ENGLISH SUMMER FO-0013

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	:	ENGLISH SUMMER FO-0013
UFI	:	UATV-V354-4009-K8XC
Product code	:	FO-0013
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 (0) 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 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

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

2.2. Label elements

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

[CLP] Hazard pictograms (CLP)

GHS07 GHS09

Signal word (CLP)	:	Warning
Hazardous ingredients	:	Benzyl benzoate; Iso E Super; Hydroxy; Citronellol Pure; Vetiveria zizanoides root oil; Eugenol; Neobutenone alpha; Triplal (Vertocitral); Linalool; Grapefruit oil; d-Limonene

Hazard statements (CLP)	:	H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction.
	:	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]
Benzyl benzoate	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9 (REACH-no) 01-2119976371-33	22.145 – 44.29	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Ethylene brassylate	(CAS-No.) 105-95-3 (EC-No.) 203-347-8 (REACH-no) 01-2119967772-24	6.12 – 12.24	Aquatic Chronic 2, H411
Iso E Super	(CAS-No.) 54464-57-2 (EC-No.) 259-174-3 (REACH-no) 01-2119489989-04	5.4 – 10.8	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2	1.275 – 2.55	Not classified
Hydroxy	(CAS-No.) 107-75-5 (EC-No.) 203-518-7 (REACH-no) 01-2119973482-31	0.81 – 1.62	Eye Irrit. 2, H319 Skin Sens. 1B, H317
2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol	(CAS-No.) 63500-71-0 (EC-No.) 405-040-6 (EC Index-No.) 603-101-00-3	0.81 – 1.62	Eye Irrit. 2, H319
3,7-Dimethyl-1,6-nonadien-3-ol	(CAS-No.) 10339-55-6 (EC-No.) 233-732-6	0.675 – 1.35	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Citronellol Pure	(CAS-No.) 106-22-9 (EC-No.) 203-375-0 (REACH-no) 01-2119453995-23	0.515 – 1.03	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Musk ketone	(CAS-No.) 81-14-1 (EC-No.) 201-328-9 (EC Index-No.) 609-069-00-7	0.36 – 0.72	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Triplal (Vertocitral)	(CAS-No.) 68039-49-6 (EC-No.) 268-264-1	0.255 – 0.51	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Grapefruit oil	(CAS-No.) 8016-20-4 (EC-No.) 289-904-6;600-007-4	0.036 – 0.27	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Rose oxide	(CAS-No.) 16409-43-1 (EC-No.) 240-457-5	0.095 – 0.19	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	0.09 – 0.1836	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Vetiveria zizanoides root oil	(CAS-No.) 8016-96-4 (EC-No.) 616-993-4 (REACH-no) 01-2120119716-55	0.09 – 0.18	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Eugenol	(CAS-No.) 97-53-0 (EC-No.) 202-589-1	0.09 – 0.18	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
d-Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 (REACH-no) 01-2119493353-35	0.045 – 0.18	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Neobutenone alpha	(CAS-No.) 56973-85-4 (EC-No.) 260-486-7	0.05 – 0.1	Skin Sens. 1, H317

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : 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 eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects 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 : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Protection during firefighting : 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. 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. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning : Take up liquid spill into absorbent material.
up Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. :
handling 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 : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dipropylene glycol monomethyl ether (34590-94-8)	
EU - Occupational Exposure Limits	
IOELV TWA (mg/m³)	308 mg/m³
IOELV TWA (ppm)	50 ppm
Notes	Possibility of significant uptake through the skin
Austria - Occupational Exposure Limits	
MAK (mg/m³)	307 mg/m³ (mixed isomers)

Dipropylene glycol monomethyl ether (34590-94-8)	
MAK (ppm)	50 ppm (mixed isomers)
MAK Short time value (mg/m³)	614 mg/m³ (isomers mixtures)
MAK Short time value (ppm)	100 ppm (isomers mixtures)
OEL chemical category (AT)	Skin notation
Belgium - Occupational Exposure Limits	
Limit value (mg/m³)	308 mg/m³
Limit value (ppm)	50 ppm
OEL chemical category (BE)	Skin, Skin notation
Bulgaria - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
Croatia - Occupational Exposure Limits	
GVI (granična vrijednost izloženosti) (mg/m³)	308 mg/m³
GVI (granična vrijednost izloženosti) (ppm)	50 ppm
OEL chemical category (HR)	Skin notation
Cyprus - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (CY)	Skin-potential for cutaneous absorption
Czech Republic - Occupational Exposure Limits	
Expoziční limity (PEL) (mg/m³)	270 mg/m³
OEL chemical category (CZ)	Potential for cutaneous absorption
Denmark - Occupational Exposure Limits	
Grænseværdie (langvarig) (mg/m³)	309 mg/m³
Grænseværdie (langvarig) (ppm)	50 ppm
OEL chemical category (DK)	Potential for cutaneous absorption
Estonia - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (ET)	Skin notation
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m³)	310 mg/m³
HTP-arvo (8h) (ppm)	50 ppm
OEL chemical category (FI)	Potential for cutaneous absorption
France - Occupational Exposure Limits	
VME (mg/m³)	308 mg/m³ (restrictive limit)
VME (ppm)	50 ppm (restrictive limit)
OEL chemical category (FR)	Risk of cutaneous absorption
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m³)	310 mg/m³ (isomer mixture)

Dipropylene glycol monomethyl ether (34590-94-8)	
Occupational exposure limit value (ppm)	50 ppm (isomer mixture)
Gibraltar - Occupational Exposure Limits	
Eight hours mg/m3	308 mg/m³
Eight hours ppm	50 ppm
OEL chemical category (GI)	Skin notation
Greece - Occupational Exposure Limits	
OEL TWA (mg/m³)	600 mg/m³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m³)	900 mg/m³
OEL STEL (ppm)	150 ppm
OEL chemical category (GR)	skin - potential for cutaneous absorption
Hungary - Occupational Exposure Limits	
AK-érték	308 mg/m³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	308 mg/m³
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m3)	924 mg/m³ (calculated)
OEL (15 min ref) (ppm)	150 ppm (calculated)
OEL chemical category (IE)	Potential for cutaneous absorption
Italy - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (IT)	skin - potential for cutaneous absorption
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (LV)	skin - potential for cutaneous exposure
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	308 mg/m³
IPRV (ppm)	50 ppm
TPRV (mg/m³)	450 mg/m³
TPRV (ppm)	75 ppm
OEL chemical category (LT)	Skin notation
Luxembourg - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (LU)	Possibility of significant uptake through the skin
Malta - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm

Dipropylene glycol monomethyl ether (34590-94-8)	
OEL chemical category (MT)	Possibility of significant uptake through the skin
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m³)	300 mg/m³
Poland - Occupational Exposure Limits	
NDS (mg/m³)	240 mg/m³ (mixture of isomers: 1-(2-Methoxy-1-methylethoxy)propan-2-ol, 1-(2-Methoxy-2-methylethoxy)propan-2-ol and 2-(2-Methoxy-1-methylethoxy)propan-1-ol)
NDSCh (mg/m³)	480 mg/m³ (mixture of isomers: 1-(2-Methoxy-1-methylethoxy)propan-2-ol, 1-(2-Methoxy-2-methylethoxy)propan-2-ol, 2-(2-Methoxy-1-methylethoxy)propan-1-ol)
Portugal - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³ (indicative limit value)
OEL TWA (ppm)	50 ppm (indicative limit value)
OEL STEL (ppm)	150 ppm
OEL chemical category (PT)	skin - potential for cutaneous exposure indicative limit value
Romania - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (RO)	Skin notation
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m³)	308 mg/m³
NPHV (priemerná) (ppm)	50 ppm
OEL chemical category (SK)	Potential for cutaneous absorption
Slovenia - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m³)	308 mg/m³
OEL STEL (ppm)	50 ppm
OEL chemical category (SI)	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (mg/m³)	308 mg/m³ (indicative limit value)
VLA-ED (ppm)	50 ppm (indicative limit value)
OEL chemical category (ES)	skin - potential for cutaneous absorption
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m³)	300 mg/m³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m³)	450 mg/m³
kortidsvärde (KTV) (ppm)	75 ppm
OEL chemical category (SE)	Skin notation
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	308 mg/m³
WEL TWA (ppm)	50 ppm
WEL STEL (mg/m³)	924 mg/m³ (calculated)

Dipropylene glycol monomethyl ether (34590-94-8)	
WEL STEL (ppm)	150 ppm (calculated)
WEL chemical category	Potential for cutaneous absorption
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m³)	300 mg/m³
Grenseverdier (AN) (ppm)	50 ppm
Grenseverdier (Korttidsverdi) (mg/m3)	375 mg/m³ (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	75 ppm (value calculated)
OEL chemical category (NO)	Skin notation
Switzerland - Occupational Exposure Limits	
MAK (mg/m³)	300 mg/m³ (aerosol, vapour)
MAK (ppm)	50 ppm (aerosol, vapour)
KZGW (mg/m³)	300 mg/m³ (aerosol, vapour)
KZGW (ppm)	50 ppm (aerosol, vapour)
Turkey - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (TR)	Skin notation
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	100 ppm
ACGIH STEL (ppm)	150 ppm
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route

Musk ketone (81-14-1)	
Austria - Occupational Exposure Limits	
OEL chemical category (AT)	Group B Carcinogen

d-Limonene (5989-27-5)	
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m³)	140 mg/m³
HTP-arvo (8h) (ppm)	25 ppm
HTP-arvo (15 min)	280 mg/m³
HTP-arvo (15 min) (ppm)	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m³)	28 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Occupational exposure limit value (ppm)	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, Skin sensitization
Slovenia - Occupational Exposure Limits	
OEL TWA (mg/m³)	28 mg/m³
OEL TWA (ppm)	5 ppm
OEL STEL (mg/m³)	112 mg/m³

d-Limonene (5989-27-5)	
OEL STEL (ppm)	20 ppm
OEL chemical category (SI)	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (mg/m³)	168 mg/m³
VLA-ED (ppm)	30 ppm
OEL chemical category (ES)	Sensitizer, skin - potential for cutaneous absorption
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m³)	140 mg/m³
Grenseverdier (AN) (ppm)	25 ppm
Grenseverdier (Korttidsverdi) (mg/m3)	175 mg/m³ (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	37.5 ppm (value calculated)
OEL chemical category (NO)	Sensitizing substance
Switzerland - Occupational Exposure Limits	
MAK (mg/m³)	40 mg/m³
MAK (ppm)	7 ppm
KZGW (mg/m³)	80 mg/m³
KZGW (ppm)	14 ppm
OEL chemical category (CH)	Sensitizer

8.2. Exposure controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):

Environmental exposure controls: Avoid release to the environment.

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	:	Not applicable
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)	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	≈ 1.15
Solubility	:	No data available
Partition coefficient n-octanol/water (Log	:	No data available
Pow) 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

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

ENGLISH SUMMER	
ATE CLP (oral)	1128.923 mg/kg bodyweight

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

Ethylene brassylate (105-95-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Dipropylene glycol monomethyl ether (34590-94-8)	
LD50 oral rat	5.35 g/kg
LD50 dermal rabbit	9500 mg/kg

Hydroxy (107-75-5)	
LD50 oral rat	> 5 g/kg

3,7-Dimethyl-1,6-nonadien-3-ol (10339-55-6)	
LD50 oral	5000 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

Musk ketone (81-14-1)	
LD50 oral rat	10 g/kg
LD50 dermal rabbit	> 10 g/kg

Triplal (Vertocitral) (68039-49-6)	
LD50 oral	3900 mg/kg bodyweight

Grapefruit oil (8016-20-4)	
LD50 oral rat	> 5 g/kg

d-Limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg

Linalool (78-70-6)	
LD50 oral	2790 mg/kg bodyweight

Rose oxide (16409-43-1)	
LD50 oral rat	4300 mg/kg
LD50 oral	4300 mg/kg bodyweight

Vetiveria zizanoides root oil (8016-96-4)	
LD50 oral rat	> 5 g/kg

Eugenol (97-53-0)	
LD50 oral rat	1930 mg/kg
LD50 oral	2500 mg/kg bodyweight

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

d-Limonene (5989-27-5)	
IARC group	3 - Not classifiable

Eugenol (97-53-0)	
IARC group	3 - Not classifiable

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

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.

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

Dipropylene glycol monomethyl ether (34590-94-8)	
LC50 fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)

3,7-Dimethyl-1,6-nonadien-3-ol (10339-55-6)	
LC50 fish 1	24 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])

d-Limonene (5989-27-5)	
LC50 fish 1	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

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])

12.2. Persistence and degradability

Benzyl benzoate (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Benzyl benzoate (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	4
Bioaccumulative potential	Not established.

Dipropylene glycol monomethyl ether (34590-94-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.064 (at 20 °C)

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

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

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)	:	UN 3082

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	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
document description (ADR)	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Musk ketone), 9, III, (-)
Transport document description (IMDG)	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Musk ketone), 9, III, MARINE POLLUTANT
Transport document description (IATA)	:	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Musk ketone), 9, III
Transport document description (ADN)	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Transport document description (RID)	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

14.3. Transport hazard class(es)

ADR

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

IMDG

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

IATA

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

ADN

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

RID

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

14.4. Packing group

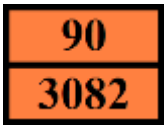
Packing group (ADR)	:	III
Packing group (IMDG)	:	III
Packing group (IATA)	:	III
Packing group (ADN)	:	III
Packing group (RID)	:	III

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)	:	5l
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)	:	TP1, TP29
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-F
Stowage category (IMDG)	:	A

Air transport

PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y964
PCA limited quantity max net quantity (IATA)	:	30kgG
PCA packing instructions (IATA)	:	964
PCA max net quantity (IATA)	:	450L
CAO packing instructions (IATA)	:	964
CAO max net quantity (IATA)	:	450L
Special provisions (IATA)	:	A97, A158, A197
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
Equipment required (ADN)	:	PP
Number of blue cones/lights (ADN)	:	0

Rail transport

Classification code (RID)	:	M6
Special provisions (RID)	:	274, 335, 375, 601
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01,R001 :
Special packing provisions (RID)		PP1
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T4
Portable tank and bulk container special provisions (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. 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)	Grapefruit oil ; d-Limonene
3(b)	ENGLISH SUMMER; Benzyl benzoate ; Iso E Super ; 3,7-Dimethyl-1,6-nonadien-3-ol ; Hydroxy ; Musk ketone ; Citronellol Pure ; 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol ; Rose oxide ; Vetiveria zizanoides root oil ; Eugenol ; Neobutenone alpha ; Triplal (Vertocitral) ; Linalool ; Grapefruit oil ; d-Limonene
3(c)	ENGLISH SUMMER ; Benzyl benzoate ; Ethylene brassylate ; Iso E Super ; Musk ketone ; Vetiveria zizanoides root oil ; Triplal (Vertocitral) ; Grapefruit oil ; d-Limonene
40.	Grapefruit oil ; d-Limonene

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

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 3, Highly 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	:	Triplal (Vertocitral),Grapefruit oil are listed
SZW-lijst van mutagene stoffen	:	Triplal (Vertocitral),Grapefruit oil are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige 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 The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

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

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
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
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.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
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.

SDS EU (REACH Annex II)

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.