BIORUŽA, s. r. o.

Laborecká 1, 010 01 Žilina, IČO: 52234070, IČ DPH: SK2120953802, tel .: 00421 905 864 140, info@bioruza.sk

MATERIAL SAFETY DATA SHEET

Under Regulation № 830/2015 (EU)

Version No: 1.00

Created on: 18.03.2025

1 - Identification of Product and Supplier

1.1. Product Identification

Product Name: **Cinnamon Leaf Essential Oil**

INCI Name: Cinnamomum Zeylanicum Leaf Oil

Chemical composition: Cinnamon Leaf Oil is obtained by steam distillation of the leaves of *Cinnamomum zeylanicum* Nees, *Lauraceae.*

H-No:	3301.29	CAS No:	84649-98-9 / 8015-91-6
Status:	Natural	FEMA:	2291
Additives:	None	FDA:	182.20
EC No:	283-479-0	IFRA:	Restricted
EINECS-CAS No:	283-479-0	Additives:	None

REACH registration number: Due to its natural (non-chemical) of natural origin are exempt from REACH registration European Union L286/16 (9/10/08); Directive 67/548/EEC

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

Application: Skincare, Aromatherapy, Perfuming, Flavouring

Uses advised against: No data

1.3. Supplier data

Producer: «Essential Oils India» Ltd

Address: India

Supplier for Bulgaria: BIORUŽA s.r.o.

Address: Laborecká 1, 01001 Žilina, Slovakia

Tel/Fax: 00421 905 864 140

Email: info@bioruza.sk

URL website: www.bioruza.sk

1.4. Emergency Contact

Tel: National Toxicology Information Center: Phone: 02/54774166

2 - Hazards identification:

2.1. Substance or mixture classification

SGH Classification:
(Legislation CLP)

AH1 Aspiration hazard 1
EHC2 Hazardous to the aquatic environment, long-term hazard 2
FL3 Flammable Liquids 3
SCI2 Skin corrosion / irritation 2

SS1 Sensitisation skin 1

H226 - Flammable liquid and vapour.
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.
H350 - May cause cancer.
H411 - Toxic to aquatic life with long lasting effects

Classification according to EU Directives 67/548/EEC and 1999/45/EC:

- Physico-chemical Hazards :

R10:Flammable.

- Health Hazards : Xn

R22: Harmful if swallowed.
R23/25: Toxic by inhalation and if swallowed.
R38:Irritating to skin.
R41: Risk of serious damage to eyes.
R43:May cause sensitization by skin contact.
R65:Harmful: May cause lung damage if swallowed.

- Environnemental Hazards : N

R50-53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

2.2. Label elements

According to Regulation (EC) No 1272/2008 on the classification, labeling and packaging of substances and mixtures.

Label Informationn:

SGH Classification:
(LegislationCLP)

Mention d'avertissement : Danger

AH1 Aspiration hazard 1
EHC2 Hazardous to the aquatic environment, long-term hazard 2
FL3 Flammable Liquids 3
SCI2 Skin corrosion / irritation 2
SS1 Sensitisation skin 1

Hazards Statement :

H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H411 - Toxic to aquatic life with long lasting effects

Safetyphrases:

Safetyphrases (PREVENTION):

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash … 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/face protection.
P281	Use personal protective equipment as required.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention.
P313	Get medical advice/attention.
P321	Specific treatment (see … on this label).
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P33	If eye irritation persists:

P363 Wash contaminated



Signal Word	Danger
Contains	5-ALLYL-1,3-BENZODIOXOLE Alpha pinene natural Cinnamic Aldehyde EUGENOL

Classification according to EU Directives 67/548/EEC and 1999/45/EC:

In accordance with Directive 67/548/EEC on classification, packaging and labeling of dangerous substances.

- Physico-chemical Hazards :

R10:Flammable.

- Health Hazards : Xn

R22: Harmful if swallowed.
R23/25: Toxic by inhalation and if swallowed.
R38:Irritating to skin.
R41: Risk of serious damage to eyes.
R43:May cause sensitization by skin contact.
R65:Harmful: May cause lung damage if swallowed.

- Environnemental Hazards : N

R50-53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S37:Wear suitable gloves.
S61:Avoid release to the environment. Refer to special instructions / Safety data sheets.
S24:Avoid contact with skin.
S62:If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Labeling Information :





2.3. Other hazards

PBT/vPvB assessment :
According to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

No data available.

3 - Composition and information on ingredients:

Category: Substance
Substancesrepresentingthedanger: Composition: (Hold for the classification in "IFRA IOFI LM-2011")

Chemical Name	EINECS No	CAS No	%
Cupressus Sempervirens Leaf Essential Oil	-	8013-86-3/ 84696-07-1	100

3.1. Substances

Chemical Name	EC-No	CAS-No	Weight percent	Classification (67/548)	Classification (EC 1272/2008)
(R)-(-) alpha-phellandrene	EC No.: 224-167-6	CAS-No.: 4221-98-1	1 - 5	Xn;R65. R10.	Flam. Liq. 3 - H226 Asp. Tox. 1 - H304
5-ALLYL-1,3-BENZODIOXOLE	202-345-4	94-59-7	≤ 1	Carc. Cat. 2;R45 Muta. Cat. 3;R68 Xn;R22	Acute Tox. 4 - H302 Muta. 2 - H341 Carc. 1B - H350
Alpha pinene natural	201-291-9	80-56-8	1 - 5	Xn;R65. N;R50/53. R43,R10.	Flam. Liq. 3 - H226 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
BENZYL BENZOATE	204-402-9	120-51-4	1 - 5	Xn;R22 N;R51/53	Acute Tox. 4 - H302 Aquatic Chronic 2 - H411
Beta Caryophyllene	201-746-1	87-44-5	1 - 5	Xn;R65.	Asp. Tox. 1 - H304
Cinnamic Aldehyde	203-213-9	104-55-2	1 - 5	Xn;R21. Xi;R38. R43.	Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Skin Sens. 1 - H317
Cinnamyl Acetate	203-121-9	103-54-8	1 - 5	Xi;R36.	Eye Irrit. 2 - H319
EUGENOL	202-589-1	97-53-	60 - 100	Xi;R36. R43.	Acute Tox. 5 - H303 Skin Irrit. 3 - H316 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Acute 2 - H401

4 - First aid measures:

4.1. First aid measures Description

General Tips: Remove contaminated clothing. If you feel unwell: consult a doctor. Show container, label and / or safety data sheet to the doctor. If there is unconsciousness of the victim put in recovery position. Consider the risk phrases and safety section -15.

In case of contact with skin: Wash the contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash thoroughly with water contaminated clothing before removing or wear gloves. If symptoms, avoid exposing greater length.

In case of eye contact: Rinse immediately with clean water or any solution provided for this purpose for 15 minutes holding the eye open. Check if the victim is wearing contact lenses

and in this case, remove him. Consult ophthalmologist immediately.

If swallowed: Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a doctor. If vomiting occurs, keep head down to prevent the passage of vomit into the lungs. In case of persistent or worsening symptoms consult a doctor. If unconscious, place the person in recovery position (SLP) and call a doctor.

If inhaled: Evacuate person to uncontaminated area. Breath fresh air. If breathing difficulties persist, consult a doctor. If unconscious, place the person in recovery position and call a doctor.

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

Potential acute health

In case of eye contact: No significant effects or critical hazards.
In case of contact with skin : May cause skin irritation.
In case of contact with skin : May cause an allergic skin reaction.
If swallowed : No significant effects or critical hazards.
If inhaled : No significant effects or critical hazards.

Signs / symptoms of overexposure

In case of eye contact : No specific data.
In case of contact with skin : Signs / symptoms may include harmful: Irritation, redness.
If swallowed : No specific data.
If inhaled : No specific data.

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

Note to doctor : No special treatment.
Specific treatment : No special treatment.

5 - Fire - Fighting measures:

5.1. Extinguishing media

Suitable extinguishing media : Extinguisher recommended for Carbon Dioxide or Dry Chemical, Foam Universal otherwise.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture :

Hazards from the substance or mixture

Special hazards of fire and explosion: The pressure in closed containers may increase at high temperature. Cool if possible containers with water spray. Evolution of fumes / fog.

Hazardous Combustion Products

Decomposition products can eventually leave the following substances: carbon dioxide, carbon monoxide.

5.3 Advice for firefighters :

Special precaution for firefighters: In the presence of fire, quickly identify the site by removing all persons located near the scene of the accident. No action shall be taken involving any personal risk or the abscence of proper training.

Special protective equipment : Wear breathing apparatus and protective suit against chemical agents.

Protective measures : In case of fire keep containers cool by spraying with water.

Other information: Collect separately contaminated extinguishing water, do not allow to enter drains and sewers. Dispose of fire debris and contaminated water in accordance with local regulations.

6 - Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures :

For non-emergency personnel: No action shall be taken in the abscence of proper training or involves personal risk. Prevent access to persons not required and not wearing protective clothing. DO NOT touch or walk through spilled material. Avoid breathing vapor or mist. Ensure adequate ventilation. If the ventilation is inadequate, wear appropriate respiratory protection.

	Wear protective equipment.
For emergency responders:	If specialized clothing is needed to address the spill, see Section 8 for appropriate and inappropriatematerials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions :

Avoid dispersal of spilled product, and runoff to avoid contamination of drains, surface water and groundwater. Respect the national legislative and inform the competent authorities in case of pollution by the product of the environment (sewers, waterways, soil and air). Suitable material to pollute the water. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up :

Small accidental spill:
Stop leak if without risk. Remove containers from spill area. Dilute with water and mop up if watersoluble. Otherwise, or if the material is insoluble in water, absorb with an inert dry material and place in appropriate waste container. Dispose of via a licensed waste collection company.

Large accidental spill:
Stop leak if without risk. Remove containers from spill area. Prevent entry into sewers, rivers,exhaust ducts, basements or confined areas. Wash spillages into an effluent treatment plant orproceed as follows. Dispose of via a licensed waste collection company. Contain leaks and pick upthe product using absorbent non-combustible materials such as sand, earth, vermiculite ordiatomaceous earth. Then place in a container according to local regulations. Dispose of via alicensed waste collection company.
Contaminated absorbent material may pose the same hazards as the spilled product.

6.4 Reference to other sections :

: See Section 1 for contact information in case of emergency.
: See Section 8 for information on appropriate personal protective equipment.
: See Section 13 for additional information on waste treatment.

7 - Handling and storage:

7.1 Precautions for safe handling :

Protective measures:
Put on appropriate personal protective equipment (see Section 8). People with a history of skin sensitization should not intervene in the processes using this product. Do not allow contact with eyes, skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in original container or in a container approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be dangerous. Do not reuse this container.

General advice on occupational health:
It is forbidden to eat, drink or smoke in areas where this material is handled, stored or used. It is recommended that staff wash their hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering a food court. See also Section 8 for more information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities :

Store in accordance with local regulations. Store in original container protected from direct sunlight in a endroid dry, cool and well ventilated place away from incompatible materials (see Section 10). Keep container tightly closed when not in use. The containers have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate
container to avoid environmental contamination.

7.3 Specific end use(s) :

Recommendations : Not available.
Specific guidance at industrial level : Not available.
100% natural essential oil is used in pharmaceuticals, food and cosmetics.

8 - Exposure controls and personal protection:

8.1 Control parameters

Occupational exposure limits: No data

Recommended monitoring procedures:
If the product contains ingredients with occupational exposure limits, it may be necessary to track people, the atmosphere in the workplace to determine the effectiveness of the ventilation or other measures control or the necessity to use protective

equipment in the airways. It is important to refer to European Standard EN 689 for methods for assessing exposure by inhalation to chemical agents and national legislative documents relating to methods for determining hazardous substances.

8.2 Exposure controls :

Appropriate engineering controls:	No special ventilation requirements. Good general ventilation should be sufficient to control exposure to airborne contaminants stakeholders in the air. If this product contains ingredients which constraints exposure limits, use process enclosures, local exhaust ventilation or other controls to keep worker exposure below the limits of stakeholders recommended or Legal.

Individual protection measures

Hygiene measures:	Thoroughly wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and at the end of the workday. It is recommended to use appropriate techniques to remove potentially contaminated work clothes. Contaminated work clothing should not leave the workplace. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are near the location of workstations.
Eye / face protection:	Use eye protection that conforms to a standard validated when a risk assessment indicates the need to limit or avoid exposure to liquid splashes, mists, gases or dusts.

Skin Protection

Hand Protection:	The impervious gloves and chemical resistant, according to a standard validated, is mandatory at all times when handling chemical products if a risk assessment stated.
Body Protection:	The personal protective equipment for the body should be selected according to the task performed and the risks involved. It is recommended to validate the equipment by a specialist before handling this product.
Other skin protection:	The proper footwear and any measure of skin protection should be chosen according to the task performed and the risks involved. It is recommended to validate the equipment by a specialist before handling this product.
Respiratory Protection:	Wear a respirator fitted with an air purifier or an air supply, good fitting and conforming to a standard if a risk assessment indicates this is necessary. The choice of respiratory protection should be based on levels of known or anticipated exposure, the danger of the product and the limits of safe use of the device used.
Control of Environmental Exposure:	It is important to test emissions from ventilation systems or manufacturing equipment to ensure they comply with legislative requirements on environmental protection
Remark(s):	The recommended glove depends not only on their terms. Other factors may have an influence, as their thickness, a specific use or temperature conditions. Ask your supplier if the gloves are suitable for such use.

9 - Physical data and chemical properties:

9.1 Information on basic physical and chemical properties.

Appearance:	Mobile liquid
Colour:	Clear brownish yellow to red-brown (amber)
Odour:	Characteristic
Flash point (°C):	80-90 (Closed cup)
Relative Density @ 20°C:	1.030 – 1.060
Refractive Index @ 20°C:	1.527 – 1.540
Vapour Pressure (kPa):	0.037
Viscosity:	Kinematic viscosity in 10-6 m2/s at 40C (ISO 3104 / 3105)

9.2. Other information

Other physical and chemical parameters – certificate of analysis

10 - Stability and Reactivity:

10.1 Reactivity

Corrosion of metals:	No corrosive effect on metals expected.
Formation of flammable gas:	With water, no formation of flammable gases.

10.2 Chemical stability

The product is stable.
The product does not contain peroxides.

10.3 Possibility of hazardous reactions

No hazardous reactions under conditions of storage and use according to instructions.

10.4 Conditions to avoid

Avoid any source of ignition, heat, sparks or flames.
High temperature near flash point

10.5 Incompatible materials

Strong oxidising agents, acids and alkali's.

10.6 Hazardous decomposition products

Likely to cause smoke and acrid fumes during combustion: carbon dioxide, carbon monoxide and other non-identified organic compounds may be formed.

11 - Toxicological information:

11.1. Information on toxicological

Potential acute health : This preparation has not suffered as such toxicology tests, but it is composed of substances with an established toxicological literature. The health hazards have been assessed following the conventional method of calculation described in Annex II of Directive 1999/45/EC.

Additional information : We recommend handling this product with all the usual precautions in view of the difficulty of the routine toxicological evaluation techniques to prevent potentially dangerous and unpredictable synergy of people particularly susceptible.

Toxicological Informations Acute :

Toxic Dose 1 - LD 50:	2.65 mg/kg (oral rat)
Inhalation:	In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
Ingestion:	May cause discomfort if swallowed.
Skin Contact:	May cause sensitisation by skin contact.
Eye Contact:	Spray and vapour in the eyes may cause irritation and smarting.
Name:	Cinnamic Aldehyde
Toxic Dose 1 - LD 50:	2220 mg/kg (oral rat)

12 - Ecological information:

Ecotoxicity :

Toxicity to fish : CL50 (96h) : mg/l
Toxicity to aquatic invertebrates : CE50 (48h) : mg/l
Toxicity to aquatic plants : CE50 (72h) : mg/l

Toxicity to microorganisms / Effect on activated sludge :
CE10 (16h) : mg/l
CE10 (0,5h) : mg/l

Persistence and degradability

Assessment of persistence and degradability : No Additional Information.

Potential Bioaccumulative

Assessment of bioaccumulation potential : No Additional Information.

Additional informations

Other ecotoxicological informations :

Avoid intentional release into the ecosystem and report any accidental release.
Do not let the product in the waters without any treatment.

13 - Disposal considerations:

13.1 Waste treatment methods

Product

Methods of waste disposal:

It is recommended to avoid or minimize waste generation. Do not dispose of significant quantities of wastes produced by the sewers. Treat them to a processing plant wastewater properly. Remove all sheets exédentaires products and non-recyclable products via a licensed waste collection. Disposing of this product, solutions and sub-products should at all times comply with the legal requirements of environmental protection and disposal of wastes and the requirements of all local authorities.

Hazardous Waste:

It may be that the classification of the product meets the criteria of hazardous waste

Packaging

Methods of waste disposal:

It is recommended to avoid or minimize waste generation. Recycle packaging waste. Consider incineration or landfilling only if recycling is impossible.

Special precautions:

Do not dispose of this material and its container in a safe way. Handle with care uncleaned empty containers or rinsed. Empty containers may contain product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, sewers and drainage pipes.

14 - Transport information:

UN:	Not regulated
Road (ADR/RID):	Not regulated
AIR (IATA):	Not regulated
SEA (IMDG):	Not regulated
CHIP:	See section 15

15 - Regulatory information:

EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
Statutory instruments	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Approved code of practice	Classification and Labelling of Substances and Preparations Dangerous for Supply.
Guidance notes	Workplace Exposure Limits EH40. CHIP for everyone HSG (108).
Hazards:	Irritant, Dangerous for the environment
Symbols:	Xi, N
Risk Phrases:	R22: Harmful if swallowed. R23/25: Toxic by inhalation and if swallowed. R38:Irritating to skin. R41: Risk of serious damage to eyes. R43:May cause sensitization by skin contact. R65:Harmful: May cause lung damage if swallowed. R50-53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases:	S37:Wear suitable gloves. S61:Avoid release to the environment. Refer to special instructions / Safety data sheets. S24:Avoid contact with skin. S62:If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16 - Other information:

Full text of H-phrases mentioned in Section 3 :

H226 Flammable liquid and vapour.
H228 Flammable solid.
H302 Harmful if swallowed.
H303 May be harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H400 Very toxic to aquatic life.
H401 Toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects

Full text of R-phrases mentioned in Section 3 :

R10 Flammable.
R11 Highly flammable.
R38 Irritating to skin.
R20/22 Harmful by inhalation and if swallowed.
R51-53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R43 May cause sensitization by skin contact.
R68/22 Harmful: possible risk of irreversible effects if swallowed.
R65 Harmful: May cause lung damage if swallowed.
R50-53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

The information contained herein are based on our present knowledge of the product concerned on the date indicated.They are based on "IFRA IOFI LM-2012".

PACKAGING:

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

SHELF LIFE

When stored within advised conditions, re-test after 12 months then every 3 months up to a maximum shelf life of 36 months.

Q.C. REQUIREMENTS

In-line with general product specification. Always satisfy suitability for specific application.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding it's' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.