

1. IDENTIFICATION

Product Name: Sun Washed Linen Fragrance

Other Names:

Product Use Description: Fragrance for Consumer Product.

Contact Information:

Organisation	Location	Telephone	Ask For
Adelaide Moulding and Candle Supplies	7 Woodlands Terrace Edwardstown, South Australia, 5039	08 8294 0451	SDS Officer
Poisons Information Centre		13 11 26	

2. HAZARD IDENTIFICATION

Classification of Substance: Hazardous to the Skin – Skin irritation, Category 2
 Hazardous to the Skin – Skin sensitisation, Category 1
 Hazardous to the Aquatic Environment – Short-term (acute) aquatic hazard, Category 1
 Hazardous to the Aquatic Environment – Long-term (chronic) aquatic hazard, Category 2
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H400: Very toxic to aquatic life.
 H411: Toxic to aquatic life with long lasting effects.

Hazard Pictograms:



Hazard Statement(s): H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

P261 Avoid breathing mist or vapours.
 P264 Wash skin thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P391 Collect spillage.

Additional labelling:

Contains 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one α -Hexylcinnamaldehyde, Linalyl acetate linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool, (Ethoxymethoxy)cyclododecane, 7-Hydroxycitronellal, cis-4-(Isopropyl) cyclohexanemethanol, Benzyl salicylate, Citronellol, Geraniol, 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one

Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
 Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

EC No	CAS-No.	Description	GHS Classification	Concentration (% w/w)
204-402-9	120-51-4	benzyl benzoate	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 10 - < 20
214-946-9	1222-05-5	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCb)	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 2,5 - < 10
204-263-4	118-60-5	2-Ethylhexyl salicylate	Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>= 2,5 - < 10
259-174-3	54464-57-2	1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>= 2,5 - < 10
101-86-0	165184-98-5	α-Hexylcinnamaldehyde	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 2,5 - < 10
204-116-4	115-95-7	Linalyl acetate	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
201-134-4	78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
405-040-6	63500-71-0	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Eye Irrit. 2; H319	>= 1 - < 10
261-332-1	58567-11-6	(Ethoxymethoxy)cyclododecane	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 1 - < 2,5
242-362-4	18479-58-8	2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10

203-518-7	107-75-5	7-Hydroxycitronellal	Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
237-539-8	5502-75-0 13828-37-0	cis-4-(Isopropyl)cyclohexanemethanol	Skin Irrit. 2; H315 Skin Sens. 1B; H317	>= 0,1 - < 1
204-262-9	118-58-1	Benzyl salicylate	Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0,25 - < 1
203-375-0	106-22-9	Citronellol	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
204-881-4	128-37-0	2,6-di-tert-Butyl-p-cresol	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25
203-377-1	106-24-1	Geraniol	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317	>= 0,1 - < 1
216-133-4	1506-02-1 21145-77-7	1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25
207-418-4	469-61-4	[3R-(3 α ,3 β ,7 β ,8 α)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Skin Irrit. 2; H315 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0,025 - < 0,1
260-709-8	57378-68-4	1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,0025 - < 0,025

4. FIRST AID MEASURES

General advice: Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

Protection of first-aiders: First Aid responders should pay attention to self-protection and use the recommended protective clothing.

If inhaled: Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed:	Rinse mouth with water. Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed:	Causes skin irritation. May cause an allergic skin reaction First aider needs to protect himself.
Indication of any immediate medical attention and special treatment needed:	The first aid procedure should be established in consultation with the doctor responsible for industrial medicine. There is no specific antidote available.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing Media:	High volume water jet
Hazardous combustion products:	No hazardous combustion products are known
Advice for firefighters:	In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes. Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment:	Use personal protective equipment.
Personal precautions:	Ensure adequate ventilation.
Emergency Procedures:	Evacuate personnel to safe areas.
Environmental Precautions:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and Suitable materials for containment and cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid formation of aerosol. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage, including incompatibilities:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Specific end use(s): Fragrance mix

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace exposure limits:

Ingredient	CAS	Value Type (Form of exposure)	Control Parameters	Basis
2,6-di-tert-Butyl-p-cresol	128-37-0	MAK (Vapor and aerosol, inhalable fraction.)	10 mg/m ³	DFG
		AGW (inhalable fraction)	10 mg/m ³	DE TRGS 900

Further information: Sum of vapors and aerosols.

Oxydipropanol	25265-71-8	MAK (Vapor and aerosol, inhalable fraction.)	100 mg/m ³	DFG
		AGW (inhalable fraction)	100 mg/m ³	DE TRGS 900

Further information: Sum of vapors and aerosols.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2,6-Dimethyloct-7-en-2-ol	Workers	Inhalation	Long-term systemic effects	24,7 mg/m ³
	Workers	Skin contact	Long-term systemic effects	7 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,35 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	2,5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2,5 mg/kg bw/day
(Ethoxymethoxy)cyclododecane	Workers	Inhalation	Long-term systemic effects	23,5 mg/m ³
	Workers	Skin contact	Long-term systemic effects	3,3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5,8 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	1,67 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1,67 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2,6-Dimethyloct-7-en-2-ol	Fresh water	0,0278 mg/l
	Fresh water sediment	0,594 mg/kg dry weight (d.w.)
	Marine water	0,00278 mg/l
	Marine sediment	0,059 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0,103 mg/kg dry weight (d.w.)
(Ethoxymethoxy) cyclododecane	Fresh water	0,002 mg/l
	Fresh water sediment	2,35 mg/kg dry weight (d.w.)
	Marine water	0,00016 mg/l
	Marine sediment	0,235 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Soil	0,468 mg/kg dry weight (d.w.)

Exposure Controls

Respiratory Protection:	Not required; except in case of aerosol formation.
Hand protection:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm).
Eye Protection:	Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Clear Liquid
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	Not determined
Boiling point/boiling range:	Not determined
Upper explosion limit / Upper flammability limit:	Vapours may form explosive mixtures with air.
Lower explosion limit / Lower flammability limit:	Vapours may form explosive mixtures with air.
Flash Point:	> 100 °C
Decomposition temperature:	Not determined
pH:	Not applicable
Viscosity	
Viscosity, dynamic	Not determined
Viscosity, kinematic	Not determined
Solubility(ies)	
Water solubility	Immiscible
Partition coefficient: n-octanol/ water	Not applicable
Vapour pressure	< 1 kPa (50 °C) calculated
Relative density	Not determined
Bulk density	Not applicable
Relative vapour density	Not determined
Other Information	
Explosives	Due to its structural properties, the product is not classified as explosive
Oxidising properties	The substance or mixture is not classified as oxidizing.
Self-ignition	The substance or mixture is not classified as self heating.
Evaporation rate	Not applicable
Molecular weight	Not applicable

10. STABILITY AND REACTIVITY

Reactivity Hazards:	No decomposition if stored and applied as directed.
Chemical Stability:	No decomposition if stored and applied as directed.
Hazardous Reactions:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to Avoid:	No data available
Incompatibles:	No data available
Hazardous Decomposition Products:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not classified based on available information.

Product:

Acute oral toxicity: Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Information on other hazards

Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12. ECOLOGICAL INFORMATION

Toxicity:

Persistence and degradability Components:

benzyl benzoate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 28 d
Method: OECD 301
GLP: yes

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Biodegradability : Test Type: CO2 Evolution Test
Result: Not readily biodegradable.
Biodegradation: 2 %
Exposure time: 28 d
Method: OECD 301B
GLP: No information available.

2-Ethylhexyl salicylate:

Biodegradability : Test Type: Closed bottle test, OECD 301-D, (BOD[28]/COD):
Result: Readily biodegradable.
Biodegradation: 89 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Biodegradability : Test Type: MITI Test II
Result: Not inherently biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD 302C
GLP: yes

Result: Product is not persistent.

Remarks: Weight of Evidence

α -Hexylcinnamaldehyde:

Biodegradability : Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 97 %
Exposure time: 28 d
Method: OECD 301F
GLP: no

Linalyl acetate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 28 d
Method: OECD 301F
GLP: no

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 64,2 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):

Biodegradability : Test Type: Closed Bottle test
Result: Inherently biodegradable.
Biodegradation: 64,8 %
Exposure time: 60 d
Method: OECD 301D
GLP: no
Remarks: Weight of Evidence

(Ethoxymethoxy)cyclododecane:

Biodegradability : Test Type: CO2 Evolution Test
Result: Not readily biodegradable.
Biodegradation: < 5 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

2,6-Dimethyloct-7-en-2-ol:

Biodegradability : Test Type: CO2 Evolution Test
Result: Readily biodegradable.
Biodegradation: 72 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

7-Hydroxycitronellal:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO2):
Result: Readily biodegradable.
Biodegradation: 93,7 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

cis-4-(Isopropyl)cyclohexanemethanol:

Biodegradability : Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 65 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

Benzyl salicylate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 93 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Citronellol:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 80 - 90 %
Exposure time: 28 d
GLP: no

2,6-di-tert-Butyl-p-cresol:

Biodegradability : Test Type: MITI test, (BOD/COD):
Result: Not readily biodegradable.
Biodegradation: 4,5 %
Exposure time: 28 d
Method: OECD 301C

Geraniol:

Biodegradability : Test Type: Closed bottle test, OECD 301-D, (BOD[28]/COD):
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 86 %
Exposure time: 28 d
Method: OECD 301
GLP: yes

1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:

Biodegradability : Test Type: MITI Test II
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD 302C

[3R-(3 α ,3 α β ,7 β ,8 α)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Biodegradability : Test Type: MITI Test II
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 31 d
Method: OECD 302C
GLP: yes
Test Type: aerobic
Inoculum: activated sludge
Concentration: 100 mg/l
Result: Not readily biodegradable.
Biodegradation: 16 %
Exposure time: 28 d
Method: OECD 301C

Bioaccumulative potential Components:

benzyl benzoate:

Partition coefficient

n- octanol/water: log Pow: ca. 4 (25 °C)
Remarks: Weight of Evidence**1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):**Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 28 d
Bioconcentration factor (BCF): 1.584
Method: OECD Test Guideline 305
GLP: yes

Partition coefficient:

n-octanol/water: log Pow: 5,3 (25 °C)
pH: 7**2-Ethylhexyl salicylate:**

Partition coefficient:

n-octanol/water: log Pow: 5,94 (25 °C)
pH: 7,8
Method: OECD Test Guideline 123
GLP: yes**1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:**Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 21 d
Bioconcentration factor (BCF): 600
Method: OECD Test Guideline 305
GLP: yes

Partition coefficient:

n-octanol/water: log Pow: 5,65 (30 °C)
Method: OECD 117
GLP: yes **α -Hexylcinnamaldehyde:**

Partition coefficient:

n-octanol/water: log Pow: 5,3 (24 °C)
Method: OECD 117
GLP: yes**Linalyl acetate:**

Partition coefficient:

n-octanol/water: log Pow: 3,9 (25 °C)
Method: OECD Test Guideline 107
GLP: yes**linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Partition coefficient:

n-octanol/water: log Pow: 2,84 (25 °C)
Method: OECD Test Guideline 107
GLP: no**tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):**

Partition coefficient:

n-octanol/water: log Pow: ca. 1,65 (23 °C)
pH: > 6,09 - < 6,74
Method: Regulation (EC) No. 440/2008, Annex, A.8
GLP: yes**(Ethoxymethoxy)cyclododecane:**

Bioaccumulation : Species: Cyprinus carpio (Carp)

Adelaide Moulding and Candle Supplies
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Edwardstown SA 5039
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Exposure time: 28 d
Bioconcentration factor (BCF): 340 - 580
Method: OECD Test Guideline 305
GLP: yes

Partition coefficient:

n-octanol/water: log Pow: 5,4 (25 °C)
Method: OECD Test Guideline 123
GLP: yes

2,6-Dimethyloct-7-en-2-ol:

Partition coefficient:
n-octanol/water: log Pow: 3,25 (40 °C)
pH: 7
Method: OECD 117
GLP: yes

7-Hydroxycitronellal:

Partition coefficient:
n-octanol/water: log Pow: 1,5
Method: OECD Test Guideline 107

cis-4-(Isopropyl)cyclohexanemethanol:

Partition coefficient:
n-octanol/water: log Pow: 3,48
Remarks: calculated

Benzyl salicylate:

Partition coefficient:
n-octanol/water: log Pow: 4,0 (35 °C)
Method: OECD 117
GLP: yes

Citronellol:

Partition coefficient:
n-octanol/water: log Pow: 3,41 (25 °C)
GLP: no

2,6-di-tert-Butyl-p-cresol:

Partition coefficient:
n-octanol/water: log Pow: 5,1

Geraniol:

Partition coefficient:
n-octanol/water: log Pow: 2,6 (25 °C)
Method: OECD 117
GLP: yes

1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:

Partition coefficient:
n-octanol/water: log Pow: 5,7

[3R-(3 α ,3 α β ,7 β ,8 α)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Partition coefficient:
n-octanol/water: log Pow: 6,09
Remarks: calculated

1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 60 d
Temperature: 25 °C
Bioconcentration factor (BCF): 58,3
Method: OECD Test Guideline 305
GLP: yes

Partition coefficient:
n-octanol/water: log Pow: 4,2

Mobility in soil Components:

benzyl benzoate:

Distribution among environmental compartments: Adsorption/Soil
Koc: 6310, log Koc: 3,8
Method: OECD 121

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Distribution among environmental compartments: log Koc: 4,87
Method: OECD Test Guideline 106

α-Hexylcinnamaldehyde:

Distribution among environmental compartments: Adsorption/Soil
Medium: Soil
log Koc: 4,2 Method: OECD 121

tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):

Distribution among environmental compartments: Adsorption/Soil
Medium: Soil
Koc: ca. 25, log Koc: ca. 1,4
Method: OECD 121

(Ethoxymethoxy)cyclododecane:

Distribution among environmental compartments: Adsorption/Soil
log Koc: 4,165
Remarks: calculated

2,6-Dimethyloct-7-en-2-ol:

Distribution among environmental compartments: Adsorption/Soil
Medium: Soil
log Koc: 3,75
Method: OECD 121

PBT and vPvB assessment:

Product: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

(Ethoxymethoxy)cyclododecane: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Assessment:

Endocrine disrupting properties:

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects

Product:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

Components:

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

2-Ethylhexyl salicylate:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

(Ethoxymethoxy)cyclododecane:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

2,6-Dimethyloct-7-en-2-ol:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

7-Hydroxycitronellal:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

cis-4-(Isopropyl)cyclohexanemethanol:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging: Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

14. TRANSPORT INFORMATION

UN Number: UN 3082
UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAHYDROHEXAMETHYL CYCLOPENTABENZOPYRAN, 2-ETHYLHEXYL SALICYLATE)
Transport Hazard Class(es): 9
Packing Group
ADR
Packing group: III
Classification Code: M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)
RID
Packing group: III
Classification Code: M6
Hazard Identification Number: 90
Labels: 9
IMDG
Packing group: III
Labels: 9
EmS Code: F-A, S-F
IATA (Cargo):
Packing instruction (cargo aircraft): 964
Packing instruction (LQ): Y964
Packing group: III
Labels: Miscellaneous
IATA (Passenger)
Packing instruction (passenger aircraft): 964
Packing instruction (LQ): Y964
Packing group: III
Labels: Miscellaneous

Environmental Hazards:

Special Precautions for user: The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Maritime transport in bulk according to IMO instruments: Not applicable for product as supplied.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations Specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):

Conditions of restriction for the following entries should be considered:

Number on list 3
Linalyl acetate (Number on list 3)
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (Number on list 3)
Benzyl salicylate (Number on list 3)
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; gal-axolide;(HHCB) (Number on list 3)
(Ethoxymethoxy)cyclododecane (Number on list 3)
benzyl benzoate (Number on list 3)
3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (Number on list 3)
2-Ethylhexyl salicylate (Number on list 3)
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (Number on list 3)
cis-4-(Isopropyl)cyclohexanemethanol (Number on list 3)
3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-indenyl propionate (Number on list 3)
Ionone, methyl- (Number on list 3)
cis-Hex-3-en-1-ol (Number on list 40, 3)
3-p-Cumenyl-2-methylpropionaldehyde (Number on list 3)
2-Phenylethanol (Number on list 3)
 α -Hexylcinnamaldehyde (Number on list 3)
Orange, sweet, ext. (Number on list 40, 3)
Citronellol (Number on list 3)
1-[(2-tert-butyl)cyclohexyloxy]-2-butanol (Number on list 3)
Juniper, Juniperus virginiana, ext. (Number on list 3)
Geraniol (Number on list 3)
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (Number on list 3)
7-Hydroxycitronellal (Number on list 3)
2,6-Dimethyloct-7-en-2-ol (Number on list 3)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS	200t	500t

Water hazard class (Germany): WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany): Total dust:
Not applicable
Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:

Not applicable
 Organic Substances:
 portion Class 1: 0,25 %
 Carcinogenic substances:
 Not applicable
 Mutagenic:
 Not applicable
 Toxic to reproduction:
 Not applicable

Volatile organic compounds: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
 Volatile organic compounds (VOC) content: 1,15 %

Other regulations: Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Chemical safety assessment: A Chemical Safety Assessment is not required for this substance.

16. OTHER INFORMATION

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.
Acute Tox.	Acute toxicity
Aquatic Acute	Short-term (acute) aquatic hazard
Aquatic Chronic	Long-term (chronic) aquatic hazard
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
STOT SE	Specific target organ toxicity - single exposure
DE TRGS 900	Germany. TRGS 900 - Occupational exposure limit values.
DFG	Senate commission for the review of compounds at the workplace dangerous for the health (MAK-commission).
DE TRGS 900 / AGW	Exposure limit(s):
DFG / MAK	Maximum allowable concentration:

Further information

Classification of mixture		Classification Procedure
Skin Irrit. 2	H315	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.