

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 9/22/2020 Revision date: 5/11/2023

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

1.1. Product identifier

Product form	: Mixture
Product name	: Orange #EU22769F
UFI	: YU11-D2H5-H00G-8U5V
Product code	: EU22769F
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	:	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

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

1.4. Emergency telephone number

Emergency number

: 1-800-255-3924; +01-813-248-0585; China:+400-120-0751; Mexico:+01-800-099-0731; Brazil: +0-800-591-6042; India: +000-800-100-4086

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Aspiration hazard, Category 1	H304
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

Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP)



Safety Data Sheet

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

Signal word (CLP)	: Danger
Contains	: Cinnamic aldehyde; Citronellol Pure; Linalool; Benzyl salicylate; Eugenol; UNDECYLENAL;
	Orange oil ; Lemongrass oil ; Litsea cubeba oil
Hazard statements (CLP)	: 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.
	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P264 - Wash hands, forearms and face thoroughly after handling.
	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+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
Extra phrases	: For professional users only.
2.3. Other hazards	

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or 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]
Orange oil	CAS-No.: 8008-57-9 EC-No.: 232-433-8 REACH-no: 01-2119493353- 35	8.695 – 17.39	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 REACH-no: 01-2119935242- 45	5.22 – 10.44	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Ethylene brassylate	CAS-No.: 105-95-3 EC-No.: 203-347-8 REACH-no: 01-2119976314- 33	2.175 – 4.35	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	1.565 – 3.13	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Aldehyde C-10	CAS-No.: 112-31-2 EC-No.: 203-957-4	1.52 – 3.04	Eye Irrit. 2, H319 Aquatic Chronic 3, H412

Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzyl salicylate	CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442- 31	1.085 – 2.17	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Amyl salicylate	CAS-No.: 2050-08-0 EC-No.: 218-080-2 REACH-no: 01-2119969444- 27	1.085 – 2.17	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802- 33	0.65 – 1.3	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Verdox	CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713- 33	0.545 – 1.09	Aquatic Chronic 2, H411
Neroline Crystals	CAS-No.: 93-18-5 EC-No.: 202-226-7	0.545 – 1.09	Aquatic Chronic 2, H411 Skin Irrit. 2, H315
decyl alcohol substance with national workplace exposure limit(s) (BG, DE, LT, LV, RO, CH)	CAS-No.: 112-30-1 EC-No.: 203-956-9	0.215 – 0.43	Aquatic Chronic 3, H412
Lemongrass oil	CAS-No.: 8007-02-1 EC-No.: 616-903-3	0.215 – 0.43	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Benzyl acetate substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO)	CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272- 42	0.175 – 0.35	Aquatic Chronic 3, H412
UNDECYLENAL	CAS-No.: 112-45-8 EC-No.: 203-973-1 REACH-no: 01-2119990746- 20	0.175 – 0.35	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Citronellol Pure	CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995- 23	0.13 – 0.26	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Litsea cubeba oil	CAS-No.: 68855-99-2 EC-No.: 290-018-7	0.13 – 0.26	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Alcohol C-8 substance with national workplace exposure limit(s) (BG, DE, LT, LV, RO, SI, CH)	CAS-No.: 111-87-5 EC-No.: 203-917-6	0 – 0.09	Eye Irrit. 2, H319 Aquatic Chronic 3, H412

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

Safety Data Sheet

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

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	 Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. 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 First-aid measures after ingestion	 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. Do not induce vomiting. Call a physician immediately. 	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 Irritation. May cause an allergic skin reaction. Eye irritation. Risk of lung oedema. 	

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 up	: Take up liquid spill into absorbent material.		
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.

Safety Data Sheet

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

7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.	
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing shoul not be allowed out of the workplace.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.	
	: Store locked up. Store in a well-ventilated place. Keep cool. : 25 °C	
Storage conditions		
Storage conditions Storage temperature	: 25 °C	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Alcohol C-8 (111-87-5)		
Bulgaria - Occupational Exposure Limits		
OEL TWA	10 mg/m³	
Germany - Occupational Exposure Limits (TRGS 900)		
AGW (OEL TWA) [1]	54 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed (long-chain Alcohols)	
AGW (OEL TWA) [2]	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed (long-chain Alcohols)	
Latvia - Occupational Exposure Limits		
OEL TWA	10 mg/m ³ (Octanol)	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	10 mg/m³	
Romania - Occupational Exposure Limits		
OEL TWA	150 mg/m ³	
OEL TWA [ppm]	28 ppm	
OEL STEL	250 mg/m ³	
OEL STEL [ppm]	47 ppm	
OEL chemical category	Skin notation	
Slovenia - Occupational Exposure Limits		
OEL TWA	106 mg/m ³	
OEL TWA [ppm]	20 ppm	
OEL STEL	106 mg/m ³	
OEL STEL [ppm]	20 ppm	

Safety Data Sheet

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

Alcohol C-8 (111-87-5)			
Switzerland - Occupational Exposure Limits			
MAK (OEL TWA) [1]	106 mg/m ³		
MAK (OEL TWA) [2]	20 ppm		
KZGW (OEL STEL)	106 mg/m ³		
KZGW (OEL STEL) [ppm]	20 ppm		
decyl alcohol (112-30-1)			
Bulgaria - Occupational Exposure Limits			
OEL TWA	10 mg/m ³		
Germany - Occupational Exposure Limits (TRGS 900)			
AGW (OEL TWA) [1]	66 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)		
AGW (OEL TWA) [2]	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)		
Latvia - Occupational Exposure Limits			
OEL TWA	10 mg/m ³		
Lithuania - Occupational Exposure Limits			
IPRV (OEL TWA)	10 mg/m ³		
Romania - Occupational Exposure Limits			
OEL TWA	100 mg/m ³		
OEL TWA [ppm]	15 ppm		
OEL STEL	200 mg/m ³		
OEL STEL [ppm]	30 ppm		
Switzerland - Occupational Exposure Limits			
MAK (OEL TWA) [1]	66 mg/m³ (aerosol, vapour)		
MAK (OEL TWA) [2]	10 ppm (aerosol, vapour)		
KZGW (OEL STEL)	66 mg/m³ (aerosol, vapour)		
KZGW (OEL STEL) [ppm]	10 ppm (aerosol, vapour)		
Benzyl acetate (140-11-4)			
Belgium - Occupational Exposure Limits			
OEL TWA	62 mg/m³		
OEL TWA [ppm]	10 ppm		
Denmark - Occupational Exposure Limits			
OEL TWA [1]	61 mg/m³		
OEL TWA [2]	10 ppm		
Ireland - Occupational Exposure Limits	Ireland - Occupational Exposure Limits		
OEL TWA [2]	10 ppm		
OEL STEL [ppm]	30 ppm (calculated)		
Latvia - Occupational Exposure Limits			
OEL TWA	5 mg/m³		

Safety Data Sheet

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

Benzyl acetate (140-11-4)		
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/m³	
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/m³	
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	

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 symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

Safety Data Sheet

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

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

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. characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 75 °C (closed cup) ASTM D7094
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0.93
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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.

Safety Data Sheet

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

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 hazard classes as defined in Regulation (EC) No 1272/2008			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Not classified		
, ,	Not classified Not classified		
Alcohol C-8 (111-87-5)			
LD50 oral rat	> 3200 mg/kg		
LD50 dermal rabbit	> 5 g/kg		
LD50 dermal	2500 mg/kg bodyweight		
Cinnamic aldehyde (104-55-2)			
LD50 oral rat	2220 mg/kg		
LD50 oral	2200 mg/kg bodyweight		
LD50 dermal rabbit	1260 mg/kg		
LD50 dermal	1100 mg/kg bodyweight		
decyl alcohol (112-30-1)			
LD50 oral rat	4720 mg/kg		
LD50 dermal rabbit	3560 mg/kg		
Benzyl acetate (140-11-4)			
LD50 oral rat	2490 mg/kg		
LD50 oral	2490 mg/kg bodyweight		
LD50 dermal rabbit	> 5000 mg/kg		
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		
Aldehyde C-10 (112-31-2)			
LD50 oral rat	3730 mg/kg		
LD50 dermal rabbit	5040 mg/kg		
Linalool (78-70-6)			
LD50 oral	2790 mg/kg bodyweight		

Safety Data Sheet

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

Ethylene brassylate (105-95-3)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
Benzyl salicylate (118-58-1)		
LD50 oral rat 2227 mg/kg		
LD50 oral	2200 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg	
Amyl salicylate (2050-08-0)		
LD50 oral rat	4100 mg/kg	
LD50 oral	2000 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg	
Verdox (88-41-5)		
LD50 oral rat	4600 mg/kg	
LD50 oral	4600 mg/kg bodyweight	
Neroline Crystals (93-18-5)		
LD50 oral rat	3110 mg/kg	
LD50 oral	3110 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg	
Eugenol (97-53-0)		
LD50 oral rat	1930 mg/kg	
LD50 oral	2500 mg/kg bodyweight	
UNDECYLENAL (112-45-8)		
LD50 oral rat	> 5 g/kg	
LD50 dermal rabbit	> 5000 mg/kg	
Orange oil (8008-57-9)		
LD50 oral rat	4400 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
Lemongrass oil (8007-02-1)		
LD50 oral rat	> 5 g/kg	
LD50 dermal	3127 mg/kg bodyweight	
Litsea cubeba oil (68855-99-2)		
LD50 oral rat	> 5 g/kg	
LD50 dermal	4800 mg/kg bodyweight	
	Causes skin irritation. Causes serious eye irritation.	
	May cause an allergic skin reaction.	
Germ cell mutagenicity :	Not classified	
G ,	Not classified	
Benzyl acetate (140-11-4)		
IARC group	3 - Not classifiable	

Safety Data Sheet

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

Eugenol (97-53-0)		
IARC group		3 - Not classifiable
Reproductive toxicity	: 1	Not classified
STOT-single exposure	: 1	Not classified
STOT-repeated exposure	: 1	Not classified
Aspiration hazard	: 1	May be fatal if swallowed and enters airways.
Orange oil (8008-57-9)		
Hydrocarbon		Yes
11.2. Information on other hazards	;	

No additional information available

SECTION 12: Ecological information				
12.1. Toxicity				
Hazardous to the aquatic environment, short-term : (acute)	Toxic to aquatic life with long lasting effects. Not classified Toxic to aquatic life with long lasting effects.			
Alcohol C-8 (111-87-5)				
LC50 - Fish [1]	11.4 – 12.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])			
LC50 - Fish [2]	17.68 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])			
decyl alcohol (112-30-1)				
LC50 - Fish [1]	2.2 – 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])			
LC50 - Fish [2]	4.12 – 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])			
EC50 - Crustacea [1]	3 mg/l (Exposure time: 48 h - Species: Daphnia magna)			
Aldehyde C-10 (112-31-2)				
LC50 - Fish [1]	1.45 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])			
Linalool (78-70-6)				
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)			
Benzyl salicylate (118-58-1)				
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])			
Eugenol (97-53-0)				
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])			
12.2. Persistence and degradability				
No additional information available				
12.3. Bioaccumulative potential				
Alcohol C-8 (111-87-5)				

Alcohol C-8 (111-87-5)		
Partition coefficient n-octanol/water (Log Pow) 3.5 (at 23 °C (at pH 5.7)		
Cinnamic aldehyde (104-55-2)		
Partition coefficient n-octanol/water (Log Pow) 2.1065 (at 25 °C)		

Safety Data Sheet

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

decyl alcohol (112-30-1)		
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 25 °C (at pH 6)	
Benzyl acetate (140-11-4)		
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7)	
Citronellol Pure (106-22-9)		
Partition coefficient n-octanol/water (Log Pow)	3.41 (at 25 °C)	
Aldehyde C-10 (112-31-2)		
Partition coefficient n-octanol/water (Log Pow)	3.8 (at 35 °C)	
Ethylene brassylate (105-95-3)		
Partition coefficient n-octanol/water (Log Pow)	4.3 (at 25 °C (at pH 6.4-7)	
Benzyl salicylate (118-58-1)		
Partition coefficient n-octanol/water (Log Pow)	4	
Amyl salicylate (2050-08-0)		
BCF - Fish [1]	(1170 dimensionless (whole body w.w.)	
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 30 °C)	
Neroline Crystals (93-18-5)		
Partition coefficient n-octanol/water (Log Pow)	3.747 (at 25 °C (at pH 6.23)	
Eugenol (97-53-0)		
Partition coefficient n-octanol/water (Log Pow)	1.83 (at 30 °C (at pH 5.5)	
UNDECYLENAL (112-45-8)		
Partition coefficient n-octanol/water (Log Pow)	4.672 (at 25 °C)	
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

No additional information available

SECTION 13: Disposal considera	itions
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Safety Data Sheet

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

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.

HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

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	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber	1		
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amyl salicylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amyl salicylate)	Environmentally hazardous substance, liquid, n.o.s. (Amyl salicylate)	(Amyl salicylate)	(Amyl salicylate)
Transport document descr	iption	-		
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amyl salicylate), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amyl salicylate), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Amyl salicylate), 9, III	UN 3082 (Amyl salicylate)	UN 3082 (Amyl salicylate)
14.3. Transport hazard o	class(es)			
9	9	9	Not applicable	Not applicable
14.4. Packing group		1		
III	III	Ш	Not applicable	Not applicable
14.5. Environmental haz	ards			
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

Safety Data Sheet

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

ADR IM	IDG	ΙΑΤΑ	ADN	RID
No supplementary information available				
4.6. Special precautions for user				
overland transport				
Classification code (ADR)	: M	16		
Special provisions (ADR)	: 2	74, 335, 375, 601		
imited quantities (ADR)	: 51			
Excepted quantities (ADR)	: E	1		
Packing instructions (ADR)		001, IBC03, LP01, R001		
Special packing provisions (ADR)	: P			
lixed packing provisions (ADR)		IP19		
Portable tank and bulk container instructions	· /			
Portable tank and bulk container special pro	visions : T	P1, TP29		
ADR)				
Tank code (ADR)		GBV		
/ehicle for tank carriage	: A			
Fransport category (ADR)	: 3			
Special provisions for carriage - Packages (
Special provisions for carriage - Loading, ur	lioading : C	V 13		
and handling (ADR) Hazard identification number (Kemler No.)	: 9	0		
Drange plates				
orange plates		90		
	-			
		3082		
Funnel restriction code (ADR)	: -			
EAC code	:•3	32		
Transport by sea	· 2	74, 335, 969		
Special provisions (IMDG) Limited quantities (IMDG)	: 5			
Excepted quantities (IMDG)	: E			
Packing instructions (IMDG)		- P01, P001		
Special packing provisions (IMDG)	: P			
BC packing instructions (IMDG)		3C03		
Fank instructions (IMDG)	: T			
Fank special provisions (IMDG)		Р1, ТР29		
EmS-No. (Fire)	: F			
EmS-No. (Spillage)	: S			
Stowage category (IMDG)	: A			
с су <i>х</i> ,				
Air transport				
PCA Excepted quantities (IATA)	: E	1		
PCA Limited quantities (IATA)	: Y			
PCA limited quantity max net quantity (IATA	.) : 30	0kgG		
PCA packing instructions (IATA)	: 9	-		
PCA max net quantity (IATA)	: 4	50L		
CAO packing instructions (IATA)	: 9	64		
CAO max net quantity (IATA)	: 4	50L		
Special provisions (IATA)		97, A158, A197		
ERG code (IATA)	: 91	L		
nland waterway transport				
niand waterway transport No data available				
Rail transport				

No data available

Safety Data Sheet

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

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	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Orange #EU22769F ; Alcohol C-8 ; Cinnamic aldehyde ; Citronellol Pure ; Aldehyde C-10 ; Linalool ; Benzyl salicylate ; Amyl salicylate ; Eugenol ; UNDECYLENAL ; Orange oil ; Lemongrass oil ; Litsea cubeba 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 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)	Orange #EU22769F ; Alcohol C-8 ; Cinnamic aldehyde ; decyl alcohol ; Benzyl acetate ; Aldehyde C-10 ; Ethylene brassylate ; Benzyl salicylate ; Amyl salicylate ; Verdox ; UNDECYLENAL ; Orange oil ; Lemongrass oil ; Litsea cubeba 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 class 4.1
40.	Orange 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 substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

Explosives Precursors Regulation (2019/1148)

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

Safety Data Sheet

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

Drug Precursors Regulation (273/2004)

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

15.1.2. National regulations

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).
List of sensitizing substances (TRGS 907)	: Contains sensitizing substances according TRGS 907.
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	: Orange oil is listed
SZW-lijst van mutagene stoffen	: Orange oil is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed
Denmark	
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
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.

Safety Data Sheet

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

Full text of H- and EUH-statements:	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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 Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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