SAFETY DATA SHEET

Version #: 01
Issue date: 23-February-2022

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

1.1. Product identifier

Trade name or designation of the mixture	HF-EHF RFTW CLN COTT NL
Registration number	-
Synonyms	None.
Product code	1723617E

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

Company name	Yankee Candle Company (Europe) Limited
Company Address	Poplar Way East, Cabot Park Avonmouth Bristol United Kingdom BS11 0YH

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.)
Netherlands National Poisons Information Center (NVIC)	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)

1.4. Emergency telephone number

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

UFI:

Austria: 9XPA-0JS3-790K-78RW
Belgium: 9XPA-0JS3-790K-78RW
Bulgaria: 9XPA-0JS3-790K-78RW
Croatia: 9XPA-0JS3-790K-78RW
Cyprus: 9XPA-0JS3-790K-78RW
Czech Republic: 9XPA-0JS3-790K-78RW
Denmark: 9XPA-0JS3-790K-78RW
Estonia: 9XPA-0JS3-790K-78RW
EU: 9XPA-0JS3-790K-78RW
Finland: 9XPA-0JS3-790K-78RW
France: 9XPA-0JS3-790K-78RW
Germany: 9XPA-0JS3-790K-78RW
Great Britain: 9XPA-0JS3-790K-78RW
Greece: 9XPA-0JS3-790K-78RW
Hungary: 9XPA-0JS3-790K-78RW
Iceland: 9XPA-0JS3-790K-78RW
Ireland: 9XPA-0JS3-790K-78RW
Italy: 9XPA-0JS3-790K-78RW
Latvia: 9XPA-0JS3-790K-78RW
Lithuania: 9XPA-0JS3-790K-78RW
Luxembourg: 9XPA-0JS3-790K-78RW
Malta: 9XPA-0JS3-790K-78RW
Netherlands: 9XPA-0JS3-790K-78RW
Norway: 9XPA-0JS3-790K-78RW
Poland: 9XPA-0JS3-790K-78RW
Portugal: 9XPA-0JS3-790K-78RW
Romania: 9XPA-0JS3-790K-78RW
Slovakia: 9XPA-0JS3-790K-78RW
Slovenia: 9XPA-0JS3-790K-78RW
Spain: 9XPA-0JS3-790K-78RW
Sweden: 9XPA-0JS3-790K-78RW

Contains: 10-Undecenal, 1H-Indene-ar-propanal, 2,3-dihydro-1,1-dimethyl-, 5-Heptenal, 2,6-dimethyl-, Benzoic acid, 2-hydroxy-, hexyl ester, cis-4-(Isopropyl)cyclohexanemethanol, Citral, Citronellal, Citronellol, Cyclohexene, 1-methyl-4-(1-methylethylidene)-, d-Limonene, Dodecanal, Ethyl 2,2-dimethylhydrocinnamal, Geraniol, Geranyl acetate, g-Methoxycedrane, Isocyclocitral, Linalool, Linalyl acetate, Lyral, Neryl acetate, Oils, lime, Oils, pine, Terpenes, orange oil, Undecanal, 2-methyl-

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

P261 Avoid breathing mist/vapours.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.

Response

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Storage Store away from incompatible materials.

Disposal

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

Supplemental label information 99,99 % of the mixture consists of component(s) of unknown acute oral toxicity. 99,99 % of the mixture consists of component(s) of unknown acute dermal toxicity. 99,99 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 99,99 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99,99 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

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
Benzyl acetate	10 - 20	140-11-4 205-399-7	-	-	
Classification: Aquatic Chronic 3;H412					
Ionone, methyl-	5 - 10	1335-46-2 215-635-0	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Aquatic Chronic 2;H411					
Ionone	3 - 5	8013-90-9 232-396-8	-	-	
Classification: Aquatic Chronic 2;H411					
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					
Benzoic acid, 2-hydroxy-, hexyl ester	1 - 3	6259-76-3 228-408-6	-	-	
Classification: Skin Sens. 1B;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
d-Limonene	1 - 3	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

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Ethyl 2,2-dimethylhydrocinnamal	1 - 3	67634-15-5 266-819-2	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
Linalool	1 - 3	78-70-6 201-134-4	-	603-235-00-2	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
Linalyl acetate	1 - 3	115-95-7 204-116-4	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
1H-Indene-ar-propanal, 2,3-dihydro-1,1-dimethyl-	≤ 1	300371-33-9 -	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg), Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
Acetic acid, 2-(cyclohexyloxy)-, 2-propen-1-yl ester	≤ 1	68901-15-5 272-657-3	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg), Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Benzoic acid, 2-hydroxy-, (3Z)-3-hexen-1-yl ester	≤ 1	65405-77-8 265-745-8	-	-	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 2;H411					
Lyral	≤ 1	31906-04-4 250-863-4	-	605-040-00-8	
Classification: Skin Sens. 1A;H317					
Oils, lime	≤ 1	8008-26-2 616-919-0	-	-	
Classification: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Repr. 2;H361, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Oils, pine	≤ 1	8002-09-3 692-006-0	-	-	
Classification: Flam. Liq. 3;H226, Eye Irrit. 2;H319, Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Terpenes, orange oil	≤ 1	68647-72-3 614-678-6	-	-	
Classification: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
10-Undecenal	≤ 0,3	112-45-8 203-973-1	-	-	
Classification: Skin Sens. 1B;H317, Aquatic Chronic 3;H412					
g-Methoxycedrane	≤ 0,3	19870-74-7 243-384-7	-	-	
Classification: Skin Sens. 1B;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Undecanal, 2-methyl-	≤ 0,3	110-41-8 203-765-0	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
2H-Pyran, tetrahydro-4-methyl-2-(2-methyl-1-propen-1-yl)-	≤ 0,2	16409-43-1 240-457-5	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Repr. 2;H361					
5-Heptenal, 2,6-dimethyl-	≤ 0,2	106-72-9 203-427-2	-	-	
Classification: Skin Sens. 1B;H317					
cis-4-(Isopropyl)cyclohexanemethanol	≤ 0,2	13828-37-0 237-539-8	-	-	
Classification: Skin Irrit. 2;H315, Skin Sens. 1B;H317					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Citral	≤ 0,2	5392-40-5 226-394-6	-	605-019-00-3	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317					
Citronellal	≤ 0,2	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	≤ 0,2	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					
Cyclohexene, 1-methyl-4-(1-methylethylidene)-	≤ 0,2	586-62-9 209-578-0	-	-	
Classification: Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Dodecanal	≤ 0,2	112-54-9 203-983-6	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
Geraniol	≤ 0,2	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	≤ 0,2	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					
Isocyclocitral	≤ 0,2	1335-66-6 215-638-7	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317, Aquatic Chronic 3;H412					
Neryl acetate	≤ 0,2	141-12-8 205-459-2	-	-	
Classification: Skin Sens. 1B;H317, Aquatic Chronic 3;H412					
Other components below reportable levels	54.83				

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 Alcohol resistant foam. 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. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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

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

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

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid breathing mist/vapours. 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

Belgium. Exposure Limit Values

Components	Type	Value	Form
Benzyl acetate (CAS 140-11-4)	TWA	62 mg/m3	
		10 ppm	
Citral (CAS 5392-40-5)	TWA	32 mg/m3	Vapour and aerosol.
		5 ppm	Vapour and aerosol.

Denmark. Exposure Limit Values

Components	Type	Value
Benzyl acetate (CAS 140-11-4)	TLV	61 mg/m3
		10 ppm
d-Limonene (CAS 5989-27-5)	TLV	25 ppm
Terpenes, orange oil (CAS 68647-72-3)	TLV	25 ppm

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

Components	Type	Value
Terpenes, orange oil (CAS 68647-72-3)	STEL	300 mg/m3
		50 ppm
	TWA	150 mg/m3
		25 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
d-Limonene (CAS 5989-27-5)	STEL	280 mg/m3
		50 ppm
	TWA	140 mg/m3
		25 ppm

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

Components	Type	Value
d-Limonene (CAS 5989-27-5)	TWA	28 mg/m3
		5 ppm

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

Components	Type	Value
d-Limonene (CAS 5989-27-5)	AGW	28 mg/m3
		5 ppm

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Benzyl acetate (CAS 140-11-4)	TWA	10 ppm	
Citral (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapour.

Italy. Occupational Exposure Limits

Components	Type	Value	Form
Benzyl acetate (CAS 140-11-4)	TWA	10 ppm	
Citral (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapour.

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

Components	Type	Value
Benzyl acetate (CAS 140-11-4)	TWA	5 mg/m3

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

Components	Type	Value
Benzyl acetate (CAS 140-11-4)	TWA	5 mg/m3
Terpenes, orange oil (CAS 68647-72-3)	STEL	300 mg/m3

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

Components	Type	Value
		50 ppm
	TWA	150 mg/m3
		25 ppm

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
Citral (CAS 5392-40-5)	STEL	54 mg/m3
		0 ppm
	TWA	27 mg/m3
		0 ppm

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

Components	Type	Value	Form
Benzyl acetate (CAS 140-11-4)	TWA	10 ppm	
Citral (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapour.

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

Components	Type	Value
Benzyl acetate (CAS 140-11-4)	STEL	80 mg/m3
		13 ppm
	TWA	50 mg/m3
		8 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
d-Limonene (CAS 5989-27-5)	TWA	28 mg/m3
		5 ppm

Spain. Occupational Exposure Limits

Components	Type	Value	Form
Benzyl acetate (CAS 140-11-4)	TWA	62 mg/m3	
		10 ppm	
Citral (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapour.
d-Limonene (CAS 5989-27-5)	TWA	168 mg/m3	
		30 ppm	

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

Components	Type	Value
Terpenes, orange oil (CAS 68647-72-3)	STEL	300 mg/m3
		50 ppm
	TWA	150 mg/m3
		25 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value
d-Limonene (CAS 5989-27-5)	STEL	80 mg/m3
		14 ppm
	TWA	40 mg/m3
		7 ppm

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

Belgium OELs: Skin designation

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

Germany DFG MAK (advisory): Skin designation

d-Limonene (CAS 5989-27-5) 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.

Italy OELs: Skin designation

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

Portugal VLEs Norm on Occupatioinal Exposure: Skin designation

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

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

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

Spain OELs: Skin designation

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

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 Liquid.

Form Liquid.

Colour Colorless

Odour	Not available.
Melting point/freezing point	-51 °C (-59,8 °F) estimated
Boiling point or initial boiling point and boiling range	213 °C (415,4 °F) estimated
Flammability (solid, gas)	Not applicable.
Flash point	98 °C (208,4 °F) Closed cup estimated
Auto-ignition temperature	460 °C (860 °F) estimated
Decomposition temperature	Not available.
pH	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Vapour pressure	0,133322 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	0,996 g/cm3 estimated
Explosive properties	Not explosive.
Hydrocarbons percent	1,8859 % estimated
Oxidising properties	Not oxidising.
Percent volatile	0,05 % estimated
Specific gravity	0,99629 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	Avoid temperatures exceeding the flash point. 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	Not known.
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 Due to partial or complete lack of data the classification is not possible.

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

Benzyl acetate (CAS 140-11-4)	3 Not classifiable as to carcinogenicity to humans.
d-Limonene (CAS 5989-27-5)	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
Benzyl acetate (CAS 140-11-4)			
Aquatic			
Acute			
Fish	LC50	Medaka, high-eyes (Oryzias latipes)	>= 3,48 - <= 4,6 mg/l, 96 hours
d-Limonene (CAS 5989-27-5)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia pulex)	69,6 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	>= 0,619 - <= 0,796 mg/l, 96 hours
Geraniol (CAS 106-24-1)			
Aquatic			
Acute			
Fish	LC50	Brown trout (Salmo trutta)	>= 2,3 - <= 3 mg/l, 96 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
2H-Pyran, tetrahydro-4-methyl-2-(2-methyl-1-propen-1-yl)-	3,3
5-Heptenal, 2,6-dimethyl-	3,4
Acetic acid, 2-(cyclohexyloxy)-, 2-propen-1-yl ester	2,8
Benzoic acid, 2-hydroxy-, (3Z)-3-hexen-1-yl ester	4,8
Benzoic acid, 2-hydroxy-, hexyl ester	5,5
Benzyl acetate	1,96
cis-4-(Isopropyl)cyclohexanemethanol	3,243
Citral	2,76
	3,45
Citronellal	3,53
	3,62
Citronellol	3,41
Cyclohexene, 1-methyl-4-(1-methylethylidene)-	4,47
d-Limonene	4,57
Dodecanal	4,9
Ethyl 2,2-dimethylhydrocinnamal	3,6
Geraniol	3,56

Geranyl acetate	4,04
Ionone	4,1
Ionone, methyl-	4,5 - 5
Isocyclocitral	2,87
Linalool	2,97
Linalyl acetate	3,9
	3,93
Neryl acetate	3,98
Undecanal, 2-methyl-	4,9

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 The product contains volatile organic compounds which have a photochemical ozone creation potential.

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
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
Oils, pine (CAS 8002-09-3)	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	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl acetate)
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	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl acetate)
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	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl acetate)
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	UN3082
14.2. UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Benzyl acetate)
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	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl acetate), 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

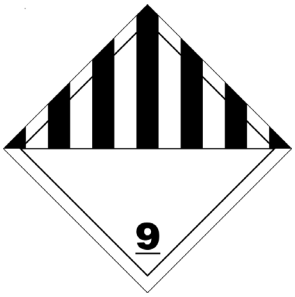
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

d-Limonene

Oils, pine

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

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.

UFI:

Austria: 9XPA-0JS3-790K-78RW
Belgium: 9XPA-0JS3-790K-78RW
Bulgaria: 9XPA-0JS3-790K-78RW
Croatia: 9XPA-0JS3-790K-78RW
Cyprus: 9XPA-0JS3-790K-78RW
Czech Republic: 9XPA-0JS3-790K-78RW
Denmark: 9XPA-0JS3-790K-78RW
Estonia: 9XPA-0JS3-790K-78RW
EU: 9XPA-0JS3-790K-78RW
Finland: 9XPA-0JS3-790K-78RW
France: 9XPA-0JS3-790K-78RW
Germany: 9XPA-0JS3-790K-78RW
Great Britain: 9XPA-0JS3-790K-78RW
Greece: 9XPA-0JS3-790K-78RW
Hungary: 9XPA-0JS3-790K-78RW
Iceland: 9XPA-0JS3-790K-78RW
Ireland: 9XPA-0JS3-790K-78RW
Italy: 9XPA-0JS3-790K-78RW
Latvia: 9XPA-0JS3-790K-78RW
Lithuania: 9XPA-0JS3-790K-78RW
Luxembourg: 9XPA-0JS3-790K-78RW
Malta: 9XPA-0JS3-790K-78RW
Netherlands: 9XPA-0JS3-790K-78RW
Norway: 9XPA-0JS3-790K-78RW
Poland: 9XPA-0JS3-790K-78RW
Portugal: 9XPA-0JS3-790K-78RW
Romania: 9XPA-0JS3-790K-78RW
Slovakia: 9XPA-0JS3-790K-78RW
Slovenia: 9XPA-0JS3-790K-78RW
Spain: 9XPA-0JS3-790K-78RW
Sweden: 9XPA-0JS3-790K-78RW

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)

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.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
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 None.

Training information Follow training instructions when handling this material.

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