

LOVE STRUCK FO-0113

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

1.1. Product identifier

Product form	: Mixture
Product name	: LOVE STRUCK FO-0113
UFI	: GU81-23T2-W009-JVE9
Product code	: FO-0113
Type of product	: Perfumes, fragrances
Product group	: Finished Good

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

1.2.1. Relevant identified uses

Main use category	: Industrial use, Professional 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

Fragrance Orchard

Neutrino,
Albert Road,
Essex CM7 3JQ GB
- United Kingdom

1.4. Emergency telephone number

Emergency number: +44 1376 555185

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 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

[CLP] Hazard pictograms (CLP)



GHS05

GHS07

GHS09

Signal word (CLP)

: Danger

Contains	: Benzyl benzoate; Citronellol Pure; Cyclamal; Citral; Geraniol; Geranyl acetate; Nerol; Helional; Neryl acetate; Lemon oil ; Nerolidol; Linalool
Hazard statements (CLP)	: H302 - Harmful if swallowed. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: 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. P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

2.3. Other hazards

No additional information available

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]
Phenylethyl alcohol	(CAS-No.) 60-12-8 (EC-No.) 200-456-2 (REACH-no) 01-2119963921-31	15.45 – 30.9	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Benzyl benzoate	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9 (REACH-no) 01-2119976371-33	11.8 – 23.6	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Citronellol Pure	(CAS-No.) 106-22-9 (EC-No.) 203-375-0 (REACH-no) 01-2119453995-23	3.6 – 7.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Geraniol	(CAS-No.) 106-24-1 (EC-No.) 203-377-1 (EC Index-No.) 603-241-00-5 (REACH-no) 01-2119552430-49	2.75 – 5.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Phenylethyl phenylacetate	(CAS-No.) 102-20-5 (EC-No.) 203-013-1	2.675 – 5.35	Aquatic Chronic 2, H411
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	2.35 – 4.7	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Rose crystals	(CAS-No.) 90-17-5 (EC-No.) 201-972-0	2.25 – 4.5	Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Nerol	(CAS-No.) 106-25-2 (EC-No.) 203-378-7	1.8 – 3.6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Terpineol	(CAS-No.) 8000-41-7 (EC-No.) 232-268-1	1.8 – 3.6	Skin Irrit. 2, H315 Eye Irrit. 2, H319

Hexamethylindanopyran	(CAS-No.) 1222-05-5 (EC-No.) 214-946-9 (EC Index-No.) 603-212-00-7 (REACH-no) 01-2119488227-29	0.7 – 1.4	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Dimethylbenzyl carbonyl acetate(DMBCA)	(CAS-No.) 151-05-3 (EC-No.) 205-781-3	0.55 – 1.1	Aquatic Chronic 3, H412
Cyclamal	(CAS-No.) 103-95-7 (EC-No.) 203-161-7 (REACH-no) 01-2119970582-32	0.45 – 0.9	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Citral	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6 (EC Index-No.) 605-019-00-3 (REACH-no) 01-2119462829-23	0.4 – 0.8	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Diphenyl oxide substance with a Community workplace exposure limit	(CAS-No.) 101-84-8 (EC-No.) 202-981-2 (REACH-no) 01-2119472545-33	0.4 – 0.8	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Neryl acetate	(CAS-No.) 141-12-8 (EC-No.) 205-459-2	0.4 – 0.8	Skin Sens. 1B, H317
Lemon oil	(CAS-No.) 8008-56-8 (EC-No.) 284-515-8;616-925-3	0.375 – 0.75	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Helional	(CAS-No.) 1205-17-0 (EC-No.) 214-881-6 (REACH-no) 01-2120740119-58	0.35 – 0.7	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Geranyl acetate	(CAS-No.) 105-87-3 (EC-No.) 203-341-5 (REACH-no) 01-2119973480-35	0.325 – 0.65	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Nerolidol	(CAS-No.) 7212-44-4 (EC-No.) 230-597-5	0.15 – 0.3	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Sens. 1B, H317
Rose oxide	(CAS-No.) 16409-43-1 (EC-No.) 240-457-5	0.05 – 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

No additional information available

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

No additional information available

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

No additional information available

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**

Citral (5392-40-5)	
Belgium - Occupational Exposure Limits	
OEL TWA	32 mg/m ³ (vapor and aerosol)
OEL TWA [ppm]	5 ppm (vapor and aerosol)
Chemical category	Skin
Ireland - Occupational Exposure Limits	
OEL TWA [2]	5 ppm
OEL STEL [ppm]	15 ppm (calculated)
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	27 mg/m ³

Citral (5392-40-5)	
NDSch (OEL STEL)	54 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA [ppm]	5 ppm
Chemical category	Sensitizer, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [2]	5 ppm (inhalable fraction and vapor)
Chemical category	Sensitizer, skin - potential for cutaneous absorption
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	5 ppm (inhalable fraction and vapor)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer

Diphenyl oxide (101-84-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	7 mg/m ³
IOEL TWA [ppm]	1 ppm
IOEL STEL	14 mg/m ³
IOEL STEL [ppm]	2 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	7 mg/m ³
MAK (OEL TWA) [ppm]	1 ppm
MAK (OEL STEL)	14 mg/m ³
MAK (OEL STEL) [ppm]	2 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	7 mg/m ³ (vapor)
OEL TWA [ppm]	1 ppm (vapor)
OEL STEL	14 mg/m ³ (vapor)
OEL STEL [ppm]	2 ppm (vapor)
Bulgaria - Occupational Exposure Limits	
OEL TWA	7 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	14 mg/m ³
OEL STEL [ppm]	2 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	7 mg/m ³
GVI (OEL TWA) [2]	1 ppm
KGVI (OEL STEL)	14 mg/m ³
KGVI (OEL STEL) [ppm]	2 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	7 mg/m ³

Diphenyl oxide (101-84-8)	
OEL TWA [ppm]	1 ppm
OEL STEL	14 mg/m ³
OEL STEL [ppm]	2 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	5 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA [1]	7 mg/m ³
OEL TWA [2]	1 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	7 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	14 mg/m ³
OEL STEL [ppm]	2 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	7 mg/m ³
HTP (OEL TWA) [2]	1 ppm
HTP (OEL STEL)	14 mg/m ³
HTP (OEL STEL) [ppm]	2 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	7 mg/m ³
VME (OEL TWA) [ppm]	1 ppm
Chemical category	Risk of cutaneous absorption
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	7.1 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
AGW (OEL TWA) [2]	1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
Gibraltar - Occupational Exposure Limits	
OEL TWA	7 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	14 mg/m ³
OEL STEL [ppm]	200 ppm
Greece - Occupational Exposure Limits	
OEL TWA	7 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	14 mg/m ³
OEL STEL [ppm]	2 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	7 mg/m ³
CK (OEL STEL)	14 mg/m ³

Diphenyl oxide (101-84-8)**Ireland - Occupational Exposure Limits**

OEL TWA [1]	7 mg/m ³ (vapour)
OEL TWA [2]	1 ppm (vapour)
OEL STEL	14 mg/m ³ (vapour)
OEL STEL [ppm]	2 ppm (vapour)

Italy - Occupational Exposure Limits

OEL TWA	7 mg/m ³
OEL TWA [ppm]	1 ppm

Latvia - Occupational Exposure Limits

OEL TWA	7 mg/m ³
OEL TWA [ppm]	1 ppm

Lithuania - Occupational Exposure Limits

IPRV (OEL TWA)	7 mg/m ³
IPRV (OEL TWA) [ppm]	1 ppm
TPRV (OEL STEL)	14 mg/m ³
TPRV (OEL STEL) [ppm]	2 ppm

Luxembourg - Occupational Exposure Limits

OEL TWA	7 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	14 mg/m ³
OEL STEL [ppm]	2 ppm

Malta - Occupational Exposure Limits

OEL TWA	7 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	14 mg/m ³
OEL STEL [ppm]	2 ppm

Netherlands - Occupational Exposure Limits

MAC-TGG (OEL TWA)	7 mg/m ³
MAC-15 (OEL STEL)	14 mg/m ³

Poland - Occupational Exposure Limits

NDS (OEL TWA)	7 mg/m ³
NDSch (OEL STEL)	14 mg/m ³

Portugal - Occupational Exposure Limits

OEL TWA	7 mg/m ³
OEL TWA [ppm]	1 ppm (vapor)
OEL STEL	14 mg/m ³ (indicative limit value)
OEL STEL [ppm]	2 ppm (indicative limit value-vapor)

Romania - Occupational Exposure Limits

OEL TWA	5 mg/m ³
OEL TWA [ppm]	0.7 ppm

Diphenyl oxide (101-84-8)	
OEL STEL	10 mg/m ³
OEL STEL [ppm]	1.4 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA) [1]	7 mg/m ³
NPHV (OEL TWA) [2]	1 ppm
NPHV (OEL C)	7.1 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA	7 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	14 mg/m ³
OEL STEL [ppm]	2 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	7.1 mg/m ³ (vapor)
VLA-ED (OEL TWA) [2]	1 ppm (vapor)
VLA-EC (OEL STEL)	14.2 mg/m ³ (vapor)
VLA-EC (OEL STEL) [ppm]	2 ppm (vapor)
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	7 mg/m ³
NGV (OEL TWA) [ppm]	1 ppm
KTV (OEL STEL)	14 mg/m ³
KTV (OEL STEL) [ppm]	2 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	7.1 mg/m ³ (vapour)
WEL TWA (OEL TWA) [2]	1 ppm (vapour)
WEL STEL (OEL STEL)	21.3 mg/m ³ (calculated-vapour)
WEL STEL (OEL STEL) [ppm]	3 ppm (calculated-vapour)
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	7 mg/m ³
Grenseverdi (OEL TWA) [2]	1 ppm
Korttidsverdi (OEL STEL)	14 mg/m ³ (value from the regulation)
Korttidsverdi (OEL STEL) [ppm]	2 ppm (value from the regulation)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	7 mg/m ³ (aerosol, vapour)
MAK (OEL TWA) [2]	1 ppm (aerosol, vapour)
KZGW (OEL STEL)	14 mg/m ³ (aerosol, vapour)
KZGW (OEL STEL) [ppm]	2 ppm (aerosol, vapour)
Chemical category	Category 2 developmental toxin, Category 2 reproductive toxin
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	1 ppm (vapor)
ACGIH OEL STEL [ppm]	2 ppm (vapor fraction)

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**

No additional information available

8.2.2. Personal protection equipment

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Colour	: light yellow. amber.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 93 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ≈ 1.04
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

LOVE STRUCK FO-0113

ATE CLP (oral)	1505.923 mg/kg bodyweight
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Benzyl benzoate (120-51-4)

LD50 oral rat	500 mg/kg
LD50 oral	1500 mg/kg bodyweight
LD50 dermal rabbit	4000 mg/kg
LD50 dermal	4000 mg/kg bodyweight

Citronellol Pure (106-22-9)

LD50 oral rat	3450 mg/kg
LD50 oral	3450 mg/kg bodyweight
LD50 dermal rabbit	2650 mg/kg
LD50 dermal	2650 mg/kg bodyweight

Cyclamal (103-95-7)

LD50 oral rat	3810 mg/kg
LD50 oral	3810 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg

Citral (5392-40-5)

LD50 oral rat	4960 mg/kg
LD50 dermal rabbit	2250 mg/kg
LD50 dermal	2250 mg/kg bodyweight

Diphenyl oxide (101-84-8)

LD50 oral rat	2450 mg/kg
LD50 oral	2830 mg/kg bodyweight
LD50 dermal rabbit	> 7940 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h

Geraniol (106-24-1)

LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg bodyweight
LD50 dermal rabbit	> 5 g/kg

Dimethylbenzyl carbiny acetate(DMBCA) (151-05-3)

LD50 oral rat	3300 mg/kg
LD50 oral	3300 mg/kg bodyweight

Geranyl acetate (105-87-3)

LD50 oral rat	6330 mg/kg
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Hexamethylindanopyran (1222-05-5)

LD50 oral rat	> 3250 mg/kg
LD50 dermal rabbit	> 3250 mg/kg

Nerol (106-25-2)

LD50 oral rat	4500 mg/kg
LD50 oral	4500 mg/kg bodyweight
LD50 dermal rabbit	> 5 g/kg

Helional (1205-17-0)

LD50 dermal rabbit	> 2000 mg/kg
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Neryl acetate (141-12-8)

LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 6 ml/kg

Rose oxide (16409-43-1)

LD50 oral rat	4300 mg/kg
LD50 oral	4300 mg/kg bodyweight

Lemon oil (8008-56-8)

LD50 oral rat	2840 mg/kg
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Rose crystals (90-17-5)

LD50 oral rat	6800 mg/kg
LD50 dermal rat	> 2000 mg/kg

Phenylethyl phenylacetate (102-20-5)

LD50 oral rat	15 g/kg
LD50 oral	3190 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg

Phenylethyl alcohol (60-12-8)

LD50 oral rat	1609 mg/kg
LD50 oral	1610 mg/kg bodyweight
LD50 dermal rabbit	2535 mg/kg
LD50 dermal	2500 mg/kg bodyweight
LC50 Inhalation - Rat	> 4.63 mg/l/4h

Terpineol (8000-41-7)

LD50 oral rat	2900 mg/kg
LD50 oral	4300 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg

Nerolidol (7212-44-4)

LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 5000 mg/kg

Linalool (78-70-6)

LD50 oral	2790 mg/kg bodyweight
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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

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.

Benzyl benzoate (120-51-4)

LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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NOEC (chronic)	0.168 mg/l
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Citral (5392-40-5)

EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	16 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [1]	19 mg/l (Species: Desmodesmus subspicatus)

Geraniol (106-24-1)

LC50 - Fish [1]	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
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Hexamethylindanopyran (1222-05-5)

LC50 - Fish [1]	0.452 mg/l Wolf, 1996d-27682
LC50 - Other aquatic organisms [1]	> 0.14 mg/l REACH DOSSIER Pimephales promelas
EC50 - Crustacea [2]	260 µg/l REACH Dossier
EC50 - Other aquatic organisms [1]	0.131 mg/l REACH Dossier

Nerol (106-25-2)

LC50 - Fish [1]	20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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Phenylethyl alcohol (60-12-8)

EC50 - Crustacea [1]	287.17 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	490 mg/l (Species: Desmodesmus subspicatus)

Nerolidol (7212-44-4)

LC50 - Fish [1]	1.3 – 1.58 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	1.4 – 2.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

Linalool (78-70-6)

EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
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12.2. Persistence and degradability

Benzyl benzoate (120-51-4)

Persistence and degradability	May cause long-term adverse effects in the environment.
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12.3. Bioaccumulative potential

Benzyl benzoate (120-51-4)

Partition coefficient n-octanol/water (Log Pow)	4
Bioaccumulative potential	Not established.

Citral (5392-40-5)

Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
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Diphenyl oxide (101-84-8)

BCF - Fish [1]	470
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Partition coefficient n-octanol/water (Log Pow)	4.2
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Phenylethyl alcohol (60-12-8)

Partition coefficient n-octanol/water (Log Pow)	1.38 (at 25 °C)
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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. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

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

14.1 UN number

UN-No. (ADR)	: UN 3082
UN-No. (IMDG)	: UN 3082
UN-No. (IATA)	: UN 3082
UN-No. (ADN)	: UN 3082
UN-No. (RID)	: Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (RID) Transport document description (ADR)	: Not regulated
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate), 9, III, (-)
Transport document description (IATA)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate), 9, III, MARINE POLLUTANT
Transport document description (ADN)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate), 9, III
	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate), 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 9
Danger labels (ADR)	: 9



IMDG

Transport hazard class(es) (IMDG) : 9
Danger labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9
Danger labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9
Danger labels (ADN) : 9



RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : No supplementary information available

14.6. Special precautions for user

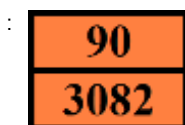
Overland transport

Classification code (ADR) : M6
Special provisions (ADR) : 274, 335, 375, 601
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (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 code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP2, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197
ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6
Special provisions (ADN) : 274, 335, 375, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable on
3(a)	Lemon oil
3(b)	LOVE STRUCK FO-0113 ; Benzyl benzoate ; Citronellol Pure ; Citral ; Cyclamal ; Geranyl acetate ; Geraniol ; Helional ; Linalool ; Lemon oil ; Nerol ; Nerolidol ; Phenylethyl alcohol ; Rose oxide ; Terpineol
3(c)	LOVE STRUCK FO-0113 ; Benzyl benzoate ; Cyclamal ; Dimethylbenzyl carbonyl acetate (DMBCA) ; Hexamethylindanopyran ; Geranyl acetate ; Helional ; Lemon oil ; Nerolidol ; Phenylethyl phenylacetate
40.	Lemon oil

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

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

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

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

Netherlands

SZW-lijst van kankerverwekkende stoffen : Lemon oil ,Terpineol are listed

SZW-lijst van mutagene stoffen : Lemon oil ,Terpineol are listed

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Ontwikkeling

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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
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
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.

H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.