

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 3/12/2015 Revision date: 6/29/2021 Supersedes version of: 4/8/2021 Version: 1.5

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

1.1. Product identifier

Product form : Substance

Substance name : CINNAMON LEAVES ORGANIC OIL

EC-No. : 283-479-0 CAS-No. : 84649-98-9 Product code : BCANHE02

Synonyms : CAS USA No 80015-91-6
Product group : Organic 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 5 rue des Pyrénées P.O. Box CP 30561 94653 Rungis Cedex - France T +33 (0)1 41 73 23 10

exaflor@orange.fr - www.exaflor.co

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

Skin corrosion/irritation, Category 2

H315

Serious eye damage/eye irritation, Category 2

H319

Skin sensitisation, Category 1

H317

Germ cell mutagenicity, Category 2

H341

Carcinogenicity, Category 1B

H350

Hazardous to the aquatic environment — Chronic Hazard, Category 2

H411

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Danger

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.

H341 - Suspected of causing genetic defects.

H350 - May cause cancer.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing mist, fume, dust, vapours. P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection.

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P312 - Call a POISON CENTRE or doctor 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.

P391 - Collect spillage.

P405 - Store locked up.

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

: CINNAMON LEAVES ORGANIC OIL Name

CAS-No. 84649-98-9 EC-No. 283-479-0

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
EUGENOL	CAS-No.: 97-53-0 EC-No.: 202-589-1	70 – 85	Acute Tox. 4 (Oral), H302 (ATE=1930 mg/kg de poids corporel) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
EUGENYL ACETATE	CAS-No.: 93-28-7 EC-No.: 202-235-6	1.3 – 8	Acute Tox. 4 (Oral), H302 (ATE=1670 mg/kg de poids corporel) Skin Irrit. 2, H315
BENZYL BENZOATE	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9	2-7	Acute Tox. 4 (Oral), H302 (ATE=1700 mg/kg de poids corporel) Aquatic Chronic 2, H411
BETA-CARYOPHYLLENE	CAS-No.: 87-44-5 EC-No.: 201-746-1	0 – 5.8	Not classified
LINALOOL	CAS-No.: 78-70-6 EC-No.: 201-134-4	0 – 3.4	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
CINNAMAL	CAS-No.: 104-55-2 EC-No.: 203-213-9	0 – 2.5	Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg de poids corporel) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
safrole; 5-allyl-1,3-benzodioxole	CAS-No.: 94-59-7 EC-No.: 202-345-4 EC Index-No.: 605-020-00-9	0 – 2.5	Acute Tox. 4 (Oral), H302 (ATE=1950 mg/kg de poids corporel) Muta. 2, H341 Carc. 1B, H350

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

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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 : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Immediately call a POISON CENTER/doctor. Specific measures (see supplemental first aid instruction on this label). Wash with plenty of water/... Wash contaminated clothing before

reuse. If skin irritation occurs: Wash with plenty of water/.... Get medical advice/attention. Specific treatment (see Read label before use. on this label). If skin irritation or rash occurs:

Wash with plenty of water/....

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 : Suspected of causing genetic defects. May cause cancer.

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

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

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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. Avoid release to the environment.

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. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety

precautions have been read and understood.

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

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

sunlight, Heat sources. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Maximum storage period : 36 months Storage temperature : \approx 18 (5 – 25) °C

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Yellow. amber. Dark. Appearance : Liquid mobile. Clear.

Odour : typical of the main component . spicy. sweet.

Odour threshold : Not available
Melting point : Not available
Freezing point : Not available
Boiling point : Not available
Flammability : Non flammable.

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Explosive limits : Not available Lower explosive limit (LEL) : Not available : Not available Upper explosive limit (UEL) 94 °C Flash point Auto-ignition temperature Not available Decomposition temperature Not available Not available рΗ Viscosity, kinematic Not available Solubility : Insoluble in water. Partition coefficient n-octanol/water (Log Kow) : Not available : Not available Vapour pressure Vapour pressure at 50 °C : Not available : Not available Density : 1.03 - 1.06 Relative density Relative vapour density at 20 °C : Not available Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable : Not applicable Particle aggregation state Particle agglomeration state : Not applicable Particle specific surface area : Not applicable Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Refractive index : 1.525 – 1.545

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.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Harmful in contact with skin.

Acute toxicity (inhalation) : Not classified

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CINNAMON LEAVES ORGANIC OIL (84649-98-9)		
LD50 oral rat	2700 mg/kg	
LD50 dermal rabbit	≈ 5000 mg/kg	
EUGENOL (97-53-0)		
LD50 oral rat	1930 mg/kg	
LC50 Inhalation - Rat [ppm]	> 384 ppmv/4h	
EUGENYL ACETATE (93-28-7)		
LD50 oral rat	1670 mg/kg	
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	
LINALOOL (78-70-6)		
LD50 oral rat	2790 mg/kg	
LD50 oral	3120 mg/kg LD50 oral mouse	
LD50 dermal rabbit	5610 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)	
safrole; 5-allyl-1,3-benzodioxole (94-59-7)		
LD50 oral rat	1950 mg/kg	
LD50 dermal rabbit	5000 mg/kg	
Skin corrosion/irritation : Serious eye damage/irritation : Respiratory or skin sensitisation :	Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.	
Germ cell mutagenicity :	Suspected of causing genetic defects. May cause cancer.	
EUGENOL (97-53-0)		
IARC group	3 - Not classifiable	
safrole; 5-allyl-1,3-benzodioxole (94-59-7)		
IARC group	2B - Possibly carcinogenic to humans	
Reproductive toxicity : Additional information : STOT-single exposure : Additional information : CTOT reported exposure	Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met	
STOT-repeated exposure : Additional information :	Not classified Based on available data, the classification criteria are not met	

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Aspiration hazard : Not classified

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

: Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and

symptoms

: Harmful in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

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

Hazardous to the aquatic environment, short-term

Hazardous to the aquatic environment, long-term

(acute)

: Toxic to aquatic life with long lasting effects.

(chronic)

5.11.51.11.57		
EUGENOL (97-53-0)		
LC50 - Fish [1]	13 mg/l Brachydanio rerio (zebra-fish) - 96h	
EC50 - Crustacea [1]	1.13 mg/l EC50 48h - Daphnia magna [mg/l]	
BENZYL BENZOATE (120-51-4)		
LC50 - Fish [2]	4.8 mg/l Scud (Gammarus fasciatus) 96h	
LC50 - Other aquatic organisms [1]	9.8 mg/l Scud (Gammarus fasciatus) 24h	
LINALOOL (78-70-6)		
LC50 - Fish [1]	27.8 mg/l EC 50 (fish : rainbow trout) : - 96h	
LC50 - Other aquatic organisms [1]	88.3 mg/l Desmodesmus subspicatus (green algae) - 96h	
EC50 - Crustacea [1]	59 mg/l EC50 48h - Daphnia magna [mg/l]	
NOEC chronic fish	3.5 mg/l Oncorhynchus mykiss (Rainbow trout)- 96h	
NOEC chronic crustacea	25 mg/l daphnia - 48h	

12.2. Persistence and degradability

CINNAMON LEAVES ORGANIC OIL (84649-98-9)		
Persistence and degradability May cause long-term adverse effects in the environment.		
EUGENOL (97-53-0)		
Persistence and degradability	Readily biodegradable. May cause long-term adverse effects in the environment.	
EUGENYL ACETATE (93-28-7)		
Persistence and degradability	Not established.	
BENZYL BENZOATE (120-51-4)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
LINALOOL (78-70-6)		
Persistence and degradability	Readily biodegradable. Not established.	
Biodegradation	100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B	

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CINNAMAL (104-55-2)	
Persistence and degradability Not established.	
safrole; 5-allyl-1,3-benzodioxole (94-59-7)	
Persistence and degradability Not established.	

12.3. Bioaccumulative potential

CINNAMON LEAVES ORGANIC OIL (84649-98-9)		
Bioaccumulative potential	Not established.	
EUGENOL (97-53-0)		
Partition coefficient n-octanol/water (Log Pow)	2.7	
Partition coefficient n-octanol/water (Log Kow)	2.27	
Bioaccumulative potential	Not established.	
EUGENYL ACETATE (93-28-7)		
Partition coefficient n-octanol/water (Log Kow)	3.06	
Bioaccumulative potential	Not established.	
BENZYL BENZOATE (120-51-4)		
Partition coefficient n-octanol/water (Log Kow)	3.97	
Bioaccumulative potential	Not established.	
LINALOOL (78-70-6)		
Partition coefficient n-octanol/water (Log Pow)	2.97	
Bioaccumulative potential	Not established.	
CINNAMAL (104-55-2)		
Bioaccumulative potential	Not established.	
safrole; 5-allyl-1,3-benzodioxole (94-59-7)		
Partition coefficient n-octanol/water (Log Kow)	3.45	
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. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

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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 contents/container to agreemented companies according to national

regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR

14.1. UN number or ID 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

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14.4. Packing group

Packing group (ADR) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : Yes

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3.	CINNAMON LEAVES ORGANIC OIL	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
28.	CINNAMON LEAVES ORGANIC OIL	Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
29.	CINNAMON LEAVES ORGANIC OIL	Substances which are classified as germ cell mutagen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 3 or Appendix 4, respectively.

CINNAMON LEAVES ORGANIC OIL is not on the REACH Candidate List

CINNAMON LEAVES ORGANIC OIL is not on the REACH Annex XIV List

CINNAMON LEAVES ORGANIC OIL is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

CINNAMON LEAVES ORGANIC OIL is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 2888)

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

List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907

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. 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	
Carc. 1B	Carcinogenicity, Category 1B	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Muta. 2	Germ cell mutagenicity, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
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.	
H341	Suspected of causing genetic defects.	
H350	May cause cancer.	
H411	Toxic to aquatic life with long lasting effects.	

Safety Data Sheet (SDS), EU

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