

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

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

1.1 Product identifier

Trade name : FRENCH PEAR

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Fragrance
Fragrance mix

1.3 Details of the supplier of the safety data sheet

Candle Supply Pty Ltd
Unit 3 8-9 Lagana Place
Wetherill Park, NSW 2164
ABN: 70612899626

Phone Number: 02 8741 4000
e-mail: customerservice@candlesupply.com.au

1.4 Emergency telephone number

13 11 26

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P391 Collect spillage.

Hazardous components which must be listed on the label:

α -Hexylcinnamaldehyde
Cinnamaldehyde
Coumarin
Cinnamyl alcohol
Eugenol
Piperonal
4-trans-Propenylveratrole
2,6-Dimethylhept-5-enal

2.3 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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version
3.0

Revision Date:
25.12.2022

SDS Number:

Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
α-Hexylcinnamaldehyde	165184-98-5 101-86-0 202-983-3	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 30 - < 50
		M-Factor (Acute aquatic toxicity): 1	
Cinnamaldehyde	104-55-2 203-213-9 01-2119935242-45 01-2119935242-45 01-2119935242-45	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317	>= 10 - < 20
benzyl benzoate	120-51-4 204-402-9 607-085-00-9	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 2,5 - < 10
		Acute toxicity esti- mate	
		Acute dermal toxicity: 4.000 mg/kg	
Benzyl acetate	140-11-4 205-399-7 01-2119638272-42 01-2119638272-42 01-2119638272-42 01-2119638272-42 01-2119638272-42	Aquatic Chronic 3; H412	>= 2,5 - < 10
Phenethyl acetate	103-45-7	Eye Dam. 1; H318	>= 1 - < 3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version
3.0

Revision Date:
25.12.2022

SDS Number:

Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

	203-113-5		
Coumarin	91-64-5 202-086-7 01-2119949300-45 01-2119943756-26 01-2119949300-45 01-2119949300-45	Acute Tox. 4; H302 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 <hr/> Acute toxicity estimate Acute oral toxicity: 500 mg/kg	>= 1 - < 2,5
Ethyl octanoate	106-32-1 203-385-5 01-2120765584-44-0000, 01-2120765584-44-0001	Aquatic Chronic 2; H411	>= 1 - < 2,5
2-Methylpentyl 2-methylvalerate	90397-38-9 291-418-4	Acute Tox. 4; H302	>= 1 - < 10
Cinnamyl alcohol	104-54-1 203-212-3	Acute Tox. 4; H302 Skin Sens. 1B; H317	>= 1 - < 10
Eugenol	97-53-0 202-589-1	Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB)	1222-05-5 214-946-9 603-212-00-7 01-2119488227-29 01-2119488227-29 01-2119488227-29	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,25 - < 1
Piperonal	120-57-0 204-409-7	Skin Sens. 1B; H317	>= 0,1 - < 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version
3.0

Revision Date:
25.12.2022

SDS Number:

Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

	01-2119983608-21 01-2119983608-21 01-2119983608-21		
4-trans-Propenylveratrole	6379-72-2 93-16-3 228-958-7	Skin Sens. 1B; H317	$\geq 0,1 - < 1$
2,6-Dimethylhept-5-enal	106-72-9 203-427-2 01-2120270305-62	Skin Sens. 1B; H317	$\geq 0,1 - < 1$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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 respira-
tion.
- 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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

First aider needs to protect himself.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
There is no specific antidote available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for 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.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on 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.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.

Advice on common storage : No special restrictions on storage with other products.

Storage class (TRGS 510) : 10, Combustible liquids

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Fragrance
Fragrance mix

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version
3.0

Revision Date:
25.12.2022

SDS Number:

Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

Substance name	Environmental Compartment	Value
Ethyl octanoate	Fresh water	0,00138 mg/l
	Fresh water sediment	0,168 mg/kg dry weight (d.w.)
	Marine water	0,000138 mg/l
	Marine sediment	0,017 mg/kg dry weight (d.w.)
	Sewage treatment plant	2,93 mg/l
3-Methylbutyl butyrate	Soil	0,033 mg/kg dry weight (d.w.)
	Fresh water	0,00319 mg/l
	Fresh water sediment	0,100 mg/kg dry weight (d.w.)
	Marine water	0,000319 mg/l
	Marine sediment	0,010 mg/kg dry weight (d.w.)
	Sewage treatment plant	1,51 mg/l
	Soil	0,0181 mg/kg dry weight (d.w.)

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Remarks : 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).

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Not required; except in case of aerosol formation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	light yellow to brown
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	:	77 °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	:	0,9788 - 0,9988 (20 °C) relation to density of water at 20°C
Bulk density	:	Not applicable
Relative vapour density	:	not determined

9.2 Other information

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Explosives : Due to its structural properties, the product is not classified as explosive

Oxidizing 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

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Product:

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

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Components:

α-Hexylcinnamaldehyde:

- Acute oral toxicity : LD50 Oral (Rat, male): 3.100 mg/kg
Method: OECD Test Guideline 401
GLP: no
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: no
- Acute dermal toxicity : LD50 Dermal (Rabbit, female): > 3.000 mg/kg
Method: OECD Test Guideline 402
GLP: no

Cinnamaldehyde:

- Acute oral toxicity : LD50 (Rat): 2.500 mg/kg
- Acute dermal toxicity : LD50 (Rat): 1.100 mg/kg

benzyl benzoate:

- Acute oral toxicity : LD50 Oral (Rat): 1.500 mg/kg
- Acute dermal toxicity : Acute toxicity estimate: 4.000 mg/kg

Benzyl acetate:

- Acute oral toxicity : LD50 Oral: 2.490 mg/kg

Phenethyl acetate:

- Acute dermal toxicity : LD50 Dermal (Rabbit): 6.210 mg/kg
Method: OECD Test Guideline 402
GLP: no

Coumarin:

- Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

Ethyl octanoate:

- Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

2-Methylpentyl 2-methylvalerate:

- Acute oral toxicity : LD50 Oral (Mouse, male): 1.325 mg/kg

Cinnamyl alcohol:

- Acute oral toxicity : LD50 Oral (Rat, female): 2.000 mg/kg
Method: OECD Test Guideline 423
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Acute dermal toxicity : LD50 Dermal (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Eugenol:

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD 423
GLP: No information available.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No information available.

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

Acute oral toxicity : LD50 Oral (Rat, female): > 3.000 mg/kg
Method: OECD Test Guideline 401
GLP: No information available.

Acute dermal toxicity : LD50 Dermal (Rat, female): > 6.500 mg/kg
Method: OECD Test Guideline 402
GLP: No information available.

Piperonal:

Acute oral toxicity : LD50 (Rat): 2.700 mg/kg

4-trans-Propenylveratrole:

Acute oral toxicity : LD50 Oral (Rat): 2.500 mg/kg
Method: OECD Test Guideline 401
GLP: no
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: no

2,6-Dimethylhept-5-enal:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version
3.0

Revision Date:
25.12.2022

SDS Number:

Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Components:

α-Hexylcinnamaldehyde:

Species : Rabbit
Exposure time : 4 h
Method : Regulation (EC) No. 440/2008, Annex, B.4
Result : Mild skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Cinnamaldehyde:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Moderate irritation of skin
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

benzyl benzoate:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Benzyl acetate:

Species : Rabbit
Exposure time : 4 h
Method : Regulation (EC) No. 440/2008, Annex, B.4
Result : No skin irritation
GLP : yes
Concentration : 100 %

Phenethyl acetate:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : no
Concentration : 100 %

Coumarin:

Species : Rabbit
Method : Regulation (EC) No. 440/2008, Annex, B.4
Result : No skin irritation
GLP : yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Ethyl octanoate:

Species : Human
Exposure time : 1 h
Method : OECD 439
Result : No skin irritation
GLP : yes
Dose : 0,03 ml
Concentration : 100 %

2-Methylpentyl 2-methylvalerate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Mild skin irritation

Cinnamyl alcohol:

Species : Rat
Exposure time : 24 h
Result : No skin irritation
GLP : yes
Concentration : 100 %

Eugenol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Piperonal:

Species : Guinea pig
Result : No skin irritation
Concentration : 20 %

4-trans-Propenylveratrole:

Species : reconstructed human epidermis (RhE)
Exposure time : 15 min
Method : OECD 439
Result : No skin irritation
GLP : yes
Dose : 0,01 ml
Concentration : 100 %

2,6-Dimethylhept-5-enal:

Species : Humans
Result : No skin irritation
Concentration : 5 %

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version
3.0

Revision Date:
25.12.2022

SDS Number:

Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

α -Hexylcinnamaldehyde:

Species : Rabbit
Method : Regulation (EC) No. 440/2008, Annex, B.5
Result : No eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

Cinnamaldehyde:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 405
Result : Irritating to eyes.
GLP : yes
Concentration : 100 %

benzyl benzoate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

Benzyl acetate:

Species : Rabbit
Method : Regulation (EC) No. 440/2008, Annex, B.5
Result : No eye irritation
GLP : yes
Concentration : 100 %

Phenethyl acetate:

Species : Rabbit
Result : Risk of serious damage to eyes.
GLP : no
Concentration : 100 %

Coumarin:

Species : Rabbit
Exposure time : 96 h
Result : No eye irritation
GLP : yes
Dose : 50 MG
Concentration : 100 %

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Ethyl octanoate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Concentration : 100 %

2-Methylpentyl 2-methylvalerate:

Species : Rabbit
Result : No eye irritation

Eugenol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation
Dose : 0,1 ML
Concentration : 100 %

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

Species : Rabbit
Result : No eye irritation
Concentration : 4 %
solvents : Ethyl alcohol

Species : Rabbit
Exposure time : 7 d
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

Piperonal:

Remarks : No eye irritation

4-trans-Propenylveratrole:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

2,6-Dimethylhept-5-enal:

Species : Bovine cornea
Method : OECD 437
Result : No eye irritation
GLP : yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Concentration : 100 %

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

α -Hexylcinnamaldehyde:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : No information available.
Concentration : 6,6 - 11,5 %
solvents : Acetone/Olive oil (4:1)

Cinnamaldehyde:

Test Type : Klecak Open Epicutaneous test
Species : Guinea pig
Result : Sensitizing effect.
Concentration : 3 %

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
Concentration : 3,1 %
solvents : Acetone/Olive oil (4:1)

benzyl benzoate:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : No sensitizing effect.
GLP : yes
Concentration : 50 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Benzyl acetate:

Species : Guinea pig
Method : OECD Test Guideline 406
Result : No sensitizing effect.

Coumarin:

Test Type : Local Lymph Node Assay
Species : Mouse

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Method : OECD 429
Result : Sensitizing effect.
GLP : No information available.
Concentration : 2,4 - 3,7 %

Cinnamyl alcohol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD Test Guideline 429
Result : Sensitizing effect.
Concentration : 10 - 90 %
solvents : Acetone/Olive oil (4:1)

Eugenol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : No information available.
Concentration : > 5,4 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

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

Species : Humans
Result : No sensitizing effect.
Rate of positive effects : 0/19
Concentration : 15 %
solvents : Petrolatum

4-trans-Propenylveratrole:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 9,5 %
solvents : Acetone/Olive oil (4:1)

2,6-Dimethylhept-5-enal:

Species : Humans
Result : No sensitizing effect.
Concentration : 4 %

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 34 %
solvents : Acetone/Olive oil (4:1)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version
3.0

Revision Date:
25.12.2022

SDS Number:

Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Germ cell mutagenicity

Not classified based on available information.

Components:

α -Hexylcinnamaldehyde:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Strain: NMRI
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.

Cinnamaldehyde:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Benzyl acetate:

Genotoxicity in vitro : Test Type: In vitro Mammalian Chromosome Aberration Test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Coumarin:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: Positive results were obtained in some in vitro tests.
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: No information available.

Test Type: sister chromatid exchange assay
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 479
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.

Ethyl octanoate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

2-Methylpentyl 2-methylvalerate:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Cinnamyl alcohol:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Result: negative

Eugenol:

Genotoxicity in vitro

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test
Method: OECD 473
Result: positive
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test
Method: OECD 476
Result: positive
GLP: No information available.

Genotoxicity in vivo

: Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male)
Method: OECD 474
Result: negative
GLP: No information available.

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

Genotoxicity in vitro

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes

Test Type: unscheduled DNA synthesis assay
Test system: rat hepatocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 482
Result: negative
GLP: yes

Genotoxicity in vivo

: Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version
3.0

Revision Date:
25.12.2022

SDS Number:

Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

4-trans-Propenylveratrole:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: positive
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Rat (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

2,6-Dimethylhept-5-enal:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Repeated dose toxicity

Components:

2,6-Dimethylhept-5-enal:

Species : Rat
Application Route : Oral
Exposure time : 28 d

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : 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.

SECTION 12: Ecological information

12.1 Toxicity

Components:

α -Hexylcinnamaldehyde:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,7 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): > 0,36 - < 0,59 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 0,065 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 0,065 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,069 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD 211
GLP: yes

Cinnamaldehyde:

Toxicity to fish : LC50 (Zebrafish (Brachydanio rerio)): 2,35 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,21 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: no
Remarks: Weight of Evidence

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 31,6 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: no
Remarks: Weight of Evidence

Toxicity to microorganisms : EC50 (Activated sludge): 71 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Method: ISO 8192
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

benzyl benzoate:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2,32 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,09 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,475 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0,247 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to microorganisms : EC50 (Activated sludge): > 10.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Method: OECD 209 / ISO 8192
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,258 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD 211
GLP: yes

Benzyl acetate:

- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 4 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 17 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 110 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- NOEC (*Desmodesmus subspicatus* (green algae)): 52 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to microorganisms : EC50 (Activated sludge): 855 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes
- Toxicity to fish (Chronic toxicity) : NOEC: 0,92 mg/l
Exposure time: 28 d
Species: *Oryzias latipes* (Japanese medaka)
Test Type: flow-through test
Analytical monitoring: yes

Phenethyl acetate:

- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 36,6 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (algae)): 40 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

GLP: yes

NOEC (Pseudokirchneriella subcapitata (algae)): 4,4 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC50 (Activated sludge): > 1.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209
GLP: yes

Coumarin:

Toxicity to microorganisms : IC50 (Activated sludge): 640 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Method: ISO 8192
GLP: No information available.

Ethyl octanoate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1,38 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7,9 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 5,57 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EC10 (Pseudokirchneriella subcapitata (green algae)): 3,53

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

2-Methylpentyl 2-methylvalerate:

Toxicity to fish : LC50 (Golden orfe (*Leuciscus idus*)): 100 mg/l
Toxicity to microorganisms : EC50 (*Pseudomonas putida*): 100 mg/l

Cinnamyl alcohol:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 9 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 7,7 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: no

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 19,7 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: no

Eugenol:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 13 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 1,13 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic : ErC50 (*Desmodesmus subspicatus* (green algae)): 24 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

plants Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

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

Toxicity to fish : NOEC (Lepomis macrochirus): 0,0925 mg/l
End point: mortality
Exposure time: 21 d
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD 204
GLP: yes

LC50 (Lepomis macrochirus): 1,36 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD 204
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 0,9 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,854 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,201 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Activated sludge): 10.000 mg/l
Method: OECD 209 / ISO 8192 - 1986 (E)
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chron- : NOEC: 0,111 mg/l
End point: Reproduction rate

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

ic toxicity) Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD 211
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

4-trans-Propenylveratrole:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 25 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: yes

2,6-Dimethylhept-5-enal:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,4 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

12.2 Persistence and degradability

Components:

α -Hexylcinnamaldehyde:

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

Cinnamaldehyde:

Biodegradability : Test Type: Modified OECD screening test
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD 301E
GLP: yes

benzyl benzoate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Biodegradation: 94,4 %
Exposure time: 28 d
Method: OECD 301
GLP: yes

Benzyl acetate:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO2):
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: no

Phenethyl acetate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 72 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Coumarin:

Biodegradability : Test Type: Manometric respiration test
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Ethyl octanoate:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO2):
Result: Readily biodegradable.
Biodegradation: 91,8 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

2-Methylpentyl 2-methylvalerate:

Biodegradability : Test Type: OECD screening test
Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD 301E

Cinnamyl alcohol:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO2):
Result: Readily biodegradable.
Biodegradation: 97,9 %

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

Exposure time: 28 d
Method: OECD 301B
GLP: yes

Eugenol:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301D
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.

Piperonal:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

4-trans-Propenylveratrole:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

2,6-Dimethylhept-5-enal:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

12.3 Bioaccumulative potential

Components:

α -Hexylcinnamaldehyde:

Partition coefficient: n- : log Pow: 5,3 (24 °C)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

octanol/water Method: OECD 117
GLP: yes

Cinnamaldehyde:

Partition coefficient: n-octanol/water : log Pow: 2,107 (25 °C)
Method: OECD 117
GLP: no

benzyl benzoate:

Partition coefficient: n-octanol/water : log Pow: ca. 3,97 (25 °C)

Benzyl acetate:

Partition coefficient: n-octanol/water : log Pow: 1,96 (25 °C)
pH: 7

Phenethyl acetate:

Partition coefficient: n-octanol/water : log Pow: 2,4 (25 °C)
Method: OECD Test Guideline 117
GLP: yes

Coumarin:

Partition coefficient: n-octanol/water : log Pow: 1,39

Ethyl octanoate:

Partition coefficient: n-octanol/water : log Pow: 4,47 (22,7 °C)
Method: OECD 117
GLP: yes

2-Methylpentyl 2-methylvalerate:

Partition coefficient: n-octanol/water : log Pow: 4,65
Remarks: calculated

Cinnamyl alcohol:

Partition coefficient: n-octanol/water : log Pow: 1,452 (25 °C)
Method: OECD Test Guideline 117
GLP: no

Eugenol:

Partition coefficient: n-octanol/water : log Pow: 1,83 (30 °C)
pH: 5,5
Method: OECD 117
GLP: no

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

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

Piperonal:

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

4-trans-Propenylveratrole:

Partition coefficient: n-octanol/water : log Pow: 2,9 (35 °C)
Method: OECD 117
GLP: yes

2,6-Dimethylhept-5-enal:

Partition coefficient: n-octanol/water : log Pow: 3,4 (35 °C)
pH: 7
Method: OECD 117
GLP: yes

12.4 Mobility in soil

Components:

α -Hexylcinnamaldehyde:

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

Cinnamaldehyde:

Distribution among environmental compartments : Adsorption/Soil
Medium: Soil
log Koc: 1,958
Method: OECD 121

benzyl benzoate:

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

Phenethyl acetate:

Distribution among environmental compartments : Adsorption/Soil
log Koc: 1,91
Method: OECD 121

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

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 K_{oc}: 4,87
Method: OECD Test Guideline 106

12.5 Results of PBT and vPvB assessment

Product:

Assessment : 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.

12.6 Endocrine disrupting properties

Product:

Assessment : 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.

12.7 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:

Cinnamaldehyde:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Benzyl acetate:

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

Coumarin:

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

Ethyl octanoate:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

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.

Piperonal:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

2,6-Dimethylhept-5-enal:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : 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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
((2E)-2-Benzylideneoctanal, HEXAHYDROHEXAMETHYL CYCLOPENTABENZOPYRAN)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
((2E)-2-Benzylideneoctanal, HEXAHYDROHEXAMETHYL CYCLOPENTABENZOPYRAN)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
((2E)-2-Benzylideneoctanal, HEXAHYDROHEXAMETHYL CYCLOPENTABENZOPYRAN)

IATA : Environmentally hazardous substance, liquid, n.o.s.
((2E)-2-Benzylideneoctanal, HEXAHYDROHEXAMETHYL CYCLOPENTABENZOPYRAN)

14.3 Transport hazard class(es)

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 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

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

IMDG

Marine pollutant : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

2-tert-Butylcyclohexyl ethyl carbonate (Number on list 3)
Ethyl 2-methylvalerate (Number on list 40, 3)
Ethyl octanoate (Number on list 3)
 α -Hexylcinnamaldehyde (Number on list 3)
cis-Hex-3-en-1-ol (Number on list 40, 3)
(Z)-Hex-3-enyl acetate (Number on list 40, 3)
Allyl (3-methylbutoxy)acetate (Number on list 3)
2-Methylpentyl 2-methylvalerate (Number on list 3)
benzyl benzoate (Number on list 3)
Eugenol (Number on list 3)
4-trans-Propenylveratrole (Number on list 3)
3-Methylbutyl butyrate (Number on list 40, 3)
Hexyl acetate (Number on list 40, 3)
Benzyl acetate (Number on list 3)
2,6-Dimethylhept-5-enal (Number on list 3)
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB) (Number on list 3)
Cinnamaldehyde (Number on list 3)
Phenethyl acetate (Number on list 3)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

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
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

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: 0,1 %

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: 27,73 %

Other regulations:

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

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version 3.0 Revision Date: 25.12.2022 SDS Number: Date of last issue: 28.05.2022
Date of first issue: 28.03.2022

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.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Skin Irrit. 2 H315
Eye Irrit. 2 H319
Skin Sens. 1 H317

Classification procedure:

Calculation method
Calculation method
Calculation method

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

FRENCH PEAR

Version	Revision Date:	SDS Number:	Date of last issue: 28.05.2022
3.0	25.12.2022		Date of first issue: 28.03.2022

Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Calculation method

The data contained in this Safety Data Sheet is accurate to the best knowledge of Candle Supply Pty Ltd, applies to the product as supplied Candle Supply Pty Ltd, and does not relate to use in combination with any other material or in any process. Data and information is furnished without warranty expressed or implied, nor does Candle Supply Pty Ltd, assume responsibility for use or reliance upon this data.

This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact customerservice@candlesupply.com.au