

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 1/14/2020 Revision date: 11/15/2023 Supersedes version of: 4/14/2023 Version: 2.0

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

1.1. Product identifier

Product form : Mixture

 Trade name
 : Freesia #EU22901F

 UFI
 : A5E1-62MJ-X00T-KW3D

Product code : EU22901F

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 sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

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

Adverse physicochemical, human health and environmental effects

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

GHS09

Signal word (CLP) : Warning

Contains : Melonal; Triplal (Vertocitral); Lemongrass oil ; Nerol; Hydroxy; Citral; Helional; Cyclamal;

Hexyl salicylate; Linalool; Hexyl cinnamic aldehyde; Benzyl salicylate; Majantol

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Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H411 - Toxic to aquatic life with long lasting effects.

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

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.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P321 - Specific treatment (see supplemental first aid instruction on this label).

2.3. Other hazards

Contains no PBT and/or 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]
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092- 50	3.15 – 6.15	Skin Sens. 1, H317 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-	1.375 – 2.75	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Benzyl salicylate	CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442- 31	1.3 – 2.6	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	CAS-No.: 63500-71-0 EC-No.: 405-040-6 EC Index-No.: 603-101-00-3 REACH-no: 01-000015458-64	0.625 – 2.5	Eye Irrit. 2, H319
3-(2,2-dimethyl-3-hydroxypropyl)toluene; (alt.): 2,2-dimethyl-3-(3-methylphenyl)propanol	CAS-No.: 103694-68-4 EC-No.: 403-140-4 EC Index-No.: 603-138-00-5	0.01225 – 2.45	Skin Sens. 1, H317 Aquatic Chronic 3, H412
Carbitol substance with national workplace exposure limit(s) (AT, DE, EE, SE, SI, CH)	CAS-No.: 111-90-0 EC-No.: 203-919-7 REACH-no: 01-2119475105- 42	0.8860425 – 1.772085	Not classified
Hexyl salicylate	CAS-No.: 6259-76-3 EC-No.: 228-408-6	0.7125 – 1.65	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
citral substance with national workplace exposure limit(s) (BE, ES, IE, PL, PT)	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829- 23	0.45 – 0.9	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
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	0.4 – 0.8	Aquatic Chronic 3, H412
Cyclamal	CAS-No.: 103-95-7 EC-No.: 203-161-7 REACH-no: 01-2119970582- 32	0.351225 – 0.7245	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Hydroxy	CAS-No.: 107-75-5 EC-No.: 203-518-7 REACH-no: 01-2119973482- 31	0.344815 – 0.68963	Eye Irrit. 2, H319 Skin Sens. 1B, H317
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB)	CAS-No.: 1222-05-5 EC-No.: 214-946-9 EC Index-No.: 603-212-00-7 REACH-no: 01-2119488227- 29	0.225 – 0.45	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Nerol	CAS-No.: 106-25-2 EC-No.: 203-378-7	0.175 – 0.35	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
cis-3-Hexenyl salicylate	CAS-No.: 65405-77-8 EC-No.: 265-745-8	0.175 – 0.35	Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Helional	CAS-No.: 1205-17-0 EC-No.: 214-881-6 REACH-no: 01-2120740119- 58	0.175 – 0.35	Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 2, H411
Melonal	CAS-No.: 106-72-9 EC-No.: 203-427-2	0.05 – 0.1	Skin Sens. 1B, H317
Triplal (Vertocitral)	CAS-No.: 68039-49-6 EC-No.: 268-264-1	0.05 – 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Lemongrass oil	CAS-No.: 8007-02-1 EC-No.: 616-903-3	0.05 – 0.1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

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.

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First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with

plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing

before reuse. 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 eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. 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 inhalation : May cause an allergic skin reaction. 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 : 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

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air 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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames.

No smoking.

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.

6.2. 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.

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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

Additional hazards when processed Precautions for safe handling

- : Handle empty containers with care because residual vapours are flammable.
- : 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. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof electrical/ventilating/lighting

equipment

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep

container tightly closed. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

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

citral (5392-40-5)		
Belgium - Occupational Exposure Limits		
OEL TWA	32 mg/m³ (vapor and aerosol)	
OEL TWA	5 ppm (vapor and aerosol)	
OEL chemical category	Skin	
Ireland - Occupational Exposure Limits		
OEL TWA [2]	5 ppm	
OEL STEL	15 ppm (calculated)	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	27 mg/m³	
NDSCh (OEL STEL)	54 mg/m³	

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citral (5392-40-5)			
Portugal - Occupational Exposure Limits			
OEL TWA	5 ppm (inhalable fraction; vapor)		
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA) [2]	5 ppm (inhalable fraction and vapor)		
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA [ppm]	5 ppm (inhalable fraction and vapor)		
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer		
Benzyl acetate (140-11-4)			
Belgium - Occupational Exposure Limits			
OEL TWA	62 mg/m³		
OEL TWA	10 ppm		
Denmark - Occupational Exposure Limits			
OEL TWA [1]	61 mg/m³		
OEL TWA [2]	10 ppm		
OEL STEL	122 mg/m³		
OEL STEL	20 ppm		
Ireland - Occupational Exposure Limits			
OEL TWA [2]	10 ppm		
OEL STEL	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	10 ppm		
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen		
Romania - Occupational Exposure Limits	Romania - Occupational Exposure Limits		
OEL TWA	50 mg/m³		
OEL TWA	8 ppm		
OEL STEL	80 mg/m³		
OEL STEL	13 ppm		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA) [1]	62 mg/m³		
VLA-ED (OEL TWA) [2]	10 ppm		

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Benzyl acetate (140-11-4)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	10 ppm	
ACGIH chemical category	Not Classifiable as a Human Carcinogen	
Carbitol (111-90-0)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	35 mg/m³	
MAK (OEL TWA) [ppm]	6 ppm	
MAK (OEL STEL)	140 mg/m³	
MAK (OEL STEL) [ppm]	24 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	50.1 mg/m³	
OEL TWA	10 ppm	
OEL chemical category	Skin notation	
Germany - Occupational Exposure Limits (TRGS 90	00)	
AGW (OEL TWA) [1]	35 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]	6 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Slovenia - Occupational Exposure Limits		
OEL TWA	35 mg/m³	
OEL TWA	6 ppm	
OEL STEL	70 mg/m³	
OEL STEL	12 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	80 mg/m³	
NGV (OEL TWA) [ppm]	15 ppm	
KTV (OEL STEL)	170 mg/m³	
KTV (OEL STEL) [ppm]	30 ppm	
OEL chemical category	Skin notation	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	50 mg/m³ (aerosol, inhalable dust, vapour)	
KZGW (OEL STEL)	100 mg/m³ (aerosol, inhalable dust, vapour)	

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

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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

Colour : light yellow. amber. Conforms to standard.

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 : > 93 °C (closed cup) ASTM D7094

Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : Not available
Viscosity, kinematic : Not available
Solubility : Not available
Partition coefficient n-octanol/water (Log Kow) : Not available

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Vapour pressure: Not availableVapour pressure at 50° C: Not availableDensity: Not availableRelative density: ≈ 0.94 Relative vapour density at 20° C: Not availableParticle 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

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

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

Melonal (106-72-9)		
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)	
Triplal (Vertocitral) (68039-49-6)		
LD50 oral	3900 mg/kg bodyweight	
Lemongrass oil (8007-02-1)		
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)	
LD50 dermal	3127 mg/kg bodyweight	
Nerol (106-25-2)		
LD50 oral rat	4500 mg/kg (Source: NLM_CIP)	
LD50 oral	4500 mg/kg bodyweight	

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Nerol (106-25-2)		
LD50 dermal rabbit	> 5 g/kg (Source: NLM_CIP)	
Hydroxy (107-75-5)		
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)	
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)	
cis-3-Hexenyl salicylate (65405-77-8)		
LD50 oral rat	5 g/kg (Source: NLM_CIP)	
LD50 oral	2500 mg/kg bodyweight	
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)	
citral (5392-40-5)		
LD50 oral rat	4960 mg/kg (Source: NLM_CIP)	
LD50 dermal rabbit	2250 mg/kg (Source: NLM_CIP)	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylin	ndeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)	
LD50 oral rat	> 3250 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit	> 3250 mg/kg (Source: CHEMVIEW)	
Helional (1205-17-0)		
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)	
Cyclamal (103-95-7)		
LD50 oral rat	3810 mg/kg (Source: NLM_CIP)	
LD50 oral	3810 mg/kg bodyweight	
LD50 dermal rat	> 5000 mg/kg (Source: ECHA_API)	
Hexyl salicylate (6259-76-3)		
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)	
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)	
Linalool (78-70-6)		
LD50 oral	2790 mg/kg bodyweight	
Hexyl cinnamic aldehyde (101-86-0)		
LD50 oral rat	3100 mg/kg (Source: NLM_CIP)	
LD50 oral	3100 mg/kg bodyweight	
LD50 dermal rabbit	> 3000 mg/kg (Source: EPA_HPV)	
LC50 Inhalation - Rat	> 5 mg/l/4h	
Benzyl salicylate (118-58-1)		
LD50 oral rat	2227 mg/kg (Source: NLM_CIP)	
LD50 oral	2200 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
Benzyl acetate (140-11-4)		
LD50 oral rat	2490 mg/kg (Source: JAPAN_GHS)	
LD50 oral	2490 mg/kg bodyweight	

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> 5000 mg/kg (Source: JAPAN_GHS)
t.): 2,2-dimethyl-3-(3-methylphenyl)propanol (103694-68-4)
3440 mg/kg bodyweight
> 5 ml/kg (Source: ECHA_API)
10502 mg/kg (Source: OECD_SIDS)
9143 mg/kg (Source: OECD_SIDS)
> 5240 mg/m³ (Exposure time: 4 h Source: NLM_CIP)
ixed isomers (cis and trans) (63500-71-0)
> 2000 mg/kg (Source: ECHA_API)
 Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met May cause an allergic skin reaction. Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met
3 - Not classifiable
 Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified

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.

Ecology - water : 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

: Toxic to aquatic life with long lasting effects.

(chronic)

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CS0 - Fish [1] 20.3 mg/l (Exposure time: 96 h - Species: Danio rerio (semi-static) Source: ECHA)	Nerol (106-25-2)		
EC50 - Crustacea [1] 7 mg/l (Exposure time: 48 h - Species: Daphnia magna) EC50 72h - Algae [1] 16 mg/l (Species: Desmodesmus subspicatus) EC50 98h - Algae [1] 19 mg/l (Species: Desmodesmus subspicatus) 1,3,4,6,7,8-hexanydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) LC50 - Fish [1] 0,452 mg/l Wolf, 19964-27882 LC50 - Other aquatic organisms [1] > 0.14 mg/l REACH DOSSIER Pimephales prometas EC50 - Crustacea [2] 260 µg/l REACH Dossier EC50 - Other aquatic organisms [1] 0.131 mg/l REACH Dossier Linalool (78-70-6) EC50 98h - Algae [1] 88.3 mg/l (Species: Desmodesmus subspicatus) Benzyl salicylate (118-58-1) LC50 - Fish [1] 1,03 mg/l (Exposure time: 98 h - Species: Danie rerio [semi-static] Source: ECHA) Carbitol (111-90-0) LC50 - Fish [2] 19100 - 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) EC50 - Crustacea [1] 3940 - 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Freesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Not established. Molonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Noro (106-25-2) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) cis-3-Hoxonyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) citral (5392-40-5)	LC50 - Fish [1]	20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)	
EC50 72h - Algae [1] 16 mg/l (Species: Desmodesmus subspicatus)	citral (5392-40-5)		
EC50 96h - Algae [1]	EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) LC50 - Fish [1] 0.452 mg/l Wolf, 1996d-27682 LC50 - Other aquatic organisms [1] > 0.14 mg/l REACH DOSSIER Primephales promelas EC50 - Crustacea [2] 260 µg/l REACH Dossier EC50 - Other aquatic organisms [1] 0.131 mg/l REACH Dossier 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] Source: ECHA) Carbitol (111-90-0) LC50 - Fish [1] 1.0000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) LC50 - Fish [2] 19100 - 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) EC50 - Crustacea [1] 3940 - 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Freesia #EU22901F Bioaccumulative potential Freesia #EU22901F Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C (at pH 7) Citral (5392-40-5)	EC50 72h - Algae [1]	16 mg/l (Species: Desmodesmus subspicatus)	
LC50 - Fish [1] 0.452 mg/l Wolf, 1996d-27682 LC50 - Other aquatic organisms [1] > 0.14 mg/l REACH DOSSIER Primephales promelas EC50 - Other aquatic organisms [1] > 0.131 mg/l REACH Dossier EC50 - Other aquatic organisms [1] 0.131 mg/l REACH Dossier EC50 - Other aquatic organisms [1] 0.131 mg/l REACH Dossier 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] Source: ECHA) Carbitol (111-90-0) LC50 - Fish [1] 1.0000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) LC50 - Fish [2] 19100 - 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) EC50 - Crustacea [1] 3940 - 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Freesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C (at pH 7) Citral (5392-40-5)	EC50 96h - Algae [1]	19 mg/l (Species: Desmodesmus subspicatus)	
LC50 - Other aquatic organisms [1] > 0.14 mg/l REACH DOSSIER Pimephales prometas EC50 - Crustacea [2] 260 μg/l REACH Dossier EC50 - Other aquatic organisms [1] 0.131 mg/l REACH Dossier Linatool (78-70-6) EC50 96h - Algae [1] 88.3 mg/l (Species: Desmodesmus subspicatus) Benzyl salicytate (118-58-1) LC50 - Fish [1] 1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) Carbitol (111-90-0) LC50 - Fish [2] 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) LC50 - Fish [2] 19100 - 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) EC50 - Crustacea [1] 3940 - 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Freesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyllin	ndeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)	
EC50 - Crustacea [2] 260 µg/l REACH Dossier EC50 - Other aquatic organisms [1] 0.131 mg/l REACH Dossier Linatool (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] Source: ECHA) Carbitol (111-90-0) LC50 - Fish [1] 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) LC50 - Fish [2] 19100 - 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) EC50 - Crustacea [1] 3940 - 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Froesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Not estabilished. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) (at pH 7) citral (5392-40-5)	LC50 - Fish [1]	0.452 mg/l Wolf, 1996d-27682	
EC50 - Other aquatic organisms [1] 0.131 mg/l REACH Dossier 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] Source: ECHA) Carbitol (111-90-0) LC50 - Fish [1] 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) LC50 - Fish [2] 19100 - 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) EC50 - Crustacea [1] 3940 - 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Freesia #EU22901F Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (108-25-2) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	LC50 - Other aquatic organisms [1]	> 0.14 mg/l REACH DOSSIER Pimephales promelas	
Linalool (78-70-6) ECS0 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] Source: ECHA) Carbitol (111-90-0) LC50 - Fish [1] 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) LC50 - Fish [2] 19100 - 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) EC50 - Crustacea [1] 3940 - 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Freesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bloaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 7) Norol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	EC50 - Crustacea [2]	260 μg/l REACH Dossier	
ECS0 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] Source: ECHA) Carbitol (111-90-0) LC50 - Fish [1] 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) LC50 - Fish [2] 19100 – 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) EC50 - Crustacea [1] 3940 – 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Froesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	EC50 - Other aquatic organisms [1]	0.131 mg/l REACH Dossier	
Benzyl salicylate (118-58-1) LC50 - Fish [1]	Linalool (78-70-6)		
LC50 - Fish [1]	EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)	
Carbitol (111-90-0) LCS0 - Fish [1]	Benzyl salicylate (118-58-1)		
LC50 - Fish [1] 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) LC50 - Fish [2] 19100 – 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) EC50 - Crustacea [1] 3940 – 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Freesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Freesia #EU22901F Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)	
LC50 - Fish [2] 19100 – 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) EC50 - Crustacea [1] 3940 – 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Freesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Freesia #EU22901F Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) Cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) Citral (5392-40-5)	Carbitol (111-90-0)		
Source: EPA) EC50 - Crustacea [1] 3940 – 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna) 12.2. Persistence and degradability Freesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Freesia #EU22901F Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	LC50 - Fish [1]	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)	
12.2. Persistence and degradability Freesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Freesia #EU22901F Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	LC50 - Fish [2]		
Freesia #EU22901F Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Freesia #EU22901F Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	EC50 - Crustacea [1]	3940 – 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Persistence and degradability May cause long-term adverse effects in the environment. 12.3. Bioaccumulative potential Freesia #EU22901F Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	12.2. Persistence and degradability		
12.3. Bioaccumulative potential Freesia #EU22901F Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	Freesia #EU22901F		
Freesia #EU22901F Bioaccumulative potential Not established. Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) Cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) Citral (5392-40-5)	Persistence and degradability	May cause long-term adverse effects in the environment.	
Bioaccumulative potential Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	12.3. Bioaccumulative potential		
Melonal (106-72-9) Partition coefficient n-octanol/water (Log Pow) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	Freesia #EU22901F		
Partition coefficient n-octanol/water (Log Pow) 3.4 (at 35 °C (at pH 7) Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	Bioaccumulative potential	Not established.	
Nerol (106-25-2) Partition coefficient n-octanol/water (Log Pow) Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	Melonal (106-72-9)		
Partition coefficient n-octanol/water (Log Pow) 2.76 (at 30 °C (at pH 6.5) Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) 1.68 (at 25 °C) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	Partition coefficient n-octanol/water (Log Pow)	3.4 (at 35 °C (at pH 7)	
Hydroxy (107-75-5) Partition coefficient n-octanol/water (Log Pow) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	Nerol (106-25-2)		
Partition coefficient n-octanol/water (Log Pow) cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	Partition coefficient n-octanol/water (Log Pow)	2.76 (at 30 °C (at pH 6.5)	
cis-3-Hexenyl salicylate (65405-77-8) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	Hydroxy (107-75-5)		
Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C (at pH 7) citral (5392-40-5)	Partition coefficient n-octanol/water (Log Pow)	1.68 (at 25 °C)	
citral (5392-40-5)	cis-3-Hexenyl salicylate (65405-77-8)		
	Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C (at pH 7)	
Partition coefficient n-octanol/water (Log Pow) 2.76 (at 25 °C)	citral (5392-40-5)		
	Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)	

Safety Data Sheet

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

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)			
BCF - Fish [1]	(1618 dimensionless (whole body w.w.)		
Partition coefficient n-octanol/water (Log Pow)	5.3 (at 25 °C (at pH 7)		
Helional (1205-17-0)			
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)		
Cyclamal (103-95-7)			
Partition coefficient n-octanol/water (Log Pow)	3.4 (at 35 °C)		
Hexyl salicylate (6259-76-3)			
Partition coefficient n-octanol/water (Log Pow)	5.5 (at 30 °C (at pH 7)		
Benzyl salicylate (118-58-1)			
Partition coefficient n-octanol/water (Log Pow)	4		
Benzyl acetate (140-11-4)	Benzyl acetate (140-11-4)		
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7)		
3-(2,2-dimethyl-3-hydroxypropyl)toluene; (alt.): 2,2-dimethyl-3-(3-methylphenyl)propanol (103694-68-4)			
Partition coefficient n-octanol/water (Log Pow)	3.07 (at 20 °C)		
Carbitol (111-90-0)			
Partition coefficient n-octanol/water (Log Pow)	-0.8		
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0)			
Partition coefficient n-octanol/water (Log Pow)	1.65 (at 23 °C (at pH >6.09-<6.74)		

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

Additional information Ecology - waste materials : Dispose of contents/container in accordance with licensed collector's sorting instructions.

: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/national laws and regulations.

: Handle empty containers with care because residual vapours are flammable.

: Avoid release to the environment.

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.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate)	Environmentally hazardous substance, liquid, n.o.s. (Hexyl salicylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate)
Transport document descr	iption			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Hexyl salicylate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate), 9,	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate), 9,
14.3. Transport hazard	class(es)			
9	9	9	9	9
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information	on available	1	1	1

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

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Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : 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

Orange plates :

90 3082

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 : LP01, P001 Packing instructions (IMDG) 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, 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

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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

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(b)	Freesia #EU22901F; Melonal; Triplal (Vertocitral); Lemongrass oil; Nerol; Hydroxy; citral; Helional; Cyclamal; Hexyl salicylate; Linalool; Hexyl cinnamic aldehyde; Benzyl salicylate; 3-(2,2- dimethyl-3- hydroxypropyl)toluene; (alt.): 2,2-dimethyl-3-(3- methylphenyl)propanol; tetrahydro-2-isobutyl-4- methylpyran-4-ol, mixed isomers (cis and trans)	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)	Freesia #EU22901F; Triplal (Vertocitral); Lemongrass oil; cis-3- Hexenyl salicylate; 1,3,4,6,7,8-hexahydro- 4,6,6,7,8,8- hexamethylindeno[5,6- c]pyran; galaxolide; (HHCB); Helional; Cyclamal; Hexyl salicylate; Hexyl cinnamic aldehyde; Benzyl salicylate; Benzyl acetate; 3-(2,2-dimethyl-3- hydroxypropyl)toluene; (alt.): 2,2-dimethyl-3-(3- methylphenyl)propanol	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

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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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)

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 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

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

Netherlands

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

environment

SZW-lijst van kankerverwekkende stoffen : Triplal (Vertocitral),cis-3-Hexenyl salicylate are listed

SZW-lijst van mutagene stoffen : Triplal (Vertocitral),cis-3-Hexenyl salicylate are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen – : None of the components are listed

SZW-lijst van reprotoxische stoffen – : None of the components are Vruchtbaarheid

SZW-lijst van reprotoxische 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

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

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
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

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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
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
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

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.