

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

1.1. Product identifier

Product form	: Mixture
Trade name	: VANILLA RHUM BRULEE #EU44358F
UFI	: ACUX-C3SG-X00H-4UNQ
Product code	: EU44358F
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	: For professional use only Industrial
Use of the substance/mixture	: Perfumes, fragrances
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

FRENCH COLOR & FRAGRANCE International GmbH
Mittlerer Weg 35
DE 79424 Auggen
Germany
T 49-7631-931-8900
SDS@frenchcolor.com, www.frenchcolor.com

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
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)	: Warning
Contains	: Linalool; 1,2-Cyclopentanedione, 3-methyl-; Cinnamic alcohol; Heliotropine

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Hazard statements (CLP)	: H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P321 - Specific treatment (see supplemental first aid instruction on this label).
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]
Ethylene brassylate	CAS-No.: 105-95-3 EC-No.: 203-347-8 REACH-no: 01-2119976314-33	9.6 – 19.1578	Aquatic Chronic 2, H411
1,2-Cyclopentanedione, 3-methyl-	CAS-No.: 765-70-8 EC-No.: 212-154-8	1.00000175 – 1.9931074655	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	1 – 1.9908	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Ethyl maltol	CAS-No.: 4940-11-8 EC-No.: 225-582-5	0.8 – 1.6922	Acute Tox. 4 (Oral), H302
1,2-Propanediol substance with national workplace exposure limit(s) (GB, HR, IE, LT, LV, PL, NO)	CAS-No.: 57-55-6 EC-No.: 200-338-0 REACH-no: 01-2119456809-23	0.30975 – 1.3213935	Not classified
benzyl alcohol substance with national workplace exposure limit(s) (BG, CZ, DE, FI, LT, LV, PL, SI, CH)	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630-38	0.7 – 1.3036	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
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: 01-2119455540-44	0.5 – 1	Acute Tox. 4 (Oral), H302

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethyl acetoacetate substance with national workplace exposure limit(s) (RO)	CAS-No.: 141-97-9 EC-No.: 205-516-1	0.5 – 0.9954	Not classified
Cinnamic alcohol	CAS-No.: 104-54-1 EC-No.: 203-212-3 REACH-no: 01-2119934496-29	0.3 – 0.5014	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317
Heliotropine	CAS-No.: 120-57-0 EC-No.: 204-409-7 REACH-no: 01-2119983608-21	0.2 – 0.3008	Skin Sens. 1B, H317
acetophenone substance with national workplace exposure limit(s) (BE, BG, DK, ES, FI, HU, IE, LT, LV, PL, PT, RO)	CAS-No.: 98-86-2 EC-No.: 202-708-7 EC Index-No.: 606-042-00-1 REACH-no: 01-2119533169-37	0.1 – 0.1991	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
ethyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-46	0.000780815 – 0.003330956 79	Flam. Liq. 1, H224 Eye Irrit. 2, H319 STOT SE 3, H336
ethyl formate substance with national workplace exposure limit(s) (AT, BE, CZ, DE, DK, ES, FI, FR, GB, GR, HR, IE, PL, PT, RO, SI, SK, NO, CH)	CAS-No.: 109-94-4 EC-No.: 203-721-0 EC Index-No.: 607-015-00-7	0.000738675 – 0.003151187 55	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Eye Irrit. 2, H319 STOT SE 3, H335
isobutyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH)	CAS-No.: 110-19-0 EC-No.: 203-745-1 EC Index-No.: 607-026-00-7	0.00013125 – 0.000559912 5	Flam. Liq. 2, H225 STOT SE 3, H336
2-furaldehyde substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, PL, PT, RO, SE, SK, NO, CH)	CAS-No.: 98-01-1 EC-No.: 202-627-7 EC Index-No.: 605-010-00-4	0.00006125 – 0.000261292 5	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412
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	0.000035 – 0.00014931	Aquatic Chronic 3, H412
Acetyl Propionyl substance with national workplace exposure limit(s) (DE, SI, CH)	CAS-No.: 600-14-6 EC-No.: 209-984-8	0.00002625 – 0.000111982 5	Flam. Liq. 2, H225 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-methylpropan-1-ol; iso-butanol substance with national workplace exposure limit(s) (AT, BE, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, IE, LT, LV, PL, PT, RO, SE, SI, SK, NO, CH)	CAS-No.: 78-83-1 EC-No.: 201-148-0 EC Index-No.: 603-108-00-1	0.0000175 – 0.000074655	Flam. Liq. 3, H226 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336
Amyl formate substance with national workplace exposure limit(s) (LT, LV)	CAS-No.: 638-49-3 EC-No.: 211-340-6 EC Index-No.: 607-696-00-0	0.000000682 5 – 0.000002911 545	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
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	0.000000068 25 – 0.000000291 1545	Flam. Liq. 3, H226

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).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest.
First-aid measures after skin contact	: 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	: Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Obtain emergency medical attention. 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.
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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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. 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. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Store away from other materials.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures : 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 container closed when not in use. Store in a well-ventilated place. Keep cool.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.
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.

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

benzaldehyde (100-52-7)

Bulgaria - Occupational Exposure Limits

OEL TWA	5 mg/m ³
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Finland - Occupational Exposure Limits

HTP (OEL TWA)	4.4 mg/m ³
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benzaldehyde (100-52-7)	
	1 ppm
HTP (OEL C)	17.4 mg/m ³
	4 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	5 mg/m ³
CK (OEL STEL)	10 mg/m ³
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	10 mg/m ³
NDSch (OEL STEL)	40 mg/m ³
Ethyl acetoacetate (141-97-9)	
Romania - Occupational Exposure Limits	
OEL TWA	100 mg/m ³
	19 ppm
OEL STEL	200 mg/m ³
	38 ppm
benzyl alcohol (100-51-6)	
Bulgaria - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	40 mg/m ³
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	45 mg/m ³
	10 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	22 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	Skin notation
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5 mg/m ³
OEL chemical category	Skin notation

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benzyl alcohol (100-51-6)	
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	240 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA	22 mg/m ³
	5 ppm
OEL STEL	44 mg/m ³
	10 ppm
OEL chemical category	Potential for cutaneous absorption
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	22 mg/m ³ (aerosol, vapour)
	5 ppm (aerosol, vapour)
OEL chemical category	Skin notation
1,2-Propanediol (57-55-6)	
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	474 mg/m ³ (total vapor and particles)
	10 mg/m ³ (particles)
	150 ppm
Ireland - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (particulates)
	470 mg/m ³ (total vapour and particulates)
	150 ppm (total vapour and particulates)
OEL STEL	1410 mg/m ³ (calculated-particulates)
	30 mg/m ³ (calculated)
	450 ppm (calculated-total vapour and particulates)
Latvia - Occupational Exposure Limits	
OEL TWA	7 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	7 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	100 mg/m ³ (vapor and inhalable fraction)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	474 mg/m ³ (total vapour and particulates)
	10 mg/m ³ (particulates)
	150 ppm (total vapour and particulates)
WEL STEL (OEL STEL)	1422 mg/m ³ (calculated-total vapour and particulates)
	30 mg/m ³ (calculated-particulate)
	450 ppm (calculated-total vapour and particulates)
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	79 mg/m ³
	25 ppm

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1,2-Propanediol (57-55-6)	
Korttidsverdi (OEL STEL)	118.5 mg/m³ (value calculated)
	37.5 ppm (value calculated)
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
2-methylpropan-1-ol; iso-butanol (78-83-1)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	150 mg/m³ (Butanol, all isomers)
	50 ppm (Butanol, all isomers)
MAK (OEL STEL)	600 mg/m³ (Butanol, all isomers)
	200 ppm (Butanol, all isomers)

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2-methylpropan-1-ol; iso-butanol (78-83-1)	
Belgium - Occupational Exposure Limits	
OEL TWA	154 mg/m ³
	50 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	154 mg/m ³
	50 ppm
KGVI (OEL STEL)	231 mg/m ³
	75 ppm
OEL chemical category	Skin notation
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	300 mg/m ³
OEL chemical category	Potential for cutaneous absorption
Denmark - Occupational Exposure Limits	
OEL C	150 mg/m ³ (Butanol, all isomers)
	50 ppm (Butanol, all isomers)
OEL chemical category	Potential for cutaneous absorption
Estonia - Occupational Exposure Limits	
OEL TWA	150 mg/m ³
	50 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	150 mg/m ³ (Butanol)
	50 ppm (Butanol)
HTP (OEL STEL)	230 mg/m ³ (Butanol)
	75 ppm (Butanol)
OEL chemical category	Potential for cutaneous absorption
France - Occupational Exposure Limits	
VME (OEL TWA)	150 mg/m ³
	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	310 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	100 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece - Occupational Exposure Limits	
OEL TWA	300 mg/m ³
	100 ppm
OEL STEL	300 mg/m ³
	100 ppm
Ireland - Occupational Exposure Limits	
OEL TWA	150 mg/m ³

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2-methylpropan-1-ol; iso-butanol (78-83-1)	
	50 ppm
OEL STEL	225 mg/m ³
	75 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (Butyl alcohols)
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	10 mg/m ³
OEL chemical category	Skin notation
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	100 mg/m ³
NDSch (OEL STEL)	200 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	50 ppm
Romania - Occupational Exposure Limits	
OEL TWA	100 mg/m ³
	33 ppm
OEL STEL	200 mg/m ³
	66 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	310 mg/m ³
	100 ppm
Slovenia - Occupational Exposure Limits	
OEL TWA	310 mg/m ³
	100 ppm
OEL STEL	310 mg/m ³
	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	154 mg/m ³
	50 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m ³
	50 ppm
KGV (OEL STEL)	250 mg/m ³
	75 ppm
OEL chemical category	Skin notation
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	154 mg/m ³
	50 ppm
WEL STEL (OEL STEL)	231 mg/m ³

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2-methylpropan-1-ol; iso-butanol (78-83-1)	
	75 ppm
Norway - Occupational Exposure Limits	
Takverdi (OEL C)	75 mg/m³
	25 ppm
OEL chemical category	Skin notation
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	150 mg/m³
	50 ppm
KZGW (OEL STEL)	150 mg/m³
	50 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	50 ppm
Acetyl Propionyl (600-14-6)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	0.083 mg/m³
	0.02 ppm
Chemical category	Skin notation, Skin sensitization
Slovenia - Occupational Exposure Limits	
OEL TWA	0.083 mg/m³
	0.02 ppm
OEL STEL	0.083 mg/m³
	0.02 ppm
OEL chemical category	Potential for cutaneous absorption
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	0.08 mg/m³
	0.02 ppm
KZGW (OEL STEL)	0.16 mg/m³
	0.04 ppm
OEL chemical category	Sensitizer, Skin notation
ethyl acetate (141-78-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	734 mg/m³
	200 ppm
IOEL STEL	1468 mg/m³
	400 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	734 mg/m³
	200 ppm

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ethyl acetate (141-78-6)	
MAK (OEL STEL)	1468 mg/m³
	400 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	734 mg/m³
	200 ppm
OEL STEL	1468 mg/m³
	400 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	734 mg/m³
	200 ppm
OEL STEL	1468 mg/m³
	400 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	734 mg/m³
	200 ppm
KGVl (OEL STEL)	1468 mg/m³
	400 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	734 mg/m³
	200 ppm
OEL STEL	1468 mg/m³
	400 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	700 mg/m³
Denmark - Occupational Exposure Limits	
OEL TWA	540 mg/m³
	150 ppm
OEL STEL	1468 mg/m³
	400 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	500 mg/m³
	150 ppm
OEL STEL	1100 mg/m³
	300 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	730 mg/m³
	200 ppm
HTP (OEL STEL)	1470 mg/m³
	400 ppm

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ethyl acetate (141-78-6)	
France - Occupational Exposure Limits	
VME (OEL TWA)	734 mg/m ³ (restrictive limit)
	200 ppm (restrictive limit)
VLE (OEL C/STEL)	1468 mg/m ³ (restrictive limit)
	400 ppm (restrictive limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	730 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar - Occupational Exposure Limits	
OEL TWA	200 mg/m ³
	734 ppm
OEL STEL	400 mg/m ³
	1468 ppm
Greece - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	734 mg/m ³
CK (OEL STEL)	1468 mg/m ³
OEL chemical category	Sensitizer
Ireland - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Italy - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	200 mg/m ³
	54 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	500 mg/m ³
	150 ppm

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ethyl acetate (141-78-6)	
NRV (OEL C)	1100 mg/m ³
	300 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Malta - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	734 mg/m ³
	200 ppm
TGG-15min (OEL STEL)	1468 mg/m ³
	400 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	734 mg/m ³
NDSch (OEL STEL)	1468 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	734 mg/m ³ (indicative limit value)
	200 ppm (indicative limit value)
OEL STEL	1468 mg/m ³ (indicative limit value)
	400 ppm (indicative limit value)
Romania - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	734 mg/m ³
	200 ppm
NPHV (OEL C)	1100 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm

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ethyl acetate (141-78-6)	
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	734 mg/m ³
	200 ppm
VLA-EC (OEL STEL)	1468 mg/m ³
	400 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	550 mg/m ³
	150 ppm
KGV (OEL STEL)	1100 mg/m ³
	300 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	734 mg/m ³
	200 ppm
WEL STEL (OEL STEL)	1468 mg/m ³
	400 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	734 mg/m ³
	200 ppm
Korttidsverdi (OEL STEL)	1468 mg/m ³ (value from the regulation)
	400 ppm (value from the regulation)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	730 mg/m ³
	200 ppm
KZGW (OEL STEL)	1460 mg/m ³
	400 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	400 ppm
2-furaldehyde (98-01-1)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	20 mg/m ³
	5 ppm
OEL chemical category	Skin notation, Group B Carcinogen
Belgium - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
	2 ppm
OEL chemical category	Skin
Bulgaria - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (Furfurol)

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2-furaldehyde (98-01-1)	
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	8 mg/m³
	2 ppm
KGVII (OEL STEL)	20 mg/m³
	5 ppm
OEL chemical category	Skin notation
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	10 mg/m³
OEL chemical category	Potential for cutaneous absorption
Denmark - Occupational Exposure Limits	
OEL TWA	7.9 mg/m³
	2 ppm
OEL STEL	15.8 mg/m³
	4 ppm
OEL chemical category	Potential for cutaneous absorption
Estonia - Occupational Exposure Limits	
OEL TWA	8 mg/m³
	2 ppm
OEL STEL	20 mg/m³
	5 ppm
OEL chemical category	Skin notation
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	8 mg/m³
	2 ppm
HTP (OEL STEL)	20 mg/m³
	5 ppm
OEL chemical category	Potential for cutaneous absorption
France - Occupational Exposure Limits	
VLE (OEL C/STEL)	8 mg/m³
	2 ppm
OEL chemical category	Carcinogen category 2
France - Biological limit values	
BLV	Parameter: Total furoic acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
Greece - Occupational Exposure Limits	
OEL TWA	20 mg/m³
	5 ppm
OEL STEL	40 mg/m³

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2-furaldehyde (98-01-1)	
	10 ppm
OEL chemical category	skin - potential for cutaneous absorption
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	8 mg/m ³
CK (OEL STEL)	20 mg/m ³
OEL chemical category	Sensitizer, Potential for cutaneous absorption
Ireland - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
	2 ppm
OEL STEL	20 mg/m ³
	5 ppm
OEL chemical category	Potential for cutaneous absorption
Latvia - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	8 mg/m ³
	2 ppm
TPRV (OEL STEL)	20 mg/m ³
	5 ppm
OEL chemical category	Carcinogen, Skin notation
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	10 mg/m ³
NDSch (OEL STEL)	25 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	2 ppm
OEL chemical category	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure
Romania - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
	2.5 ppm
OEL STEL	15 mg/m ³
	4 ppm
OEL chemical category	C2
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	7.9 mg/m ³
	2 ppm
OEL chemical category	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	8 mg/m ³

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2-furaldehyde (98-01-1)	
	2 ppm
OEL chemical category	skin - potential for cutaneous absorption
Spain - Biological limit values	
BLV	200 mg/l Parameter: Furoic acid - Medium: urine - Sampling time: end of shift (with hydrolysis)
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	8 mg/m ³
	2 ppm
KGV (OEL STEL)	20 mg/m ³
	5 ppm
OEL chemical category	Skin notation
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	8 mg/m ³
	2 ppm
WEL STEL (OEL STEL)	20 mg/m ³
	5 ppm
WEL chemical category	Potential for cutaneous absorption
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	8 mg/m ³
	2 ppm
Korttidsverdi (OEL STEL)	16 mg/m ³ (value calculated)
	4 ppm (value calculated)
OEL chemical category	Skin notation
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	8 mg/m ³
	2 ppm
OEL chemical category	Skin notation
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.2 ppm
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route
USA - ACGIH - Biological Exposure Indices	
BEI	200 mg/l Parameter: Furoic acid with hydrolysis - Medium: urine - Sampling time: end of shift (nonspecific)
isobutyl acetate (110-19-0)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	241 mg/m ³ (Butyl acetates)
	50 ppm (Butyl acetates)
MAK (OEL STEL)	480 mg/m ³ (Butyl acetate)
	100 ppm (Butyl acetate)

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isobutyl acetate (110-19-0)	
Belgium - Occupational Exposure Limits	
OEL TWA	238 mg/m³
	50 ppm
OEL STEL	712 mg/m³
	150 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	241 mg/m³
	50 ppm
OEL STEL	723 mg/m³
	150 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	241 mg/m³
	50 ppm
KGVI (OEL STEL)	723 mg/m³
	150 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	241 mg/m³
	50 ppm
OEL STEL	723 mg/m³
	150 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	241 mg/m³
Denmark - Occupational Exposure Limits	
OEL TWA	241 mg/m³ (Butyl acetate, all isomers)
	50 ppm (Butyl acetate, all isomers)
OEL STEL	723 mg/m³
	150 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	241 mg/m³
	50 ppm
OEL STEL	723 mg/m³
	150 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	240 mg/m³ (Butyl acetate)
	50 ppm (Butyl acetate)
HTP (OEL STEL)	725 mg/m³ (Butyl acetate)
	150 ppm (Butyl acetate)
France - Occupational Exposure Limits	
VME (OEL TWA)	241 mg/m³ (restrictive limit)

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isobutyl acetate (110-19-0)	
	50 ppm (restrictive limit)
VLE (OEL C/STEL)	723 mg/m ³ (restrictive limit)
	150 ppm (restrictive limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	300 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	62 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	241 mg/m ³
CK (OEL STEL)	723 mg/m ³
OEL chemical category	Sensitizer
Ireland - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³ (calculated)
	150 ppm (calculated)
Italy - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	241 mg/m ³
	50 ppm
TPRV (OEL STEL)	723 mg/m ³
	150 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm

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isobutyl acetate (110-19-0)	
Malta - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	241 mg/m ³
	50 ppm
TGG-15min (OEL STEL)	723 mg/m ³
	150 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	240 mg/m ³
NDSch (OEL STEL)	720 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	241 mg/m ³ (indicative limit value)
	50 ppm (indicative limit value)
OEL STEL	723 mg/m ³ (indicative limit value)
	150 ppm (indicative limit value)
Romania - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	480 mg/m ³
	100 ppm
NPHV (OEL C)	700 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	241 mg/m ³
	50 ppm
VLA-EC (OEL STEL)	723 mg/m ³
	150 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	241 mg/m ³ (Butyl acetates)

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isobutyl acetate (110-19-0)	
	50 ppm (Butyl acetates)
KGV (OEL STEL)	723 mg/m ³ (Butyl acetates)
	150 ppm (Butyl acetates)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	724 mg/m ³
	150 ppm
WEL STEL (OEL STEL)	903 mg/m ³
	187 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	241 mg/m ³
	50 ppm
Korttidsverdi (OEL STEL)	723 mg/m ³ (value from the regulation)
	150 ppm (value from the regulation)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	240 mg/m ³
	50 ppm
KZGW (OEL STEL)	720 mg/m ³
	150 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	50 ppm (Butyl acetates, all isomers)
ACGIH OEL STEL	150 ppm (Butyl acetates, all isomers)
Amyl formate (638-49-3)	
Latvia - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
Lithuania - Occupational Exposure Limits	
TPRV (OEL STEL)	10 mg/m ³
OEL chemical category	Skin notation
ethyl formate (109-94-4)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	300 mg/m ³
	100 ppm
MAK (OEL STEL)	600 mg/m ³
	200 ppm
OEL chemical category	Skin notation
Belgium - Occupational Exposure Limits	
OEL STEL	303 mg/m ³
	100 ppm

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ethyl formate (109-94-4)	
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	308 mg/m ³
	100 ppm
KGVI (OEL STEL)	462 mg/m ³
	150 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	300 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA	300 mg/m ³
	100 ppm
OEL STEL	600 mg/m ³
	200 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	310 mg/m ³
	100 ppm
HTP (OEL STEL)	460 mg/m ³
	150 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	300 mg/m ³
	100 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	310 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	100 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	Skin notation
Greece - Occupational Exposure Limits	
OEL TWA	300 mg/m ³
	100 ppm
OEL STEL	450 mg/m ³
	150 ppm
Ireland - Occupational Exposure Limits	
OEL TWA	300 mg/m ³
	100 ppm
OEL STEL	100 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	250 mg/m ³
NDSch (OEL STEL)	500 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	100 ppm

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ethyl formate (109-94-4)	
Romania - Occupational Exposure Limits	
OEL TWA	200 mg/m³
	66 ppm
OEL STEL	300 mg/m³
	99 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	310 mg/m³
	100 ppm
OEL chemical category	Potential for cutaneous absorption
Slovenia - Occupational Exposure Limits	
OEL TWA	310 mg/m³
	100 ppm
OEL STEL	310 mg/m³
	100 ppm
OEL chemical category	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	308 mg/m³
	100 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	308 mg/m³
	100 ppm
WEL STEL (OEL STEL)	462 mg/m³
	150 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	150 mg/m³
	50 ppm
Korttidsverdi (OEL STEL)	187.5 mg/m³ (value calculated)
	75 ppm (value calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	310 mg/m³
	100 ppm
KZGW (OEL STEL)	310 mg/m³
	100 ppm
OEL chemical category	Skin notation
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL STEL	100 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen

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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)
	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

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isopentyl acetate (123-92-2)	
	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	270 mg/m ³ (Pentyl acetate)
	50 ppm (Pentyl acetate)
HTP (OEL STEL)	540 mg/m ³
	100 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	270 mg/m ³ (restrictive limit)
	50 ppm (restrictive limit)
VLE (OEL C/STEL)	540 mg/m ³ (restrictive limit)
	100 ppm (restrictive limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	270 mg/m ³
	50 ppm
Gibraltar - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Greece - Occupational Exposure Limits	
OEL TWA	530 mg/m ³
	100 ppm
OEL STEL	800 mg/m ³
	150 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	270 mg/m ³
CK (OEL STEL)	540 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA	260 mg/m ³
	50 ppm
OEL STEL	520 mg/m ³
	100 ppm
Italy - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	270 mg/m ³

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isopentyl acetate (123-92-2)	
	50 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	270 mg/m ³
	50 ppm
TPRV (OEL STEL)	540 mg/m ³
	100 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Malta - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Netherlands - Occupational Exposure Limits	
TGG-15min (OEL STEL)	530 mg/m ³
	98.1 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	250 mg/m ³
NDSch (OEL STEL)	500 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	270 mg/m ³ (indicative limit value)
	50 ppm (indicative limit value (Pentyl acetate, all isomers))
OEL STEL	540 mg/m ³ (indicative limit value)
	100 ppm (indicative limit value)
Romania - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	270 mg/m ³
	50 ppm
NPHV (OEL C)	540 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm

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isopentyl acetate (123-92-2)	
OEL STEL	540 mg/m ³
	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	270 mg/m ³ (indicative limit value)
	50 ppm (indicative limit value)
VLA-EC (OEL STEL)	540 mg/m ³
	100 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	270 mg/m ³ (Pentyl acetates)
	50 ppm (Pentyl acetates)
KGV (OEL STEL)	540 mg/m ³ (Pentyl acetates)
	100 ppm (Pentyl acetates)
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	260 mg/m ³
	50 ppm
Korttidsverdi (OEL STEL)	325 mg/m ³ (value calculated)
	75 ppm (value calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	260 mg/m ³ (Pentyl acetate all isomers)
	50 ppm (Pentyl acetate all isomers)
KZGW (OEL STEL)	260 mg/m ³ (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)
acetophenone (98-86-2)	
Belgium - Occupational Exposure Limits	
OEL TWA	50 mg/m ³
	10 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA	49 mg/m ³
	10 ppm
OEL STEL	98 mg/m ³
	20 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	25 mg/m ³
	5 ppm

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acetophenone (98-86-2)	
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	50 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA	49 mg/m³
	10 ppm
OEL STEL	147 mg/m³ (calculated)
	30 ppm (calculated)
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5 mg/m³
OEL chemical category	Skin notation
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	50 mg/m³
NDSch (OEL STEL)	100 mg/m³
Portugal - Occupational Exposure Limits	
OEL TWA	10 ppm
Romania - Occupational Exposure Limits	
OEL TWA	100 mg/m³
	20 ppm
OEL STEL	200 mg/m³
	41 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	50 mg/m³
	10 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 ppm

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.

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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

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	: light yellow. amber. Conforms to standard.
Odour	: characteristic. characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 93.3 °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	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0.94
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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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 : 6.84782328 % (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

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon dioxide.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Ethylene brassylate (105-95-3)	
LD50 oral rat	> 5000 mg/kg (Source: ECHA)
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA)
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)
Linalool (78-70-6)	
LD50 oral	2790 mg/kg bodyweight
1,2-Cyclopentanedione, 3-methyl- (765-70-8)	
LD50 oral	1067 mg/kg bodyweight
benzaldehyde (100-52-7)	
LD50 oral rat	1292 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	> 1250 mg/kg (Source: JAPAN_GHS)

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Ethyl acetoacetate (141-97-9)	
LD50 oral rat	3980 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 5000 mg/kg (Source: NLM_CIP)
benzyl alcohol (100-51-6)	
LD50 oral rat	1230 mg/kg (Source: NLM_CIP)
LD50 oral	1570 mg/kg
1,2-Propanediol (57-55-6)	
LD50 oral rat	20 g/kg (Source: NLM_CIP)
LD50 dermal rabbit	20800 mg/kg (Source: NLM_CIP)
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)
2-methylpropan-1-ol; iso-butanol (78-83-1)	
LD50 oral rat	2460 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	3400 mg/kg (Source: NLM_CIP)
LD50 dermal	2460 mg/kg
LC50 Inhalation - Rat	> 18.18 mg/l (Exposure time: 6 h Source: ECHA_API)
Acetyl Propionyl (600-14-6)	
LD50 oral rat	3 g/kg (Source: NLM_CIP)
LD50 oral	3000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg (Source: NIOSH)
LD50 dermal	2500 mg/kg bodyweight
ethyl acetate (141-78-6)	
LD50 oral rat	5620 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 18000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat [ppm]	4000 ppm/4h
2-furaldehyde (98-01-1)	
LD50 oral rat	125 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	500 – 1000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	756 mg/m³ (Exposure time: 1 h Source: WHO)
LC50 Inhalation - Rat (Vapours)	1 mg/l
isobutyl acetate (110-19-0)	
LD50 oral rat	15400 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	> 17400 mg/kg (Source: NLM_CIP)
Amyl formate (638-49-3)	
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)

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ethyl formate (109-94-4)	
LD50 oral rat	1850 mg/kg (Source: JAPAN_GHS)
LD50 oral	1850 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat (Vapours)	11 mg/l/4h
Cinnamic alcohol (104-54-1)	
LD50 oral	2000 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
Heliotropine (120-57-0)	
LD50 oral rat	2700 mg/kg (Source: NLM_CIP)
LD50 oral	2700 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg (Source: ECHA_API)
acetophenone (98-86-2)	
LD50 oral rat	900 mg/kg (Source: JAPAN_GHS)
LD50 oral	500 mg/kg bodyweight
LD50 dermal rat	3300 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Benzyl acetate (140-11-4)	
IARC group	3 - Not classifiable
2-furaldehyde (98-01-1)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
2-methylpropan-1-ol; iso-butanol (78-83-1)	
STOT-single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.
2-furaldehyde (98-01-1)	
STOT-single exposure	May cause respiratory irritation.
isobutyl acetate (110-19-0)	
STOT-single exposure	May cause drowsiness or dizziness.
Amyl formate (638-49-3)	
STOT-single exposure	May cause respiratory irritation.
ethyl formate (109-94-4)	
STOT-single exposure	May cause respiratory irritation.

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STOT-repeated exposure : Not classified

Acetyl Propionyl (600-14-6)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard : Not classified

Heliotropine (120-57-0)

Viscosity, kinematic	Not applicable
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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 : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Ethyl maltol (4940-11-8)

LC50 - Fish [1]	> 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: ECHA)
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Linalool (78-70-6)

EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
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benzaldehyde (100-52-7)

LC50 - Fish [1]	10.6 – 11.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
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LC50 - Fish [2]	12.69 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)
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Ethyl acetoacetate (141-97-9)

LC50 - Fish [1]	298 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: IUCLID)
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LC50 - Fish [2]	290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
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EC50 - Crustacea [1]	646 mg/l (Exposure time: 48 h - Species: Daphnia magna)
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EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)
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benzyl alcohol (100-51-6)

LC50 - Fish [1]	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
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LC50 - Fish [2]	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
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EC50 - Crustacea [1]	23 mg/l (Exposure time: 48 h - Species: water flea)
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1,2-Propanediol (57-55-6)

LC50 - Fish [1]	51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)
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LC50 - Fish [2]	41 – 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
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EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
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1,2-Propanediol (57-55-6)	
EC50 96h - Algae [1]	19000 mg/l (Species: Pseudokirchneriella subcapitata)
2-methylpropan-1-ol; iso-butanol (78-83-1)	
LC50 - Fish [1]	375 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
LC50 - Fish [2]	1370 – 1670 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	1300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	1070 – 1933 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
ethyl acetate (141-78-6)	
LC50 - Fish [1]	220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: IUCLID)
EC50 - Crustacea [1]	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
2-furaldehyde (98-01-1)	
LC50 - Fish [1]	13.4 – 19.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
LC50 - Fish [2]	16.79 – 26.35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
isobutyl acetate (110-19-0)	
LC50 - Fish [1]	17 mg/l (Exposure time: 96 h - Species: Oryzias latipes Source: ECHA)
Heliotropine (120-57-0)	
LC50 - Fish [1]	2.5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static] Source: ECHA)
acetophenone (98-86-2)	
LC50 - Fish [1]	162 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	155 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
12.2. Persistence and degradability	
VANILLA RHUM BRULEE #EU44358F	
Persistence and degradability	Not established.
Ethylene brassylate (105-95-3)	
Persistence and degradability	Rapidly degradable
Ethyl maltol (4940-11-8)	
Persistence and degradability	Rapidly degradable
Linalool (78-70-6)	
Persistence and degradability	Rapidly degradable
1,2-Cyclopentanedione, 3-methyl- (765-70-8)	
Persistence and degradability	Rapidly degradable

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benzaldehyde (100-52-7)	
Persistence and degradability	Rapidly degradable
Ethyl acetoacetate (141-97-9)	
Persistence and degradability	Rapidly degradable
benzyl alcohol (100-51-6)	
Persistence and degradability	Rapidly degradable
1,2-Propanediol (57-55-6)	
Persistence and degradability	Rapidly degradable
Benzyl acetate (140-11-4)	
Persistence and degradability	Rapidly degradable
2-methylpropan-1-ol; iso-butanol (78-83-1)	
Persistence and degradability	Rapidly degradable
Acetyl Propionyl (600-14-6)	
Persistence and degradability	Rapidly degradable
ethyl acetate (141-78-6)	
Persistence and degradability	Rapidly degradable
2-furaldehyde (98-01-1)	
Persistence and degradability	Rapidly degradable
isobutyl acetate (110-19-0)	
Persistence and degradability	Rapidly degradable
Amyl formate (638-49-3)	
Persistence and degradability	Rapidly degradable
ethyl formate (109-94-4)	
Persistence and degradability	Rapidly degradable
isopentyl acetate (123-92-2)	
Persistence and degradability	Rapidly degradable
Cinnamic alcohol (104-54-1)	
Persistence and degradability	Rapidly degradable
Heliotropine (120-57-0)	
Persistence and degradability	Rapidly degradable
acetophenone (98-86-2)	
Persistence and degradability	Rapidly degradable
12.3. Bioaccumulative potential	
VANILLA RHUM BRULEE #EU44358F	
Bioaccumulative potential	Not established.

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Ethylene brassylate (105-95-3)	
Partition coefficient n-octanol/water (Log Pow)	4.3 (at 25 °C (at pH 6.4-7)
Ethyl maltol (4940-11-8)	
Partition coefficient n-octanol/water (Log Pow)	2.9 (at 25 °C)
benzaldehyde (100-52-7)	
BCF - Fish [1]	(no significant bioaccumulation)
Partition coefficient n-octanol/water (Log Pow)	1.4 (at 25 °C)
Ethyl acetoacetate (141-97-9)	
Partition coefficient n-octanol/water (Log Pow)	0.8 (at 20 °C)
benzyl alcohol (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	1.05
1,2-Propanediol (57-55-6)	
BCF - Fish [1]	(1 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	-1.07 (at 20.5 °C (at pH >=6.2-<=6.4)
Benzyl acetate (140-11-4)	
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7)
2-methylpropan-1-ol; iso-butanol (78-83-1)	
BCF - Fish [1]	(no bioconcentration expected)
Partition coefficient n-octanol/water (Log Pow)	1 (at 25 °C (at pH 7)
ethyl acetate (141-78-6)	
BCF - Fish [1]	(30 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	0.73 (at 20 °C (at pH 7)
2-furaldehyde (98-01-1)	
Partition coefficient n-octanol/water (Log Pow)	0.67
isobutyl acetate (110-19-0)	
BCF - Fish [1]	(no significant bioconcentration)
Partition coefficient n-octanol/water (Log Pow)	2.3 (at 25 °C (at pH 7)
Amyl formate (638-49-3)	
Partition coefficient n-octanol/water (Log Pow)	2.786 (at 25 °C)
ethyl formate (109-94-4)	
BCF - Fish [1]	(will not bioconcentrate)
Partition coefficient n-octanol/water (Log Pow)	1.504 (at 25 °C (at pH 4.61)
isopentyl acetate (123-92-2)	
Partition coefficient n-octanol/water (Log Pow)	2.7 (at 35 °C)
Cinnamic alcohol (104-54-1)	
Partition coefficient n-octanol/water (Log Pow)	1.636 (at 27 °C (at pH 3.52)

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Heliotropine (120-57-0)

Partition coefficient n-octanol/water (Log Pow)	1.2 (at 35 °C)
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acetophenone (98-86-2)

Partition coefficient n-octanol/water (Log Pow)	1.63 – 1.65
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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	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecological information	: Avoid release to the environment.
HP Code	: 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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

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Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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)	2-methylpropan-1-ol; iso-butanol ; Acetyl Propionyl ; ethyl acetate ; 2-furaldehyde ; isobutyl acetate ; Amyl formate ; ethyl formate ; isopentyl acetate	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)	VANILLA RHUM BRULEE #EU44358F ; Linalool ; benzaldehyde ; benzyl alcohol ; 2-methylpropan-1-ol; iso-butanol ; Acetyl Propionyl ; ethyl acetate ; 2-furaldehyde ; isobutyl acetate ; Amyl formate ; ethyl formate ; acetophenone	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)	VANILLA RHUM BRULEE #EU44358F ; Ethylene brassylate ; Benzyl acetate ; 2-furaldehyde	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.	2-methylpropan-1-ol; iso-butanol ; Acetyl Propionyl ; ethyl acetate ; 2-furaldehyde ; isobutyl acetate ; Amyl formate ; ethyl formate ; isopentyl acetate	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

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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)

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 : 6.84782328 % (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 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)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Piperonal		120-57-0	2932 93 00	Category 1		Annex I

15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 74	Occupational disorders caused by furfural and furfuryl alcohol
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

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Classification remarks : 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

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
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
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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.