

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

1.1. Product identifier

Product form	: Mixture
Trade name	: BLACK SEA FR41187
Product code	: FR41187
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
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

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]

Acute toxicity (oral) Category 4	H302
Skin corrosion/irritation Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitization, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard Category 2	H411
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

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Contains	: Benzyl benzoate; Linalyl acetate; Benzyl salicylate; Linalool; Hydroxy; COUMARIN; Allyl amyl glycolate; Eugenol; beta-Caryophyllene; Camphor; trans-Anethole; Orange oil ; Geranyl acetate; Triplal (Vertocitral); Aldehyde C-16; Cedryl acetate; Geraniol; Nerol; Neryl acetate; Eucalyptus oil; Majantol
Hazard statements (CLP)	: H302 - Harmful if swallowed. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapors/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. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Extra phrases	: Restricted to professional users.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ 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 is 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]
Bis(2-ethylhexyl) adipate substance with national workplace exposure limit(s) (PL)	CAS-No.: 103-23-1 EC-No.: 203-090-1 REACH-no: 01-2119439699-19	10.2 – 20.4	Not classified
Benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371-33	6.8 – 13.6	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Dihydromyrcenol	CAS-No.: 18479-58-8 EC-No.: 242-362-4 REACH-no: 01-2119457274-37	6.1 – 12.16	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Linalyl acetate	CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789-19	5.1 – 10.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Benzyl salicylate	CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442-31	4.4 – 8.71	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	2.5 – 4.93	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Hydroxy	CAS-No.: 107-75-5 EC-No.: 203-518-7 REACH-no: 01-2119973482-31	2.1 – 4.2888	Eye Irrit. 2, H319 Skin Sens. 1B, H317
COUMARIN	CAS-No.: 91-64-5 EC-No.: 202-086-7 REACH-no: 01-2119943756-26	2 – 4.08	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, 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	1.5 – 3.06	Aquatic Chronic 3, H412
Allyl amyl glycolate	CAS-No.: 67634-00-8 EC-No.: 266-803-5	1 – 2.04	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Acute Tox. 2 (Inhalation), H330
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802-33	0.6 – 1.28	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
beta-Caryophyllene	CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237-53	0.6 – 1.11	Skin Sens. 1B, H317 Asp. Tox. 1, H304
Camphor substance with national workplace exposure limit(s) (AT, BE, BG, DK, ES, FI, FR, GB, GR, HR, IE, LT, PL, PT, RO, SK, NO, CH)	CAS-No.: 76-22-2 EC-No.: 200-945-0	0.6 – 1.11	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371 Aquatic Chronic 2, H411
Terpineol	CAS-No.: 8000-41-7 EC-No.: 232-268-1	0.6 – 1.11	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Carbitol substance with national workplace exposure limit(s) (AT, DE, EE, SE, SI, CH)	CAS-No.: 111-90-0 EC-No.: 203-919-7 REACH-no: 01-2119475105-42	0.5 – 1.09	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	0.4 – 0.77	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
trans-Anethole	CAS-No.: 4180-23-8 EC-No.: 224-052-0	0.3 – 0.6	Skin Sens. 1B, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Baccanol	CAS-No.: 28219-61-6 EC-No.: 248-908-8 REACH-no: 01-2119529224-45	0.3 – 0.6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 1, H410
Orange oil	CAS-No.: 8008-57-9 EC-No.: 232-433-8 REACH-no: 01-2119493353-35	0.2 – 0.34	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Geranyl acetate	CAS-No.: 105-87-3 EC-No.: 203-341-5 REACH-no: 01-2119973480-35	0.2 – 0.34	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Triplal (Vertocitral)	CAS-No.: 68039-49-6 EC-No.: 268-264-1	0.2 – 0.34	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Aldehyde C-16	CAS-No.: 77-83-8 EC-No.: 201-061-8 REACH-no: 01-2119967770-28	0.2 – 0.31	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Cedryl acetate	CAS-No.: 77-54-3 EC-No.: 201-036-1	0.2 – 0.3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Sens. 1B, H317
Neryl acetate	CAS-No.: 141-12-8 EC-No.: 205-459-2	0.1 – 0.17	Skin Sens. 1B, H317
Eucalyptus oil	CAS-No.: 8000-48-4 EC-No.: 283-406-2 REACH-no: 01-2119978250-37	0.1 – 0.17	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Majantol	CAS-No.: 103694-68-4 EC-No.: 403-140-4 EC Index-No.: 603-138-00-5	0.1 – 0.1675	Skin Sens. 1, H317 Aquatic Chronic 3, H412
Geraniol	CAS-No.: 106-24-1 EC-No.: 203-377-1 EC Index-No.: 603-241-00-5 REACH-no: 01-2119552430-49	0.06 – 0.156	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Caproic acid substance with national workplace exposure limit(s) (BG, LT, LV)	CAS-No.: 142-62-1 EC-No.: 205-550-7	0.1 – 0.14	Eye Dam. 1, H318 Skin Corr. 1C, H314
Nerol	CAS-No.: 106-25-2 EC-No.: 203-378-7	0.04 – 0.104	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Butylated hydroxytoluene (BHT) crystals substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, ES, FI, FR, GB, GR, HR, IE, PT, SI, CH)	CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119480433-40	0 – 0.09	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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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). Call a poison center/doctor/physician 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, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. 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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician 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	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

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	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
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 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	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
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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".
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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.

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

6.4. Reference to other sections

See Heading 8. 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. 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 vapor. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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 in a well-ventilated place. Keep cool.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : 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.

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
Benzyl acetate (140-11-4)	
Belgium - Occupational Exposure Limits	
OEL TWA	62 mg/m³
OEL TWA [ppm]	10 ppm

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Benzyl acetate (140-11-4)	
Denmark - Occupational Exposure Limits	
OEL TWA [1]	61 mg/m ³
OEL TWA [2]	10 ppm
OEL STEL	122 mg/m ³
OEL STEL [ppm]	20 ppm
Ireland - Occupational Exposure Limits	
OEL TWA [2]	10 ppm
OEL STEL [ppm]	30 ppm (calculated)
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA [ppm]	10 ppm
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
Romania - Occupational Exposure Limits	
OEL TWA	50 mg/m ³
OEL TWA [ppm]	8 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	13 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	62 mg/m ³
VLA-ED (OEL TWA) [2]	10 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	10 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Camphor (76-22-2)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	13 mg/m ³
MAK (OEL TWA) [ppm]	2 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	12 mg/m ³
OEL TWA [ppm]	2 ppm
OEL STEL	19 mg/m ³
OEL STEL [ppm]	3 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	12 mg/m ³
OEL STEL	18 mg/m ³

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Camphor (76-22-2)	
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	13 mg/m ³
GVI (OEL TWA) [2]	2 ppm
KGVI (OEL STEL)	19 mg/m ³
KGVI (OEL STEL) [ppm]	3 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	12 mg/m ³
OEL TWA [2]	2 ppm
OEL STEL	24 mg/m ³
OEL STEL [ppm]	4 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	1.9 mg/m ³
HTP (OEL TWA) [2]	0.3 ppm
HTP (OEL STEL)	5.7 mg/m ³
HTP (OEL STEL) [ppm]	0.9 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	12 mg/m ³
VME (OEL TWA) [ppm]	2 ppm
Greece - Occupational Exposure Limits	
OEL TWA	12 mg/m ³ (inhalable fraction)
OEL STEL	18 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	12 mg/m ³
OEL TWA [2]	2 ppm
OEL STEL	18 mg/m ³
OEL STEL [ppm]	3 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	3 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	12 mg/m ³
NDSch (OEL STEL)	18 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA [ppm]	2 ppm
OEL STEL [ppm]	3 ppm
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
Romania - Occupational Exposure Limits	
OEL TWA	1 mg/m ³
OEL TWA [ppm]	6 ppm
OEL STEL	3 mg/m ³

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Camphor (76-22-2)	
OEL STEL [ppm]	18 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA) [1]	13 mg/m ³
NPHV (OEL TWA) [2]	2 ppm
NPHV (OEL C)	26 mg/m ³
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	13 mg/m ³
VLA-ED (OEL TWA) [2]	2 ppm
VLA-EC (OEL STEL)	19 mg/m ³
VLA-EC (OEL STEL) [ppm]	3 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	13 mg/m ³
WEL TWA (OEL TWA) [2]	2 ppm
WEL STEL (OEL STEL)	19 mg/m ³
WEL STEL (OEL STEL) [ppm]	3 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	12 mg/m ³
Grenseverdi (OEL TWA) [2]	2 ppm
Korttidsverdi (OEL STEL)	18 mg/m ³ (value calculated)
Korttidsverdi (OEL STEL) [ppm]	4 ppm (value calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	13 mg/m ³ (aerosol, vapour)
MAK (OEL TWA) [2]	2 ppm (aerosol, vapour)
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	2 ppm (synthetic)
ACGIH OEL STEL [ppm]	3 ppm (synthetic)
ACGIH chemical category	Not Classifiable as a Human Carcinogen synthetic
Carbitol (111-90-0)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	35 mg/m ³
MAK (OEL TWA) [ppm]	6 ppm
MAK (OEL STEL)	140 mg/m ³
MAK (OEL STEL) [ppm]	24 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	50.1 mg/m ³
OEL TWA [ppm]	10 ppm
OEL chemical category	skin notation

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Carbitol (111-90-0)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	35 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	6 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Slovenia - Occupational Exposure Limits	
OEL TWA	35 mg/m ³
OEL TWA [ppm]	6 ppm
OEL STEL	70 mg/m ³
OEL STEL [ppm]	12 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	80 mg/m ³
NGV (OEL TWA) [ppm]	15 ppm
KTV (OEL STEL)	170 mg/m ³
KTV (OEL STEL) [ppm]	30 ppm
OEL chemical category	skin notation
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	50 mg/m ³ (aerosol, inhalable dust, vapour)
KZGW (OEL STEL)	100 mg/m ³ (aerosol, inhalable dust, vapour)
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) [1]	45 mg/m ³
HTP (OEL TWA) [2]	10 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	22 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	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
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	240 mg/m ³

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Benzyl alcohol (100-51-6)	
Slovenia - Occupational Exposure Limits	
OEL TWA	22 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	44 mg/m ³
OEL STEL [ppm]	10 ppm
OEL chemical category	Potential for cutaneous absorption
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	22 mg/m ³ (aerosol, vapour)
MAK (OEL TWA) [2]	5 ppm (aerosol, vapour)
OEL chemical category	skin notation
Caproic acid (142-62-1)	
Bulgaria - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5 mg/m ³
Butylated hydroxytoluene (BHT) crystals (128-37-0)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	10 mg/m ³
Belgium - Occupational Exposure Limits	
OEL TWA	2 mg/m ³ (aerosol and vapor)
Bulgaria - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
OEL STEL	50 mg/m ³
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	10 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA [1]	10 mg/m ³
OEL STEL	20 mg/m ³
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	10 mg/m ³
HTP (OEL STEL)	20 mg/m ³
France - Occupational Exposure Limits	
VME (OEL TWA)	10 mg/m ³
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	10 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)

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Butylated hydroxytoluene (BHT) crystals (128-37-0)	
Greece - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	2 mg/m ³
OEL STEL	6 mg/m ³ (calculated)
Portugal - Occupational Exposure Limits	
OEL TWA	2 mg/m ³ (inhalable fraction; vapor)
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
Slovenia - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (inhalable fraction)
OEL STEL	40 mg/m ³ (inhalable fraction)
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	10 mg/m ³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	10 mg/m ³
WEL STEL (OEL STEL)	30 mg/m ³ (calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	10 mg/m ³ (no elevated carcinogenic risk by keeping the MAK-value-aerosol, inhalable dust, vapour)
KZGW (OEL STEL)	40 mg/m ³ (aerosol, inhalable dust, vapour)
OEL chemical category	Category C1B carcinogen carcinogenic with threshold value
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ (inhalable fraction and vapor)
ACGIH chemical category	Not Classifiable as a Human Carcinogen

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.

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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
Color	: light yellow. amber. Conforms to standard.
Odor	: characteristic.
Odor threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Explosion limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 92 °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
Vapor pressure	: Not available
Vapor pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapor 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

No additional information available

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

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ATE CLP (oral)	1333.988 mg/kg body weight
Bis(2-ethylhexyl) adipate (103-23-1)	
LD50 oral rat	5600 mg/kg
LD50 dermal rabbit	8410 mg/kg
LC50 Inhalation - Rat	> 5.7 mg/l/4h
Benzyl benzoate (120-51-4)	
LD50 oral rat	500 mg/kg
LD50 oral	1160 mg/kg body weight
LD50 dermal rabbit	4000 mg/kg
Dihydromyrcenol (18479-58-8)	
LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg body weight
LD50 dermal rabbit	> 5 g/kg

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Linalyl acetate (115-95-7)	
LD50 oral rat	14550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Benzyl salicylate (118-58-1)	
LD50 oral rat	2227 mg/kg
LD50 oral	2200 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg
Linalool (78-70-6)	
LD50 oral	2790 mg/kg body weight
Hydroxy (107-75-5)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 2000 mg/kg
COUMARIN (91-64-5)	
LD50 oral rat	> 5000 mg/kg
LD50 oral	290 mg/kg body weight
LD50 dermal rat	293 mg/kg
Benzyl acetate (140-11-4)	
LD50 oral rat	2490 mg/kg
LD50 oral	2490 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg
Allyl amyl glycolate (67634-00-8)	
LD50 oral	500 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	0.43 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	0.5 mg/l/4h
Eugenol (97-53-0)	
LD50 oral rat	1930 mg/kg
LD50 oral	2500 mg/kg body weight
Camphor (76-22-2)	
LD50 oral	1500 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h
Terpineol (8000-41-7)	
LD50 oral rat	2900 mg/kg
LD50 oral	4300 mg/kg body weight
LD50 dermal rabbit	> 3000 mg/kg
Carbitol (111-90-0)	
LD50 oral rat	10502 mg/kg

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Carbitol (111-90-0)	
LD50 dermal rabbit	9143 mg/kg
LC50 Inhalation - Rat	> 5240 mg/m ³ (Exposure time: 4 h)
Benzyl alcohol (100-51-6)	
LD50 oral rat	1230 mg/kg
LD50 oral	1620 mg/kg body weight
LD50 dermal	2500 mg/kg body weight
trans-Anethole (4180-23-8)	
LD50 oral rat	2090 mg/kg
LD50 dermal rabbit	> 4900 mg/kg
LC50 Inhalation - Rat	> 5.1 mg/l/4h
Orange oil (8008-57-9)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Geranyl acetate (105-87-3)	
LD50 oral rat	6330 mg/kg
Triplal (Vertocitral) (68039-49-6)	
LD50 oral	3900 mg/kg body weight
Aldehyde C-16 (77-83-8)	
LD50 oral rat	5470 mg/kg
LD50 dermal rat	> 2000 mg/kg
Cedryl acetate (77-54-3)	
LD50 oral rat	44750 mg/kg
Geraniol (106-24-1)	
LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg body weight
LD50 dermal rabbit	> 5 g/kg
Nerol (106-25-2)	
LD50 oral rat	4500 mg/kg
LD50 oral	4500 mg/kg body weight
LD50 dermal rabbit	> 5 g/kg
Neryl acetate (141-12-8)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 6 ml/kg
Eucalyptus oil (8000-48-4)	
LD50 oral rat	2480 mg/kg
Majantol (103694-68-4)	
LD50 oral	3440 mg/kg body weight

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Majantol (103694-68-4)	
LD50 dermal rabbit	> 5 ml/kg
Caproic acid (142-62-1)	
LD50 oral rat	3 g/kg
LD50 oral	4000 mg/kg body weight
LD50 dermal rabbit	630 mg/kg
Butylated hydroxytoluene (BHT) crystals (128-37-0)	
LD50 oral rat	> 2930 mg/kg
LD50 dermal rat	> 2000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Bis(2-ethylhexyl) adipate (103-23-1)	
IARC group	3 - Not classifiable
COUMARIN (91-64-5)	
IARC group	3 - Not classifiable
Benzyl acetate (140-11-4)	
IARC group	3 - Not classifiable
Eugenol (97-53-0)	
IARC group	3 - Not classifiable
Butylated hydroxytoluene (BHT) crystals (128-37-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Camphor (76-22-2)	
STOT-single exposure	May cause damage to organs.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Benzyl benzoate (120-51-4)	
Viscosity, kinematic	7.456 mm²/s
Orange oil (8008-57-9)	
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

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SECTION 12: Ecological information

12.1. Toxicity

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

Bis(2-ethylhexyl) adipate (103-23-1)	
LC50 - Fish [1]	0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 - Fish [2]	0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	> 1.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)
Benzyl benzoate (120-51-4)	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
NOEC (chronic)	0.168 mg/l
Linalyl acetate (115-95-7)	
LC50 - Fish [1]	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through])
Benzyl salicylate (118-58-1)	
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
Linalool (78-70-6)	
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
Eugenol (97-53-0)	
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
Carbitol (111-90-0)	
LC50 - Fish [1]	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 - Fish [2]	19100 – 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 - Crustacea [1]	3940 – 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Benzyl alcohol (100-51-6)	
LC50 - Fish [1]	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 - Fish [2]	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	23 mg/l (Exposure time: 48 h - Species: water flea)
Aldehyde C-16 (77-83-8)	
LC50 - Fish [1]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
Geraniol (106-24-1)	
LC50 - Fish [1]	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
Nerol (106-25-2)	
LC50 - Fish [1]	20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
Caproic acid (142-62-1)	
LC50 - Fish [1]	306 – 334 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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Caproic acid (142-62-1)	
LC50 - Fish [2]	88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Butylated hydroxytoluene (BHT) crystals (128-37-0)	
EC50 72h - Algae [1]	6 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	> 0.42 mg/l (Species: Desmodesmus subspicatus)
12.2. Persistence and degradability	
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Persistence and degradability	Not established.
Benzyl benzoate (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.
Eucalyptus oil (8000-48-4)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
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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)
Benzyl benzoate (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)
Bioaccumulative potential	Not established.
Dihydromyrcenol (18479-58-8)	
Partition coefficient n-octanol/water (Log Pow)	3.25 (at 40 °C (at pH 7)
Linalyl acetate (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)
Benzyl salicylate (118-58-1)	
Partition coefficient n-octanol/water (Log Pow)	4
Hydroxy (107-75-5)	
Partition coefficient n-octanol/water (Log Pow)	1.68 (at 25 °C)
Benzyl acetate (140-11-4)	
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7)
Allyl amyl glycolate (67634-00-8)	
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 2.3)
Eugenol (97-53-0)	
Partition coefficient n-octanol/water (Log Pow)	1.83 (at 30 °C (at pH 5.5)

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beta-Caryophyllene (87-44-5)	
Partition coefficient n-octanol/water (Log Pow)	6.23 (at 25 °C (at pH 7)
Camphor (76-22-2)	
Partition coefficient n-octanol/water (Log Pow)	2.414 (at 25 °C)
Carbitol (111-90-0)	
Partition coefficient n-octanol/water (Log Pow)	-0.8
Benzyl alcohol (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	1.05
Geranyl acetate (105-87-3)	
Partition coefficient n-octanol/water (Log Pow)	4.04
Aldehyde C-16 (77-83-8)	
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C (cis isomer)
Cedryl acetate (77-54-3)	
Partition coefficient n-octanol/water (Log Pow)	6 (at 25 °C)
Geraniol (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	2.6 (at 25 °C)
Nerol (106-25-2)	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 30 °C (at pH 6.5)
Neryl acetate (141-12-8)	
Partition coefficient n-octanol/water (Log Pow)	3.98 (at 37 °C (at pH 7.2)
Eucalyptus oil (8000-48-4)	
Bioaccumulative potential	Not established.
Majantol (103694-68-4)	
Partition coefficient n-octanol/water (Log Pow)	3.07 (at 20 °C)
Caproic acid (142-62-1)	
Partition coefficient n-octanol/water (Log Pow)	1.88
Butylated hydroxytoluene (BHT) crystals (128-37-0)	
BCF - Fish [1]	230 – 2500
Partition coefficient n-octanol/water (Log Pow)	5.1

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.

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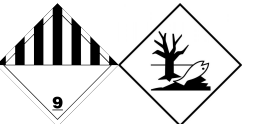
SECTION 13: Disposal considerations

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.
Ecology - waste materials	: Avoid release to the environment.
HP code	: HP3 - "Flammable:" – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
	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.
	HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
	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				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				

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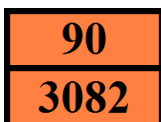
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
III	III	III	III	III
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 available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6
Special provision (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 (ADR) : TP1, TP29
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 and handling (ADR) : CV13
Hazard identification number (Kemler No.) : 90
Orange plates :



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

Transport by sea

Special provision (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
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 provision (IATA) : A97, A158, A197, A215
ERG code (IATA) : 9L

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Inland waterway transport

Classification code (ADN) : M6
Special provision (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 provision (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 (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

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)	Orange oil ; Eucalyptus oil	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

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	BLACK SEA FR41187 ; Benzyl benzoate ; Dihydromyrcenol ; Linalyl acetate ; Benzyl salicylate ; Linalool ; Hydroxy ; Allyl amyl glycolate ; Eugenol ; Terpineol ; Benzyl alcohol ; trans-Anethole ; Bacdanol ; Orange oil ; Geranyl acetate ; Triplal (Vertocitral) ; Aldehyde C-16 ; Cedryl acetate ; Geraniol ; Nerol ; Neryl acetate ; Eucalyptus oil ; Majantol ; 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)	BLACK SEA FR41187 ; Benzyl benzoate ; Benzyl salicylate ; Benzyl acetate ; Bacdanol ; Orange oil ; Geranyl acetate ; Triplal (Vertocitral) ; Aldehyde C-16 ; Cedryl acetate ; Eucalyptus oil ; Majantol	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.	Camphor ; Orange oil ; Eucalyptus oil	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 REACH Annex XIV substances.

REACH Candidate List (SVHC)

Contains no REACH candidate substance

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

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15.1.2. National regulations

Germany

Water hazard class (WGK)

: WGK 2, significant hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510)

: LGK 10 - Combustible liquids.

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 5.1A, LGK 6.2, LGK 7.

Joint storage with restrictions permitted for

: LGK 4.1A, LGK 4.2, LGK 4.3, LGK 5.1B, LGK 5.1C, LGK 5.2.

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.

Hazardous Incident Ordinance (12. BImSchV)

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

Netherlands

ABM category

: A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen

: Allyl amyl glycolate, Terpeneol, Orange oil, Triplal (Vertocitral), Eucalyptus oil are listed

SZW-lijst van mutagene stoffen

: Allyl amyl glycolate, Terpeneol, Orange oil, Triplal (Vertocitral), Eucalyptus oil 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

Storage class (LK)

: LK 10/12 - Liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information

: None.

Full text of H- and EUH-phrases:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4

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Full text of H- and EUH-phrases:	
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 vapor.
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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H371	May cause damage to organs.
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.
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2

The classification complies with : ATP 12

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