

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

CINNAMON BARK OIL BIO

Version 9

Revision Date 07.06.2020

Print Date 18.02.2021

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Commercial Product Name : CINNAMON BARK
Material number : 165903
CAS-No. : 84649-98-9, 8015-91-6
EC-No. : 283-479-0

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

Use of the Substance/Mixture : Fragrance

1.3 Details of the supplier of the safety data sheet

Company :
Telephone :
Telefax :
E-mail address : info@...

1.4 Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2

Eye irritation, Category 2

Skin sensitisation, Category 1

Chronic aquatic toxicity, Category 3

H315

H319

H317

H412

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



Hazard pictograms

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Signal word	: Warning	
Hazard statements	: H315 H317 H319 H412	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	: Prevention: P273 P280 Response: P302 + P352 P305 + P351 + P338 P333 + P313 P337 + P313	Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.
Contains	: CINNAMIC ALDEHYDE, CARYOPHYLLENE, LINALOOL, EUGENOL.	

2.3 Other hazards

No data available

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization : Cinnamomum zeylanicum, ext.
CAS-No. : 84649-98-9, 8015-91-6
EINECS-No. / ELINGS No. : 283-479-0

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Cinnamaldehyde	104-55-2 203-213-9	Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1; H317	>= 50 - <= 100
Linalool	78-70-6 201-134-4	Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1B; H317	>=5-<10
Eugenol	97-53-0 202-589-1	Eye Irrit.: 2; H319 Skin Sens.: 1B; H317	>=1-<5
Caryophyllene	87-44-5 201-746-1	Asp. Tox.: 1; H304 Skin Sens.: 1B; H317	>=1-<5
Benzyl benzoate ¹⁾	120-51-4 204-402-9	Acute Tox.: 4 (Oral); H302 Aquatic Acute: 1; H400 Aquatic Chronic: 2; H411	>=1-<5
Cineole	470-82-6 207-431-5	Flam. Liq.: 3; H226 Skin Sens.: 1; H317	>=1-<5
p-Mentha-1(7),2-diene	555-10-2 209-081-9	Asp. Tox.: 1; H304 Flam. Liq.: 3; H226	>=1-<5
p-Cymene	99-87-6 25155-15-1 202-796-7 246-674-1	Asp. Tox.: 1; H304 Aquatic Chronic: 2; H411 Flam. Liq.: 3; H226 Repr.: 2; H361	>=1-<5
Cinnamyl alcohol	104-54-1 203-212-3	Skin Sens.: 1B; H317	>=0,1-<1
[1R-(1R*,4R*,6R*,10S*)]-4,12,12-Trimethyl-9-methylene-5-oxatricyclo[8.2.0.0.4,6]dodecane	1139-30-6 214-519-7	Aquatic Chronic: 2; H411	>=0,1-<1
Pin-2(3)-ene	80-56-8 201-291-9	Flam. Liq.: 3; H226 Acute Tox.: 4(Oral); H302 Skin Irrit.: 2; H315 Skin Sens.: 1B; H317 Asp. Tox.: 1; H304 Aquatic Acute: 1; H400 M-Factor: 1	>=0,1-<1
(R)-p-Mentha-1,8-diene	5989-27-5	Asp. Tox.: 1; H304	>=0,1-<1

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	227-813-5	Aquatic Chronic: 1; H410 Aquatic Acute: 1; H400 Skin Sens.: 1B; H317 Skin Irrit.: 2; H315 Flam. Liq.: 3; H226	
Camphene ¹⁾	79-92-5 201-234-8	Flam. Sol.: 2; H228 Eye Irrit.: 2; H319 Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410	>=0,1-<1
Hydratropaldehyde	93-53-8 202-255-5	Skin Irrit.: 2; H315 Repr.: 2; H361 Skin Sens.: 1; H317 Eye Irrit.: 2; H319	>=0,1-<1
Pin-2(10)-ene	127-91-3 204-872-5	Flam. Liq.: 3; H226 Skin Irrit.: 2; H315 Skin Sens.: 1B; H317 Asp. Tox.: 1; H304	>=0,1-<1
p-Mentha-1,3-diene	99-86-5 202-795-1	Aquatic Chronic: 2; H411 Asp. Tox.: 1; H304 Acute Tox.: 4 (Oral); H302 Flam. Liq.: 3; H226	>=0,1-<1
Styrene	100-42-5 202-851-5	Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Acute Tox.: 4 (Inhalation); H332 Flam. Liq.: 3; H226 Asp. Tox.: 1; H304 STOT RE: 1 (Inhalation); H372 STOT SE: 3 (Inhalation); H335 Repr.: 2; H361 Aquatic Chronic: 3; H412	>=0,1-<1
Undecan-4-olide	104-67-6 203-225-4	Aquatic Chronic: 3; H412	>=0,1-<1

For the full text of the H-Statements mentioned in this Section, see Section 16.

Short-term (acute) aquatic:
Hazard

¹⁾ 0,1 < L(E)C50 <= 1 mg/l
²⁾ 0,01 < L(E)C50 <= 0,1mg/l

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	: Move out of dangerous area. Never give anything by mouth to an unconscious person.
Inhalation	: Move to fresh air.
Skin contact	: Take off all contaminated clothing immediately. If symptoms persist, call a physician. Wash off immediately with soap and plenty of water.
Eye contact	: Protect unharmed eye. Irrigate copiously with clean, fresh water for a least 10minutes, holding the eyelids apart.
Ingestion	: Prevent vomiting if possible. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media which shall not be used for safety reasons	: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	: Do not use a solid water stream as it may scatter and spread fire. Do not allow run-off from fire fighting to enter drains or water courses.
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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.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Ensure adequate ventilation.
Use personal protective equipment.
Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

- Environmental precautions : Should not be released into the environment.
Do not allow material to contaminate ground water system.
Do not let product enter drains.
Avoid subsoil penetration.
Do not contaminate water.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials 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).
Dam up.
Wipe up with absorbent material (e.g. cloth, fleece).
- Additional advice : Local authorities should be advised if significant spillages cannot be contained.
Suppress (knock down) gases/vapours/mists with a water spray jet.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Advice on safe handling : Wear personal protective equipment.
Dispose of rinse water in accordance with local and national regulations.
Avoid contact with skin and eyes.
For personal protection see section 8.
- Advice on protection against fire and explosion : When using do not smoke.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
To maintain product quality, do not store in heat or direct sunlight.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage

: No special restrictions on storage with other products.

Other data

: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Fragrance

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters, Germany:

Components	CAS-No.	Control parameters	Update	Basis
(R)-p-Mentha-1,8-diene	5989-27-5	AGW 5 ppm	04 2013	TRGS 900
Styrene	100-42-5	AGW 20 ppm	09 2012	TRGS 900

Components with workplace control parameters, United Kingdom:

Components	CAS-No.	Control parameters	Update	Basis
Styrene	100-42-5	STEL 250 ppm	12 2011	EH 40 WEL
		TWA 100 ppm	12 2011	EH 40 WEL

Components with workplace control parameters, Spain:

Components	CAS-No.	Control parameters	Update	Basis
Pin-2(3)-ene	80-56-8	VLA-ED 20 ppm	2012	VLA (ES)
(R)-p-Mentha-1,8-diene	5989-27-5	TWA 30 ppm	2018	VLA (ES)
Pin-2(10)-ene	127-91-3	VLA-ED 20 ppm	2012	VLA (ES)
Styrene	100-42-5	VLA-EC 40 ppm	2012	VLA (ES)
		VLA-ED 20 ppm	2012	VLA (ES)

Components with workplace control parameters, France:

Components	CAS-No.	Control parameters	Update	Basis
Styrene	100-42-5	VME 23,3 ppm	10 2016	INRS (FR)
		VLE 46,6 ppm	10 2016	INRS (FR)

Components with workplace control parameters, Poland:

Components	CAS-No.	Control parameters	Update	Basis
Styrene	100-42-5	NDS 50 mg/m ³	12 2011	POL MAC
		NDSch 100 mg/m ³	06 2014	POL MAC
Benzaldehyde	100-52-7	NDS 10 mg/m ³	12 2011	POL MAC
		NDSch 40 mg/m ³	12 2011	POL MAC

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8.2 Exposure controls

Engineering measures

none

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.
Wear chemicals-resistant gloves, e.g. safety gloves of chloroprene Level 2 or of butyl rubber Level 6.
- Eye protection : Safety glasses
- Skin and body protection : Lightweight protective clothing
Remove and wash contaminated clothing before re-use.
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
- Protective measures : Avoid contact with skin.
When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

- Form : clear liquid
- Colour : light yellow to dark yellow
- Odour : characteristic
- Odour Threshold : No data available

Safety data

- Flash point : 90 °C
- Water solubility : immiscible
- Relative density : 1,0100 - 1,0300 at
20 °C relation to density of water at 4°C
- Bulk density : Not applicable
- Relative vapour density : not determined
- Vapour pressure : < 1 kPa at 50 °C
calculated
- Melting point/freezing point :
not determined
- Boiling point : not determined
- Partition coefficient: n-octanol/water : log Pow:
not determined
- pH : Not applicable
- Evaporation rate : Lower than the evaporation rate of butyl acetate = 1

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Flammability (solid, gas)

: Not applicable

Auto-ignition temperature

: The substance or mixture is not classified as self heating.

Decomposition temperature : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

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

Lower explosion limit : Vapours may form explosive mixtures with air.

Upper explosion limit : Vapours may form explosive mixtures with air.

A final assessment of potential explosion hazards can only be made on a case-by-case basis when precise information is available on product handling, production setup and the circumstances surrounding the use of the product.

9.2 Other data

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity : No data available

10.2 Chemical stability : No data available

10.3 Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid : No data available

10.5 Incompatible materials to avoid : No data available

10.6 Hazardous decomposition products : No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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

Acute inhalation toxicity : No data available

Acute dermal toxicity : Acute toxicity estimate : 1.632 mg/kg, Calculation method

Repeated dose toxicity : No data available

Acute toxicity (other routes of administration) : No data available

Skin irritation : No data available

Eye irritation : No data available

Sensitisation : No data available

Mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

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Teratogenicity : No data available

Specific target organ toxicity
- single exposure : No data available

Specific target organ toxicity
- repeated exposure : No data available

Aspiration toxicity : No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB 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 Other adverse effects

Harmful to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.
The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not classified as dangerous in the meaning of transport regulations.

14.2 Proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class

Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

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14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

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

Risk classification according : Flash Point > 55 °C up to 100 °C, at 15 °C not miscible with water to BetrSichV (Germany)

Water contaminating class : WGK 2 (obviously hazardous to water)
(Germany) 2.888

15.2 Chemical safety assessment

No data available

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.:

H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
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.
H413	May cause long lasting harmful effects to aquatic life.

Further information

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

Any data changes with reference to previous versions are marked by a vertical line in front of the concerned paragraph.