



CASSIA OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 5/26/2014 Revision date: 4/29/2019 Version: 1.5

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

1.1. Product identifier

Product form : Substance
Substance name : CASSIA OIL
EC-No. : 284-635-0
CAS-No. : 84961-46-6
Product code : CANHE02
Synonyms : CAS TSCA (USA) : 8007-80-5 / RTECS : FL6340000
Product group : Essential oil

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Industrial/Professional use spec : Industrial
For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

EXAFLOR
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P.O. Box CP 30561
94653 Rungis Cedex - France
T +33 (0)1 41 73 23 10 - F +33 (0)1 41 73 23 19
exaflor@orange.fr - www.exaflor.fr

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
	ORFILA (FRANCE)		+33 1 45 42 59 59	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (dermal), Category 4 H312
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.

Precautionary statements (CLP) :

P261 - Avoid breathing fume, gas, dust, vapours.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, eye protection.

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P302+P352 - IF ON SKIN: Wash with plenty of with water & soap.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a doctor, a POISON CENTER if you feel unwell.
P321 - Specific treatment (see Read label before use. on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : CASSIA OIL
CAS-No. : 84961-46-6
EC-No. : 284-635-0

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CINNAMAL	(CAS-No.) 104-55-2 (EC-No.) 203-213-9	70 - 90	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
METHOXYCINNAMAL	(CAS-No.) 1504-74-1 (EC-No.) 216-131-3	3 - 15	Not classified
CINNAMYLE ACETATE	(CAS-No.) 103-54-8 (EC-No.) 203-121-9	0 - 7	Eye Irrit. 2, H319 Skin Sens. 1, H317
COUMARIN	(CAS-No.) 91-64-5 (EC-No.) 202-086-7	0.3 - 5	Acute Tox. 3 (Oral), H301 Skin Sens. 1, H317 Aquatic Chronic 3, H412
BENZALDEHYDE	(CAS-No.) 100-52-7 (EC-No.) 202-860-4 (EC Index-No.) 605-012-00-5	0.5 - 4	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Aquatic Chronic 3, H412
BENZYL BENZOATE	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9	0 - 1	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
CINNAMYL ALCOHOL	(CAS-No.) 104-54-1 (EC-No.) 203-212-3	0 - 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

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

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Immediately call a POISON CENTER/doctor. Specific measures (see Special handling directions on this label). Wash with plenty of water/... Wash contaminated clothing before reuse. If skin irritation occurs: Rinse skin with water/shower. Get medical advice/attention. Specific treatment (see Refer to instruction manual/booklet on this label). If skin irritation or rash occurs: Rinse skin with water/shower.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Consult an eye specialist. Get medical advice/attention.

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

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

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

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- Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing mist, fume, dust, vapours.
- Hygiene measures : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.
- Maximum storage period : 3 year Shelf life to guarantee the quality and properties of the product; After this period, it is recommended to control organoleptic and physicochemical properties before using the raw material.
- Storage temperature : ≈ 18 (5 - 25) °C
- Information on mixed storage : No specific measures are necessary.
- Storage area : Store in a well-ventilated place. Keep away from any flames or sparking source. Keep in the dark. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid mobile.
Colour	: Yellow. Brown. Black reddish/brownish.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 88 (88 - 90) °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.045 - 1.105
Solubility	: Poorly soluble in water. Solubility in ethanol.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 8 - 10.5 vol %

9.2. Other information

Refractive index : 1.6 - 1.614

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

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10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
 Acute toxicity (dermal) : Dermal: Harmful in contact with skin.
 Acute toxicity (inhalation) : Not classified

CASSIA OIL (84961-46-6)	
LD50 oral rat	2300 mg/kg
LD50 dermal rabbit	1500 mg/kg
CINNAMAL (104-55-2)	
LD50 oral rat	2220 mg/kg
LD50 dermal rabbit	> 1100 mg/kg
Additional information	Causes skin irritation. sévère - 40 mg / 48h (hmn)
METHOXYCINNAMAL (1504-74-1)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	5000 mg/kg
COUMARIN (91-64-5)	
LD50 oral rat	293 mg/kg
LD50 oral	202 mg/kg Guinea pig
LD50 dermal	242 mg/kg mouse
BENZALDEHYDE (100-52-7)	
LD50 oral rat	1300 mg/kg LD50 oral rat
LD50 oral	28 mg/kg LD50 oral mouse
LD50 dermal rabbit	1250 mg/kg
CINNAMYL ALCOHOL (104-54-1)	
LD50 oral rat	2000 mg/kg
LD50 oral	2675 mg/kg mouse & Guinea pig
LD50 dermal rabbit	> 5000 mg/kg
BENZYL BENZOATE (120-51-4)	
LD50 oral rat	1700 mg/kg
LD50 oral	1400 mg/kg LD50 oral mouse
LD50 dermal rat	4000 mg/kg
LD50 dermal rabbit	4000 mg/kg
LD50, mammalian, acute, oral, rabbit, systemic	= 1680 mg/kg
LD50, mammalian, acute, oral, Guinea pig, systemic	= 1121 mg/kg

Skin corrosion/irritation : Causes skin irritation.
 Serious eye damage/irritation : Causes serious eye irritation.
 Respiratory or skin sensitisation : May cause an allergic skin reaction.
 Germ cell mutagenicity : Not classified
 Additional information : Based on available data, the classification criteria are not met
 Carcinogenicity : Not classified
 Additional information : Based on available data, the classification criteria are not met
 Reproductive toxicity : Not classified
 Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified
 Additional information : Based on available data, the classification criteria are not met
 STOT-repeated exposure : Not classified
 Additional information : Based on available data, the classification criteria are not met
 Aspiration hazard : Not classified

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

Potential adverse human health effects and symptoms : Harmful in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

COUMARIN (91-64-5)	
LC50 fish 1	56 mg/l <i>Poecilia reticulata</i> (Guppy) - 96h
EC50 Daphnia 1	13.5 mg/l EC50 48h - <i>Daphnia magna</i> [mg/l]

BENZALDEHYDE (100-52-7)	
LC50 fish 1	11 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout) - 96h
LC50 other aquatic organisms 1	62 mg/l <i>Leuciscus idus</i> (golden orfe) - 48h
EC50 Daphnia 1	50 mg/l EC50 (<i>Daphnia Magna</i>) - 24h
LOEC (chronic)	0.45 mg/l 7d - <i>Pimephales promela</i> (fathead minnow)
NOEC chronic fish	0.22 mg/l 7d - <i>Pimephales promela</i> (fathead minnow)

BENZYL BENZOATE (120-51-4)	
LC50 fish 2	4.8 mg/l Scud (<i>Gammarus fasciatus</i>) 96h
LC50 other aquatic organisms 1	9.8 mg/l Scud (<i>Gammarus fasciatus</i>) 24h

12.2. Persistence and degradability

CASSIA OIL (84961-46-6)	
Persistence and degradability	Not established.

CINNAMAL (104-55-2)	
Persistence and degradability	Not established.

METHOXYCINNAMAL (1504-74-1)	
Persistence and degradability	Not established.

COUMARIN (91-64-5)	
Persistence and degradability	May cause long-term adverse effects in the environment.

BENZALDEHYDE (100-52-7)	
Persistence and degradability	May cause long-term adverse effects in the environment.

CINNAMYL ALCOHOL (104-54-1)	
Persistence and degradability	Not established.

BENZYL BENZOATE (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.

CINNAMYLE ACETATE (103-54-8)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

CASSIA OIL (84961-46-6)	
Bioaccumulative potential	Not established.

CINNAMAL (104-55-2)	
Bioaccumulative potential	Not established.

METHOXYCINNAMAL (1504-74-1)	
Bioaccumulative potential	Not established.

COUMARIN (91-64-5)	
BCF fish 1	0.046 mg/l <i>Leuciscus idus</i> (golden orfe) - 96h
Bioconcentration factor (BCF REACH)	< 10
Bioaccumulative potential	Not established.

BENZALDEHYDE (100-52-7)	
Log Pow	1.5
Bioaccumulative potential	Not established.

CINNAMYL ALCOHOL (104-54-1)	
Log Kow	1.95
Bioaccumulative potential	Not established.

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BENZYL BENZOATE (120-51-4)	
Log Kow	3.97
Bioaccumulative potential	Not established.

CINNAMYLE ACETATE (103-54-8)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR

14.1. UN number

UN-No. (ADR) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	CASSIA OIL - BENZALDEHYDE - BENZYL BENZOATE - CINNAMAL
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	CASSIA OIL - BENZALDEHYDE - BENZYL BENZOATE - CINNAMAL
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	BENZALDEHYDE - BENZYL BENZOATE

CASSIA OIL is not on the REACH Candidate List

CASSIA OIL is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to waters
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

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