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

1.1. Product identifier

Product form : Mixture

Trade name : GRAPEFRUIT JUICE CC-16407 UFI : 6A9N-6CFT-W00G-M5TG

Product code : CC-16407

Type of product : Perfumes, fragrances
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use

Industrial/Professional use spec : Industrial

For professional use only : Perfumes, fragrances

Use of the substance/mixture : Perfumes, fragra Function or use category : Odour agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Candle Craft Weiherwiese 10 65510 Idstein - Germany T 49-6126-9363 -0

info@candlecraft.de - www.candlecraft.de

1.4. Emergency telephone number

Emergency number : 1-800-255-3924; +01-813-248-0585; China: +400-120-0751; Mexico: +01-800-099-0731;

Brazil: +0-800-591-6042; India: +000-800-100-4086

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302
Skin sensitisation, Category 1 H317
Reproductive toxicity, Category 1A H360
Hazardous to the aquatic environment – Acute Hazard, H400

Category 1

Hazardous to the aquatic environment – Chronic Hazard, H411

Category 2

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

Adverse physicochemical, human health and environmental effects

May damage fertility or the unborn child. Harmful if swallowed. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







GHS07

: Danger

GHS08

GHS

Signal word (CLP)

Contains

: benzyl benzoate; Orange Oil; Ethyl maltol; Aldehyde C-16; Litsea cubeba oil; Lime oil distilled; Allyl caproate; Triplal (Vertocitral); Allyl heptanoate; Helional; Melonal

Hazard statements (CLP)

: H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction.

H360 - May damage fertility or the unborn child. H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing should not be allowed out of the workplace.

Extra phrases : For professional users only.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371- 33	18.4 – 36.7721	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Bis(2-ethylhexyl) adipate substance with national workplace exposure limit(s) (PL)	CAS-No.: 103-23-1 EC-No.: 203-090-1 REACH-no: 01-2119439699-	15 – 29.9	Not classified
GAMMA-OCTALACTONE	CAS-No.: 104-50-7 EC-No.: 203-208-1 REACH-no: 01-2120793635-	2.6 – 5.25	Skin Irrit. 2, H315

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Orange Oil	CAS-No.: 8028-48-6 EC-No.: 232-433-8	1.4 – 2.75	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Verdox	CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713- 33	0.9 – 1.7	Aquatic Chronic 2, H411
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB)	CAS-No.: 1222-05-5 EC-No.: 214-946-9 EC Index-No.: 603-212-00-7 REACH-no: 01-2119488227- 29	0.8 – 1.625	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethyl maltol	CAS-No.: 4940-11-8 EC-No.: 225-582-5	0.7 – 1.3	Acute Tox. 4 (Oral), H302
Aldehyde C-16	CAS-No.: 77-83-8 EC-No.: 201-061-8 REACH-no: 01-2119967770- 28	0.6 – 1.1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Benzyl acetate substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO)	CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272- 42	0.4 – 0.85	Aquatic Chronic 3, H412
Litsea cubeba oil	CAS-No.: 68855-99-2 EC-No.: 290-018-7	0.4 – 0.7	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Lime oil distilled	CAS-No.: 8008-26-2 EC-No.: 290-010-3 REACH-no: 01-2120138646- 51	0.4 – 0.7	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 1A, H360FD Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Allyl caproate	CAS-No.: 123-68-2 EC-No.: 204-642-4 REACH-no: 01-2119983573- 26	0.3 – 0.5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Triplal (Vertocitral)	CAS-No.: 68039-49-6 EC-No.: 268-264-1	0.2 – 0.3965	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Camphene	CAS-No.: 79-92-5 EC-No.: 201-234-8	0.2 – 0.35	Flam. Sol. 2, H228 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Allyl heptanoate	CAS-No.: 142-19-8 EC-No.: 205-527-1 REACH-no: 01-2119488961- 23	0.1 – 0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 3, H412
isopentyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408- 32	0.1 – 0.15	Flam. Liq. 3, H226
Ethyl acetoacetate substance with national workplace exposure limit(s) (RO)	CAS-No.: 141-97-9 EC-No.: 205-516-1	0.1 – 0.15	Not classified
benzaldehyde substance with national workplace exposure limit(s) (BG, FI, HU, LT, LV, PL)	CAS-No.: 100-52-7 EC-No.: 202-860-4 EC Index-No.: 605-012-00-5 REACH-no: 01-2119455540-	0.1 – 0.15	Acute Tox. 4 (Oral), H302
Helional	CAS-No.: 1205-17-0 EC-No.: 214-881-6 REACH-no: 01-2120740119- 58	0.1 – 0.15	Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 2, H411
Melonal	CAS-No.: 106-72-9 EC-No.: 203-427-2	0.1 – 0.1008	Skin Sens. 1B, H317
Alcohol C-10 substance with national workplace exposure limit(s) (BG, DE, LT, LV, RO, CH)	CAS-No.: 112-30-1 EC-No.: 203-956-9	0 – 0.0085	Aquatic Chronic 3, H412
Aldehyde C-6 substance with national workplace exposure limit(s) (FI, PL)	CAS-No.: 66-25-1 EC-No.: 200-624-5	0 – 0.0021	Flam. Liq. 3, H226
Caproic acid substance with national workplace exposure limit(s) (BG, LT, LV)	CAS-No.: 142-62-1 EC-No.: 205-550-7	0 – 0.0001	Eye Dam. 1, H318 Skin Corr. 1C, H314

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical
	advice/attention. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water,

Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.

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First-aid measures after ingestion

: Do NOT induce vomiting. Obtain emergency medical attention. Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Sand. Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable

protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures

: Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products Incompatible materials

: Strong bases. Strong acids.

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: Sources of ignition. Direct sunlight.

Storage temperature

: 25 °C

Storage area

: Store in a well-ventilated place. Store away from heat.

Special rules on packaging

: Store in a closed container.

Packaging materials

: Do not store in corrodable metal.

Germany

Storage class (LGK, TRGS 510)

: LGK 6.1C - Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

Joint storage table

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for

: LGK 1, LGK 2A, LGK 4.1A, LGK 5.1A, LGK 5.1C, LGK 5.2, LGK 6.2, LGK 7

Joint storage with restrictions permitted for

: LGK 4.2, LGK 4.3, LGK 5.1B

Joint storage permitted for

: LGK 2B, LGK 3, LGK 4.1B, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Bis(2-ethylhexyl) adipate (103-23-1)	
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	400 mg/m³

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Benzyl acetate (140-11-4)		
Belgium - Occupational Exposure Limits		
OEL TWA	62 mg/m³	
	10 ppm	
Denmark - Occupational Exposure Limits		
OEL TWA	61 mg/m³	
	10 ppm	
OEL STEL	122 mg/m³	
	20 ppm	
Ireland - Occupational Exposure Limits		
OEL TWA	10 ppm	
OEL STEL	30 ppm (calculated)	
Latvia - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	5 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA	10 ppm	
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen	
Romania - Occupational Exposure Limits		
OEL TWA	50 mg/m³	
	8 ppm	
OEL STEL	80 mg/m³	
	13 ppm	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	62 mg/m³	
	10 ppm	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	10 ppm	
ACGIH chemical category	Not Classifiable as a Human Carcinogen	
isopentyl acetate (123-92-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	270 mg/m³	
	50 ppm	
IOEL STEL	540 mg/m³	
	100 ppm	
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	270 mg/m³ (Pentyl acetate (all isomers))	
	50 ppm (Pentyl acetate (all isomers))	
MAK (OEL STEL)	540 mg/m³ (Pentylacetate)	

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isopentyl acetate (123-92-2)		
	100 ppm (Pentylacetate)	
Belgium - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Bulgaria - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA)	270 mg/m³	
	50 ppm	
KGVI (OEL STEL)	540 mg/m³	
	100 ppm	
Cyprus - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Denmark - Occupational Exposure Limits		
OEL TWA	271 mg/m³ (Amyl acetate, all isomers)	
	50 ppm (Amyl acetate, all isomers)	
OEL STEL	540 mg/m³	
	100 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Finland - Occupational Exposure Limits		
HTP (OEL TWA)	270 mg/m³ (Pentyl acetate)	
	50 ppm (Pentyl acetate)	
HTP (OEL STEL)	540 mg/m³	
	100 ppm	
France - Occupational Exposure Limits		
VME (OEL TWA)	270 mg/m³ (restrictive limit)	
	50 ppm (restrictive limit)	

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isopentyl acetate (123-92-2)		
VLE (OEL C/STEL)	540 mg/m³ (restrictive limit)	
	100 ppm (restrictive limit)	
Germany - Occupational Exposure Limits (TRGS 90	00)	
AGW (OEL TWA)	270 mg/m³	
	50 ppm	
Gibraltar - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Greece - Occupational Exposure Limits		
OEL TWA	530 mg/m³	
	100 ppm	
OEL STEL	800 mg/m³	
	150 ppm	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	270 mg/m³	
CK (OEL STEL)	540 mg/m³	
Ireland - Occupational Exposure Limits		
OEL TWA	260 mg/m³	
	50 ppm	
OEL STEL	520 mg/m³	
	100 ppm	
Italy - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Latvia - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	270 mg/m³	
	50 ppm	
TPRV (OEL STEL)	540 mg/m³	
	100 ppm	
Luxembourg - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
	1	

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isopentyl acetate (123-92-2)			
OEL STEL	540 mg/m³		
	100 ppm		
Malta - Occupational Exposure Limits			
OEL TWA	270 mg/m³		
	50 ppm		
OEL STEL	540 mg/m³		
	100 ppm		
Netherlands - Occupational Exposure Limits			
TGG-15min (OEL STEL)	530 mg/m³		
	98.1 ppm		
Poland - Occupational Exposure Limits			
NDS (OEL TWA)	250 mg/m³		
NDSCh (OEL STEL)	500 mg/m³		
Portugal - Occupational Exposure Limits			
OEL TWA	270 mg/m³ (indicative limit value)		
	50 ppm (indicative limit value (Pentyl acetate, all isomers)		
OEL STEL	540 mg/m³ (indicative limit value)		
	100 ppm (indicative limit value)		
Romania - Occupational Exposure Limits			
OEL TWA	270 mg/m³		
	50 ppm		
OEL STEL	540 mg/m³		
	100 ppm		
Slovakia - Occupational Exposure Limits			
NPHV (OEL TWA)	270 mg/m³		
	50 ppm		
NPHV (OEL C)	540 mg/m³		
Slovenia - Occupational Exposure Limits			
OEL TWA	270 mg/m³		
	50 ppm		
OEL STEL	540 mg/m³		
	100 ppm		
Spain - Occupational Exposure Limits	Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	270 mg/m³ (indicative limit value)		
	50 ppm (indicative limit value)		
VLA-EC (OEL STEL)	540 mg/m³		
	100 ppm		
Sweden - Occupational Exposure Limits			
NGV (OEL TWA)	270 mg/m³ (Pentyl acetates)		

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isopentyl acetate (123-92-2)		
	50 ppm (Pentyl acetates)	
KGV (OEL STEL)	540 mg/m³ (Pentyl acetates)	
	100 ppm (Pentyl acetates)	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA)	260 mg/m³	
	50 ppm	
Korttidsverdi (OEL STEL)	325 mg/m³ (value calculated)	
	75 ppm (value calculated)	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA)	260 mg/m³ (Pentyl acetate all isomers)	
	50 ppm (Pentyl acetate all isomers)	
KZGW (OEL STEL)	260 mg/m³ (Pentyl acetate all isomers)	
	50 ppm (Pentyl acetate all isomers)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	50 ppm (Pentyl acetate, all isomers)	
ACGIH OEL STEL	100 ppm (Pentyl acetate, all isomers)	
Ethyl acetoacetate (141-97-9)		
Romania - Occupational Exposure Limits		
OEL TWA	100 mg/m³	
	19 ppm	
OEL STEL	200 mg/m³	
	38 ppm	
benzaldehyde (100-52-7)		
Bulgaria - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Finland - Occupational Exposure Limits		
HTP (OEL TWA)	4.4 mg/m³	
	1 ppm	
HTP (OEL C)	17.4 mg/m³	
	4 ppm	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	5 mg/m³	
CK (OEL STEL)	10 mg/m³	
Latvia - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Lithuania - Occupational Exposure Limits		

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penzaldehyde (100-52-7)		
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	10 mg/m³	
NDSCh (OEL STEL)	40 mg/m³	
Alcohol C-10 (112-30-1)		
Bulgaria - Occupational Exposure Limits		
DEL TWA	10 mg/m³	
Germany - Occupational Exposure Limits (TRGS 90	00)	
AGW (OEL TWA)	66 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Latvia - Occupational Exposure Limits		
DEL TWA	10 mg/m³	
Lithuania - Occupational Exposure Limits		
PRV (OEL TWA)	10 mg/m³	
Romania - Occupational Exposure Limits		
DEL TWA	100 mg/m³	
	15 ppm	
DEL STEL	200 mg/m³	
	30 ppm	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA)	66 mg/m³ (aerosol, vapour)	
	10 ppm (aerosol, vapour)	
KZGW (OEL STEL)	66 mg/m³ (aerosol, vapour)	
	10 ppm (aerosol, vapour)	
Aldehyde C-6 (66-25-1)		
Finland - Occupational Exposure Limits		
HTP (OEL STEL)	42 mg/m³	
	10 ppm	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	40 mg/m³	
NDSCh (OEL STEL)	80 mg/m³	
Caproic acid (142-62-1)		
Bulgaria - Occupational Exposure Limits		
DEL TWA	5 mg/m³	
Latvia - Occupational Exposure Limits		
DEL TWA	5 mg/m³	
Lithuania - Occupational Exposure Limits		
PRV (OEL TWA)	5 mg/m³	

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Conforms to standard.
Odour
Odour threshold : Conforms to standard.
Odour threshold : Conforms to standard.
Odour threshold : Not available
Freezing point : Not available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Boiling point : Not available
Flammability : Not applicable
Lower explosion limit : Not available
Upper explosion limit : Not available
Flash point : 81 °C
Auto-ignition temperature : Not available

Decomposition temperature : Not available pH : Not available Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available

Vapour pressure : 0.002855816 mm Hg (calculated value)

Vapour pressure at 50°C : Not available
Density : Not available
Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 10.8604 % (calculated value)(CARB VOC) (%w/w)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

GRAPEFRUIT JUICE CC-16407

ATE CLP (oral) 1224.37 mg/kg bodyweight

Safety Data Sheet

benzyl benzoate (120-51-4)		
LD50 oral rat	500 mg/kg (Source: NLM_CIP)	
LD50 oral	1160 mg/kg bodyweight	
LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)	
Bis(2-ethylhexyl) adipate (103-23-1)		
LD50 oral rat	5600 mg/kg (Source: NLM_CIP)	
LD50 dermal rabbit	8410 mg/kg (Source: NLM_CIP)	
LC50 Inhalation - Rat	> 5.7 mg/l/4h	
GAMMA-OCTALACTONE (104-50-7)		
LD50 oral rat	4400 mg/kg (Source: NLM_CIP)	
LD50 oral	4400 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)	
Orange Oil (8028-48-6)		
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)	
Verdox (88-41-5)		
LD50 oral rat	4600 mg/kg (Source: NLM_CIP)	
LD50 oral	4600 mg/kg	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylir	ndeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)	
LD50 oral rat	> 3250 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit	> 3250 mg/kg (Source: CHEMVIEW)	
LC50 Inhalation - Rat	> 5.04 mg/l/4h	
Ethyl maltol (4940-11-8)		
LD50 oral rat	1150 mg/kg (Source: NLM_CIP)	
LD50 oral	1200 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)	
Aldehyde C-16 (77-83-8)		
LD50 oral rat	5470 mg/kg (Source: NLM_CIP)	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)	
Benzyl acetate (140-11-4)		
LD50 oral rat	2490 mg/kg (Source: JAPAN_GHS)	
LD50 oral	2490 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg (Source: JAPAN_GHS)	
Litsea cubeba oil (68855-99-2)		
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)	
LD50 dermal	4800 mg/kg bodyweight	
Lime oil distilled (8008-26-2)		
LD50 oral rat	5600 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	

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Allyl caproate (123-68-2)		
LD50 oral	218 mg/kg	
LD50 dermal rabbit	820 mg/kg (Source: ECHA_API)	
LD50 dermal	300 mg/kg	
Triplal (Vertocitral) (68039-49-6)		
LD50 oral	2330 mg/kg	
Camphene (79-92-5)		
LD50 oral rat	5600 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
Allyl heptanoate (142-19-8)		
LD50 oral rat	500 mg/kg (Source: NLM_CIP)	
LD50 oral	218 mg/kg	
LD50 dermal rabbit	810 mg/kg (Source: ECHA_API)	
LD50 dermal	810 mg/kg	
Ethyl acetoacetate (141-97-9)		
LD50 oral rat	3980 mg/kg (Source: NLM_CIP)	
LD50 dermal rabbit	> 5000 mg/kg (Source: NLM_CIP)	
benzaldehyde (100-52-7)		
LD50 oral rat	1292 mg/kg (Source: JAPAN_GHS)	
LD50 dermal rabbit	> 1250 mg/kg (Source: JAPAN_GHS)	
Helional (1205-17-0)		
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)	
Melonal (106-72-9)		
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)	
Alcohol C-10 (112-30-1)		
LD50 oral rat	4720 mg/kg (Source: NZ_CCID)	
LD50 dermal rabbit	3560 mg/kg (Source: NLM_CIP)	
Aldehyde C-6 (66-25-1)		
LD50 oral rat	4890 mg/kg (Source: NLM_CIP)	
LD50 dermal rabbit	> 8100 mg/kg (Source: ECHA_API)	
Caproic acid (142-62-1)		
LD50 oral rat	3 g/kg (Source: NLM_HSDB)	
LD50 oral	4000 mg/kg bodyweight	
LD50 dermal rabbit	630 mg/kg (Source: NLM_HSDB)	
	Not classified	
,	Not classified May cause an allergic skin reaction.	
	Not classified	
	Not classified	

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Bis(2-ethylhexyl) adipate (103-23-1)		
IARC group	3 - Not classifiable	
Benzyl acetate (140-11-4)		
IARC group	3 - Not classifiable	
Reproductive toxicity : I	May damage fertility or the unborn child.	
STOT-single exposure :	Not classified	
STOT-repeated exposure :	Not classified	
Aspiration hazard :	Not classified	
benzyl benzoate (120-51-4)		
Viscosity, kinematic	7.456 mm ² /s	
Camphene (79-92-5)		
Hydrocarbon	Yes	

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term

: Toxic to aquatic life with long lasting effects.

(chronic)		
benzyl benzoate (120-51-4)		
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)	
NOEC (chronic)	0.168 mg/l	
Bis(2-ethylhexyl) adipate (103-23-1)		
LC50 - Fish [1]	0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)	
LC50 - Fish [2]	0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)	
EC50 - Crustacea [1]	> 1.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)		
LC50 - Fish [1]	0.452 mg/l Wolf, 1996d-27682	
LC50 - Other aquatic organisms [1]	> 0.14 mg/l REACH DOSSIER Pimephales promelas	
EC50 - Crustacea [2]	260 μg/l REACH Dossier	
EC50 - Other aquatic organisms [1]	0.131 mg/l REACH Dossier	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Ethyl maltol (4940-11-8)		
LC50 - Fish [1]	> 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: ECHA)	
Aldehyde C-16 (77-83-8)		
LC50 - Fish [1]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)	
Allyl caproate (123-68-2)		
LC50 - Fish [1]	0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)	
Camphene (79-92-5)		
LC50 - Fish [1]	0.72 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [flow-through] Source: IUCLID)	
LC50 - Fish [2]	150 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static] Source: IUCLID)	
EC50 - Crustacea [1]	22 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 72h - Algae [1]	> 1000 mg/l (Species: Desmodesmus subspicatus)	
Ethyl acetoacetate (141-97-9)		
LC50 - Fish [1]	298 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: IUCLID)	
LC50 - Fish [2]	290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)	
EC50 - Crustacea [1]	646 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)	
benzaldehyde (100-52-7)		
LC50 - Fish [1]	10.6 – 11.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)	
LC50 - Fish [2]	12.69 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)	
Alcohol C-10 (112-30-1)		
LC50 - Fish [1]	2.2 – 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)	
LC50 - Fish [2]	4.12 – 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)	
EC50 - Crustacea [1]	3 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Aldehyde C-6 (66-25-1)		
LC50 - Fish [1]	12 – 16.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)	
Caproic acid (142-62-1)		
LC50 - Fish [1]	306 – 334 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)	
LC50 - Fish [2]	88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)	

12.2. Persistence and degradability

GRAPEFRUIT JUICE CC-16407	
Persistence and degradability Not established.	
benzyl benzoate (120-51-4)	
Persistence and degradability May cause long-term adverse effects in the environment.	

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Bis(2-ethylhexyl) adipate (103-23-1)			
Persistence and degradability	Rapidly degradable		
GAMMA-OCTALACTONE (104-50-7)	GAMMA-OCTALACTONE (104-50-7)		
Persistence and degradability	Rapidly degradable		
Orange Oil (8028-48-6)			
Persistence and degradability	Rapidly degradable		
Verdox (88-41-5)			
Persistence and degradability	Rapidly degradable		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylin	deno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)		
Persistence and degradability	Rapidly degradable		
Ethyl maltol (4940-11-8)			
Persistence and degradability	Rapidly degradable		
Aldehyde C-16 (77-83-8)			
Persistence and degradability	Rapidly degradable		
Benzyl acetate (140-11-4)			
Persistence and degradability	Rapidly degradable		
Litsea cubeba oil (68855-99-2)			
Persistence and degradability	Rapidly degradable		
Lime oil distilled (8008-26-2)			
Persistence and degradability	Rapidly degradable		
Allyl caproate (123-68-2)			
Persistence and degradability	Rapidly degradable		
Triplal (Vertocitral) (68039-49-6)			
Persistence and degradability	Rapidly degradable		
Camphene (79-92-5)			
Persistence and degradability	Rapidly degradable		
Allyl heptanoate (142-19-8)			
Persistence and degradability	Rapidly degradable		
isopentyl acetate (123-92-2)			
Persistence and degradability	Rapidly degradable		
Ethyl acetoacetate (141-97-9)			
Persistence and degradability	Rapidly degradable		
benzaldehyde (100-52-7)			
Persistence and degradability	Rapidly degradable		
Helional (1205-17-0)			
Persistence and degradability	Rapidly degradable		

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Melonal (106-72-9)		
Persistence and degradability	Rapidly degradable	
Alcohol C-10 (112-30-1)		
Persistence and degradability	Rapidly degradable	
Aldehyde C-6 (66-25-1)		
Persistence and degradability	Rapidly degradable	
Caproic acid (142-62-1)		
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		

12.3. Bloaccumulative potential		
GRAPEFRUIT JUICE CC-16407		
Bioaccumulative potential	Not established.	
benzyl benzoate (120-51-4)		
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)	
Bioaccumulative potential	Not established.	
Bis(2-ethylhexyl) adipate (103-23-1)		
BCF - Fish [1]	(27 dimensionless)	
Partition coefficient n-octanol/water (Log Pow)	8.94 (at 25 °C)	
GAMMA-OCTALACTONE (104-50-7)		
Partition coefficient n-octanol/water (Log Pow)	1.89 (at 25 °C (at pH 6.4)	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylin	deno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)	
BCF - Fish [1]	(1618 dimensionless (whole body w.w.)	
Partition coefficient n-octanol/water (Log Pow)	5.3 (at 25 °C (at pH 7)	
Ethyl maltol (4940-11-8)		
Partition coefficient n-octanol/water (Log Pow)	2.9 (at 25 °C)	
Aldehyde C-16 (77-83-8)		
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C (cis isomer)	
Benzyl acetate (140-11-4)		
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7)	
Allyl caproate (123-68-2)		
Partition coefficient n-octanol/water (Log Pow)	3.191 (at 20 °C (at pH 5)	
Camphene (79-92-5)		
Partition coefficient n-octanol/water (Log Pow)	4.22 (at 37 °C (at pH 7.2)	
Allyl heptanoate (142-19-8)		
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 20 °C (at pH 5.3)	
isopentyl acetate (123-92-2)		
Partition coefficient n-octanol/water (Log Pow)	2.7 (at 35 °C)	

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Ethyl acetoacetate (141-97-9)		
Partition coefficient n-octanol/water (Log Pow)	0.8 (at 20 °C)	
benzaldehyde (100-52-7)		
BCF - Fish [1]	(no significant bioaccumulation)	
Partition coefficient n-octanol/water (Log Pow)	1.4 (at 25 °C)	
Helional (1205-17-0)		
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)	
Melonal (106-72-9)		
Partition coefficient n-octanol/water (Log Pow)	3.4 (at 35 °C (at pH 7)	
Alcohol C-10 (112-30-1)		
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 25 °C (at pH 6)	
Aldehyde C-6 (66-25-1)		
Partition coefficient n-octanol/water (Log Pow)	2.3 (at 25 °C (at pH 5)	
Caproic acid (142-62-1)		
Partition coefficient n-octanol/water (Log Pow)	1.88	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information

: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations

Ecological information

HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Dispose in a safe manner in accordance with local/national regulations.
- : Avoid release to the environment.
- : HP6 "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
 - HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
- HP14 "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	14.1. UN number or ID number			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate)	Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate)
Transport document descr	iption			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate), 9, III
14.3. Transport hazard o	class(es)			
9	9	9	9	9
**************************************	***************************************		**************************************	***************************************
14.4. Packing group	14.4. Packing group			
111	III	111	111	111
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information	n available			

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4

Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Orange plates : 90

Tunnel restriction code (ADR) : EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG) Special packing provisions (IMDG) : PP1 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1, TP29 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-F Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Orange Oil ; Lime oil distilled ; isopentyl acetate ; Aldehyde C-6	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	GRAPEFRUIT JUICE CC-16407; benzyl benzoate; GAMMA- OCTALACTONE; Orange Oil; Aldehyde C-16; Litsea cubeba oil; Lime oil distilled; Allyl caproate; Triplal (Vertocitral); Allyl heptanoate; benzaldehyde; Helional; Melonal; Caproic acid	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	GRAPEFRUIT JUICE CC-16407; benzyl benzoate; Orange Oil; Verdox; 1,3,4,6,7,8- hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6- c]pyran; galaxolide; (HHCB); Aldehyde C-16; Benzyl acetate; Litsea cubeba oil; Lime oil distilled; Allyl caproate; Triplal (Vertocitral); Allyl heptanoate; Helional; Alcohol C-10	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
40.	Orange Oil; Lime oil distilled; Camphene; isopentyl acetate; Aldehyde C-6	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : 10.8604 % (calculated value)(CARB VOC) (%w/w)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must

be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the

shipping route (according to § 10).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : A(1) - highly toxic for aquatic organisms, may have longterm hazardous effects in aquatic

environment

SZW-lijst van kankerverwekkende stoffen : Orange Oil,Triplal (Vertocitral) are listed

SZW-lijst van mutagene stoffen : Orange Oil,Triplal (Vertocitral) are listed SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class III-1 Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines

for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

Switzerland

Chemicals Ordinance (ChemO, SR 813.11) : Group 1

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Flam. Sol. 2	Flammable solids, Category 2	
H226	Flammable liquid and vapour.	
H228	Flammable solid.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and eye damage.	
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.	
H360	May damage fertility or the unborn child.	
H360FD	May damage fertility. May damage the unborn child.	
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.	
Repr. 1A	Reproductive toxicity, Category 1A	
Repr. 2	Reproductive toxicity, Category 2	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
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Full text of H- and EUH-statements:	
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.