skin.
Oils, turpentine (CAS 8006-64-2)	Can be absorbed through the skin.

Germany TRGS 900 Limit Values: Skin designation

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

Iceland OELs: Skin designation

Oils, turpentine (CAS 8006-64-2)	Can be absorbed through the skin.

Italy OELs: Skin designation

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

Lithuania OELs: Skin designation

Oils, turpentine (CAS 8006-64-2)	Can be absorbed through the skin.

Norway Exposure Limit Values: Skin designation

alpha-Pinene (CAS 80-56-8)	Can be absorbed through the skin.
Oils, turpentine (CAS 8006-64-2)	Can be absorbed through the skin.

Portugal VLEs Norm on Occupatioinal Exposure: Skin designation

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

Romania OELs: Skin designation

Oils, turpentine (CAS 8006-64-2)	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)

Benzene, 1,1'-oxybis- (CAS 101-84-8)	Can be absorbed through the skin.
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

Oils, turpentine (CAS 8006-64-2)	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.
Oils, turpentine (CAS 8006-64-2)	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 (solid, gas)	Not available.
Flash point	> 100 °C (> 212 °F)
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Vapour pressure	0,000096 hPa estimated
Vapour density	Not available.
Relative 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

Density	0,898 g/cm3 estimated
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Percent volatile	0,6 % estimated
Specific gravity	0,8983 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 toxicological effects

Acute toxicity

Components	Species	Test Results
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)

Not listed.

IARC Monographs. Overall Evaluation of Carcinogenicity

1,6-Octadiene, 7-methyl-3-methylene- (CAS 123-35-3)	2B Possibly carcinogenic to humans.
Carbon black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
Coumarin (CAS 91-64-5)	3 Not classifiable as to carcinogenicity 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.

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
Benzene, 1,1'-oxybis- (CAS 101-84-8)			
Aquatic			
Acute			
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	>= 1,8 - <= 3,2 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
Coumarin (CAS 91-64-5)			
Aquatic			
Acute			
Fish	LC50	Guppy (Poecilia reticulata)	>= 32 - <= 100 mg/l, 96 hours

Components		Species	Test Results
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
Geraniol (CAS 106-24-1)			
Aquatic			
Acute			
Fish	LC50	Brown trout (Salmo trutta)	>= 2,3 - <= 3 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)	
1,6-Octadiene, 7-methyl-3-methylene-	4,33
3-Octanol, 3,7-dimethyl-	3,3
alpha-Pinene	4,83
Benzene, 1,1'-oxybis-	4,21
Benzene, 1-methyl-4-(1-methylethyl)-	4,1
beta-Pinene	4,16
Cedryl acetate	6
Citral	2,76 3,45
Citronellal	3,53 3,62
Citronellol	3,41
Coumarin	1,39
Dihydro pentamethylindanone	4,2
d-Limonene	4,57
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	5,7
Eugenol	2,49
Galaxolide	5,3
Geraniol	3,56
Geranyl acetate	4,04
Hexanoic acid, 2-propen-1-yl ester	3,191
Hexyl Cinnamal	4,686
Linalool	2,97
Linalyl acetate	3,9 3,93
Oils, turpentine	4,16 - 4,83
Pentadecalactone	5,79
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

Citronellal (CAS 106-23-0)	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
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
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.

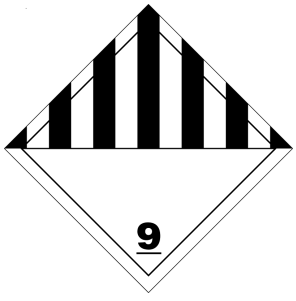
IMDG

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
Oils, turpentine

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

Not listed.

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

d-Limonene (CAS 5989-27-5)
Galaxolide (CAS 1222-05-5)
Oils, turpentine (CAS 8006-64-2)

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 H-statements not written out in full under Sections 2 to 15

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
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.
H413 May cause long lasting harmful effects to aquatic life.

Revision information

Product and Company Identification: Product and Company Identification
SECTION 2: Hazards identification: Prevention
SECTION 2: Hazards identification: Response
SECTION 2: Hazards identification: Storage

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.