

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 6/12/2023 Version: 1.0

# 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 : Professional use, Industrial use

Industrial/Professional use spec : Industrial

For professional use only Perfumes, fragrances

Use of the substance/mixture : Perfumes, frag 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)



GHS07



GHS08

GHS09

# Safety Data Sheet

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

Signal word (CLP) : Danger

Contains : Orange oil ; Cinnamic aldehyde; Linalool; Benzyl salicylate; Eugenol; Lemongrass oil ;

Litsea cubeba oil; Citronellol Pure

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.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

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.

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	8.7 – 17.3921	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	5.2 – 10.4353	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	2.2 – 4.348	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	1.6 – 3.1305	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	1.5 – 3.0436	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	1.1 – 2.174	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	1.1 – 2.174	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	0.7 – 1.3044	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Neroline Crystals	CAS-No.: 93-18-5 EC-No.: 202-226-7	0.5 – 1.0871	Aquatic Chronic 2, H411 Skin Irrit. 2, H315
Verdox	CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713- 33	0.5 – 1.0871	Aquatic Chronic 2, H411
Lemongrass oil	CAS-No.: 8007-02-1 EC-No.: 616-903-3	0.2 – 0.4348	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
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	0.2 – 0.4348	Aquatic Chronic 3, H412
Aldehyde C-11	CAS-No.: 112-44-7 EC-No.: 203-972-6 REACH-no: 01-2119990746- 20	0.2 – 0.348	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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	0.2 – 0.3478	Aquatic Chronic 3, H412
Litsea cubeba oil	CAS-No.: 68855-99-2 EC-No.: 290-018-7	0.1 – 0.2609	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Citronellol Pure	CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995- 23	0.1 – 0.2609	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
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 – 0.087	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**

First-aid measures after skin contact

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.

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

breathe fresh air. Allow the victim to rest.

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated

clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Do not induce

vomiting. Call a physician immediately.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.
Symptoms/effects after ingestion : 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 : Sand. Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

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

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Ventilate area.

6/12/2023 (Issue date) EN (English) 4/18

# Safety Data Sheet

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

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. 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. Contaminated work clothing should not be

allowed out of the workplace. Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep

container closed when not in use. Store locked up. Store in a well-ventilated place. Keep

cool

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 25 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

### 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

decyl alcohol (112-30-1)		
Bulgaria - Occupational Exposure Limits		
OEL TWA 10 mg/m³		
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/m³	

# Safety Data Sheet

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

decid placket (442.20.4)			
	decyl alcohol (112-30-1)		
Lithuania - Occupational Exposure Limits			
IPRV (OEL TWA)	10 mg/m³		
Romania - Occupational Exposure Limits			
OEL TWA	100 mg/m³		
OEL TWA [ppm]	15 ppm		
OEL STEL	200 mg/m³		
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			
OEL TWA [2]	10 ppm		
OEL STEL [ppm]	30 ppm (calculated)		
Latvia - Occupational Exposure Limits			
OEL TWA	5 mg/m³		
Lithuania - Occupational Exposure Limits			
IPRV (OEL TWA)	5 mg/m³		
Portugal - Occupational Exposure Limits			
OEL TWA [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/m³		
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		
	l .		

# Safety Data Sheet

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

Benzyl acetate (140-11-4)			
ACGIH chemical category	Not Classifiable as a Human Carcinogen		
Alcohol C-8 (111-87-5)			
Bulgaria - Occupational Exposure Limits			
OEL TWA	10 mg/m³		
Germany - Occupational Exposure Limits (TRGS 90	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/m³ (Octanol)		
Lithuania - Occupational Exposure Limits			
IPRV (OEL TWA)	10 mg/m³		
Romania - Occupational Exposure Limits			
OEL TWA	150 mg/m³		
OEL TWA [ppm]	28 ppm		
OEL STEL	250 mg/m³		
OEL STEL [ppm]	47 ppm		
OEL chemical category	Skin notation		
Slovenia - Occupational Exposure Limits			
OEL TWA	106 mg/m³		
OEL TWA [ppm]	20 ppm		
OEL STEL	106 mg/m³		
OEL STEL [ppm]	20 ppm		
Switzerland - Occupational Exposure Limits			
MAK (OEL TWA) [1]	106 mg/m³		
MAK (OEL TWA) [2]	20 ppm		
KZGW (OEL STEL)	106 mg/m³		
KZGW (OEL STEL) [ppm]	20 ppm		

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

# 8.1.5. Control banding

No additional information available

# Safety Data Sheet

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

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

### Personal protective equipment symbol(s):





#### 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Safety glasses

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

### Hand protection:

Wear protective gloves.

#### 8.2.2.3. Respiratory protection

### Respiratory protection:

Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

### Environmental exposure controls:

Avoid release to the environment.

# Other information:

Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid

light yellow. amber. Colour Odour characteristic. Odour threshold : Not available Melting point : Not applicable Freezing point : Not available Boiling point : Not available Flammability : Not applicable **Explosive limits** : Not available Lower explosion limit : Not available Upper explosion limit : Not available Flash point : 75 °C Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : 20.5 mm<sup>2</sup>/s Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available

# Safety Data Sheet

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

Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : Not available
Relative density : Not available
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

Not established.

# 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

# 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

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

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

Orange oil (8008-57-9)		
LD50 oral rat	4400 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
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	
Ethylene brassylate (105-95-3)		
LD50 oral rat	> 5000 mg/kg	

# Safety Data Sheet

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

Ethylene brassylate (105-95-3)	
LD50 dermal rabbit	> 5000 mg/kg
Linalool (78-70-6)	
LD50 oral	2790 mg/kg bodyweight
Aldehyde C-10 (112-31-2)	
LD50 oral rat	3730 mg/kg
LD50 dermal rabbit	5040 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
Eugenol (97-53-0)	
LD50 oral rat	1930 mg/kg
LD50 oral	2500 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
Verdox (88-41-5)	
LD50 oral rat	4600 mg/kg
LD50 oral	4600 mg/kg bodyweight
Lemongrass oil (8007-02-1)	
LD50 oral rat	> 5 g/kg
LD50 dermal	3127 mg/kg bodyweight
decyl alcohol (112-30-1)	
LD50 oral rat	4720 mg/kg
LD50 dermal rabbit	3560 mg/kg
Aldehyde C-11 (112-44-7)	
LD50 dermal rabbit	> 5000 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

# Safety Data Sheet

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

Litsea cubeba oil (68855-99-2)		
LD50 oral rat	> 5 g/kg	
LD50 dermal	4800 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	
Alcohol C-8 (111-87-5)		
LD50 oral rat	> 3200 mg/kg	
LD50 dermal rabbit	> 5 g/kg	
LD50 dermal	2500 mg/kg bodyweight	
Skin corrosion/irritation :	Causes skin irritation.	
Serious eye damage/irritation :	Causes serious eye irritation.	
	May cause an allergic skin reaction.	
	Not classified	
	Not classified	
- J	Not classified	
Eugenol (97-53-0)		
IARC group	3 - Not classifiable	
Benzyl acetate (140-11-4)		
IARC group	3 - Not classifiable	
Reproductive toxicity :	Not classified	
STOT-single exposure :	Not classified	
STOT-repeated exposure :	Not classified	
	May be fatal if swallowed and enters airways.	
ORANGE #EU22769F		
Viscosity, kinematic	20.5 mm²/s	
Orange oil (8008-57-9)		
Hydrocarbon	Yes	

# 11.2. Information on other hazards

## 11.2.1. Endocrine disrupting properties

No additional information available

### 11.2.2. Other information

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met

# **SECTION 12: Ecological information**

# 12.1. Toxicity

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

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

acute

Hazardous to the aquatic environment, long-term

(chronic)

: Toxic to aquatic life with long lasting effects.

6/12/2023 (Issue date) EN (English) 11/18

# Safety Data Sheet

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

Linalool (78-70-6)	
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
Aldehyde C-10 (112-31-2)	
LC50 - Fish [1]	1.45 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
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])
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)
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])
12.2. Persistence and degradability	
ORANGE #EU22769F	
Persistence and degradability	Not established.
Persistence and degradability  12.3. Bioaccumulative potential	Not established.
	Not established.
12.3. Bioaccumulative potential	Not established.  Not established.
12.3. Bioaccumulative potential  ORANGE #EU22769F	
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential	
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)	Not established.
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)	Not established.
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)  Ethylene brassylate (105-95-3)	Not established.  2.1065 (at 25 °C)
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)  Ethylene brassylate (105-95-3)  Partition coefficient n-octanol/water (Log Pow)	Not established.  2.1065 (at 25 °C)
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)  Ethylene brassylate (105-95-3)  Partition coefficient n-octanol/water (Log Pow)  Aldehyde C-10 (112-31-2)	Not established.  2.1065 (at 25 °C)  4.3 (at 25 °C (at pH 6.4-7)
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)  Ethylene brassylate (105-95-3)  Partition coefficient n-octanol/water (Log Pow)  Aldehyde C-10 (112-31-2)  Partition coefficient n-octanol/water (Log Pow)	Not established.  2.1065 (at 25 °C)  4.3 (at 25 °C (at pH 6.4-7)
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)  Ethylene brassylate (105-95-3)  Partition coefficient n-octanol/water (Log Pow)  Aldehyde C-10 (112-31-2)  Partition coefficient n-octanol/water (Log Pow)  Benzyl salicylate (118-58-1)	Not established.  2.1065 (at 25 °C)  4.3 (at 25 °C (at pH 6.4-7)  3.8 (at 35 °C)
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)  Ethylene brassylate (105-95-3)  Partition coefficient n-octanol/water (Log Pow)  Aldehyde C-10 (112-31-2)  Partition coefficient n-octanol/water (Log Pow)  Benzyl salicylate (118-58-1)  Partition coefficient n-octanol/water (Log Pow)	Not established.  2.1065 (at 25 °C)  4.3 (at 25 °C (at pH 6.4-7)  3.8 (at 35 °C)
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)  Ethylene brassylate (105-95-3)  Partition coefficient n-octanol/water (Log Pow)  Aldehyde C-10 (112-31-2)  Partition coefficient n-octanol/water (Log Pow)  Benzyl salicylate (118-58-1)  Partition coefficient n-octanol/water (Log Pow)  Amyl salicylate (2050-08-0)	Not established.  2.1065 (at 25 °C)  4.3 (at 25 °C (at pH 6.4-7)  3.8 (at 35 °C)
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)  Ethylene brassylate (105-95-3)  Partition coefficient n-octanol/water (Log Pow)  Aldehyde C-10 (112-31-2)  Partition coefficient n-octanol/water (Log Pow)  Benzyl salicylate (118-58-1)  Partition coefficient n-octanol/water (Log Pow)  Amyl salicylate (2050-08-0)  BCF - Fish [1]	Not established.  2.1065 (at 25 °C)  4.3 (at 25 °C (at pH 6.4-7)  3.8 (at 35 °C)  4  (1170 dimensionless (whole body w.w.)
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)  Ethylene brassylate (105-95-3)  Partition coefficient n-octanol/water (Log Pow)  Aldehyde C-10 (112-31-2)  Partition coefficient n-octanol/water (Log Pow)  Benzyl salicylate (118-58-1)  Partition coefficient n-octanol/water (Log Pow)  Amyl salicylate (2050-08-0)  BCF - Fish [1]  Partition coefficient n-octanol/water (Log Pow)	Not established.  2.1065 (at 25 °C)  4.3 (at 25 °C (at pH 6.4-7)  3.8 (at 35 °C)  4  (1170 dimensionless (whole body w.w.)
12.3. Bioaccumulative potential  ORANGE #EU22769F  Bioaccumulative potential  Cinnamic aldehyde (104-55-2)  Partition coefficient n-octanol/water (Log Pow)  Ethylene brassylate (105-95-3)  Partition coefficient n-octanol/water (Log Pow)  Aldehyde C-10 (112-31-2)  Partition coefficient n-octanol/water (Log Pow)  Benzyl salicylate (118-58-1)  Partition coefficient n-octanol/water (Log Pow)  Amyl salicylate (2050-08-0)  BCF - Fish [1]  Partition coefficient n-octanol/water (Log Pow)  Eugenol (97-53-0)	Not established.  2.1065 (at 25 °C)  4.3 (at 25 °C (at pH 6.4-7)  3.8 (at 35 °C)  4  (1170 dimensionless (whole body w.w.)  4.5 (at 30 °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)	
Aldehyde C-11 (112-44-7)		
Partition coefficient n-octanol/water (Log Pow)	4.47 (at 25 °C)	
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)	
Alcohol C-8 (111-87-5)		
Partition coefficient n-octanol/water (Log Pow)	3.5 (at 23 °C (at pH 5.7)	

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information

: Avoid release to the environment.

### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste treatment methods Product/Packaging disposal recommendations

Ecology - waste materials

**HP Code** 

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Dispose in a safe manner in accordance with local/national regulations.
- : Avoid release to the environment.
- : 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  $^{\circ}\text{C}$  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

# Safety Data Sheet

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

### **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping	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)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amyl Salicylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (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 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amyl Salicylate), 9,	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amyl Salicylate), 9
14.3. Transport hazard o	class(es)			
9	9	9	9	9
		**************************************		
14.4. Packing group	14.4. Packing group			
III	111	111	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary informatio	n available	ı		ı

# 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 : TP1, TP29
(ADR)

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 : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

# Safety Data Sheet

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

Orange plates : 90

3082

: A

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

Air transport

Stowage category (IMDG)

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, A215

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

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 : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# Safety Data Sheet

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

### **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; Orange oil; Cinnamic aldehyde; Linalool; Aldehyde C-10; Benzyl salicylate; Amyl salicylate ; Eugenol; Lemongrass oil; Aldehyde C-11; Litsea cubeba oil; Citronellol Pure; Alcohol C-8	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; Orange oil; Cinnamic aldehyde; Ethylene brassylate; Aldehyde C- 10; Benzyl salicylate; Amyl salicylate; Verdox; Lemongrass oil; decyl alcohol; Aldehyde C-11; Benzyl acetate; Litsea cubeba oil; Alcohol C-8	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)

#### **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)

# Safety Data Sheet

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

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510) : LGK 10 - Combustible liquids.

Joint storage table

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

: LGK 1, LGK 2A, LGK 5.1A, LGK 6.2, LGK 7. Joint storage not permitted for

Joint storage with restrictions permitted for : LGK 4.1A, LGK 4.2, LGK 4.3, LGK 5.1B, LGK 5.1C, LGK 5.2.

: LGK 2B, LGK 3, LGK 4.1B, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, Joint storage permitted for

LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.

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** 

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

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 : None of the components are listed

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid SZW-lijst van reprotoxische stoffen - Ontwikkeling

: None of the components are listed

**Denmark** 

Class for fire hazard : Class III-1 Store unit 50 liter

Classification remarks Flammable according to the Danish Ministry of Justice; Emergency management guidelines

for the storage of flammable liquids must be followed

**Danish National Regulations** Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

**Switzerland** 

Storage class (LK) : LK 6.1 - Toxic materials

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Other information : None.

Full text of H- and EUH-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	

# Safety Data Sheet

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

Full text of H- and EUH-statements:		
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.	
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.