BIORUŽA, s. r. o.

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

SAFETY DATA SHEET (SDS)

Essential Oil: Cardamom Essential Oil
SDS Created: 10 June 2025
Revision Date: August 07, 2028

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1 Globally Harmonized System (GHS) product identifier
Product name: Cardamom - Organic
Latin name of botanical source: *Elettaria cardamomum*
INCI Name: Elettaria Cardamomum Seed Oil

1.2 Recommended use of the chemical and restrictions on use:
Aromatherapy, natural perfumery, as recommended. Do not ingest.

1.3 Supplier's details: BIORUŽA s.r.o.
Company address: Laborecká 1, 01001 Žilina
Slovakia
Company contact:
00421 905 864 140
info@bioruza.sk
www.bioruza.sk

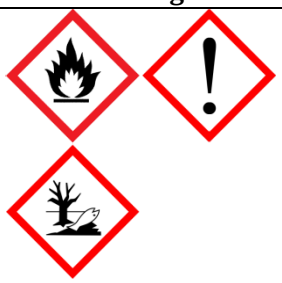
1.4 Emergency telephone number:
National Toxicology Information Center: Phone: 02/54774166

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
Flammable Liquids, Category 3
Skin Corrosion/Irritation,
Category 2Skin Sensitization,
Category 1
Serious eye damage/eye irritation, Category 2

Hazardous to aquatic environment Long term/Chronic, Category 2

2.2 GHS label elements, including precautionary statements

Signal Word	Hazardous Statement	Precautionary Statement	Hazard Pictograms
Warning	H226 – Flammable liquid andvapour H315 – Causes skin irritation H317 – May cause an allergic skin reaction H319 – Causes serious eyeirritation H411 – Toxic to aquatic life with long-lasting effects	P102 - Keep out of the reach of children. P210 – Keep away from flames and hot surfaces. Nosmoking. P233 – Keep container tightly closed. P240 – Ground/Bond container and receiving equipment. P241 – Use explosion-proof electrical/ventilating/lightingequipment. P242 – Use only non-sparking tools. P243 – Take precautionary measures against staticdischarge. P280 – Wear protective gloves/eye protection/face protection.	
		P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin withwater/shower. P370 + P378 – In case of fire: Use dry sand, dry chemical, oralcohol-resistant foam for extinction. P403 + P235 – Store in well-ventilated place. Keep cool. P501 – Dispose of contents/container to an approved wastedisposal plant. P264 –Wash hands thoroughly after handling. P280 – Wear protective gloves/protective clothing/eyeprotection/face protection. P302 + P352 – IF ON SKIN: Wash with plenty of water/soap.P362 + P364 – Take off contaminated clothing and wash it before reuse. P261 –Avoid breathing dust/fume/gas/mist/vapours/spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P333 + P313 –If skin irritation or rash occurs: Get medicaladvice/attention. P305 + P351 + P338 – IF IN EYES: Rinse cautiously with waterfor several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 – If eye irritation persists: Get medicaladvice/attention. P273 – Avoid release to the environment. P391 – Collect spillage.	

2.3 Other hazards that do not result in classification

May cause skin irritation/allergy. Patch test recommended.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Composition

Chemical Name (common name)	CAS#	CAS# EINECS	ICSC #	RTECS #	UN#	EINECS#	% by weight

Cardamom Oil	8000-66-6	85940-32-5	N/A	N/A	1197	288-922-1	100%
EU Allergens:							
Citral (Geranial + Neral)	5392-40-5	N/A	N/A	N/A	N/A	N/A	≤1.21 %
Farnesol	4602-84-0	N/A	N/A	N/A	N/A	N/A	≤0.08 %
Geraniol	106-24-1	N/A	N/A	N/A	N/A	N/A	≤0.71 %
Limonene	138-86-3	N/A	N/A	N/A	N/A	N/A	≤2.45 %
Linalool	78-70-6	N/A	N/A	N/A	N/A	N/A	≤4.17 %
Prop 65:							
Myrcene	123-35-3	N/A	N/A	N/A	N/A	N/A	≤5.0 %

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary first-aid measures (of Substance)Eye contact:

Check for and remove any contact lenses. Flush with water for 15 minutes. If symptoms persist get medical attention.

Skin Contact:

No harmful effect with normal skin. If skin irritation does occur, wash with water and soap and rinse thoroughly. If skin irritation continues, consulta doctor.

Inhalation:

Not likely to occur under normal conditions of use. If symptoms occur, move to fresh air and obtain medical advice.

Ingestion:

Not an expected route of exposure. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with milk orwater and consult a doctor. Keep the exposed person at rest. Do NOT force vomiting unless directed to do so by medical personnel. Seek
immediate medical attention and show the Substance's label to medical personnel.

4.2 Most important symptoms and effects, both acute and delayed (of Substance)

Eye contact:

May cause eye irritation and corneal damage if not immediately rinsed out.

Skin Contact:

Repeated contact may cause allergic dermatitis.

Inhalation:

Breathing high concentrations of vapor may cause anesthetic effects.

Ingestion:

Not an expected route of exposure.

4.3 Indication of any immediate medical attention and special treatment needed (of Substance)

None known.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Flash point

58˚C

5.2 Extinguishing media

Suitable extinguishing media: sprayed water or water mist, alcohol-resistant foam, multipurpose ABC powder, BC powder, carbon dioxide (CO2)

Unsuitable extinguishing media: water jet (straight stream).

5.3 Specific hazards arising from the chemical

None known.

5.4 Special protective actions for firefighters

Use self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Stop leak if you can do so without risk. Consult safety measures listed under Sections 7 and 8.

For fire-fighters:

Fire-fighters will be equipped with suitable personal protective equipment (See Section 8). High temperature may increase the pressure inside thecontainer—cool the container by sprinkling water. Avoid breathing emitted vapors.

6.2 Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, or diatomaceous earth in drums for waste disposal. Avoid allowing product to reach sewage system or any waterways. Inform respective authorities in case of seepage into sewagesystem or waterways.

6.3 Methods and material for containment and cleaning up

Absorb spill with non-combustible matter (such as detergent--do not use solvents) and transfer to containers.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid unintentional contact with skin surfaces. Wear suitable protective clothing. Avoid inhalation. Ensure good ventilation or exhaust in workplace. Do not allow contact with eyes. Always wash hands after handling. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in closed glass containers, away from heat, light and other sources of ignition. Store in cool area.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters OSHA

TWA: None established
OSHA STEL: None established
ACGIH TWA: None established
ACGIH STEL: None established NOHSC
TWA: None established
NOHSC STEL: None established

8.2 Appropriate engineering controls

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform toapplicable electrical code.

8.3 Individual protection measuresPersonal protective equipment:

Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place awayfrom the work area. Never eat, drink, or smoke during use. Remove and wash contaminated clothing before re-using.

Eye/face protection:
Avoid contact with eyes. Use eye protectors (safety goggles in accordance with standard EN166) designed to protect against liquid splashes.
Hand protection:
Wear suitable protective gloves (resistant to chemical agents in accordance with standard EN374) in the event of prolonged or repeated skincontact.
Type of gloves recommended: Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR)) or PVA (Polyvinyl alcohol).
Body protection: Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that havebeen soiled must be washed.



SECTION 9: PHYSICAL CHEMICAL PROPERTIES

Physical state: Transparent liquid
Color: Colorless to pale yellow
Odor: Fresh, spicy, sweet woody undertones, exotic.
Miscibility in water:
Insoluble **Miscibility in alcohol:** Soluble
Miscibility in essential oil:
Soluble**Liposolubility:**
Soluble
pH: Not applicable
Boiling point/boiling range: Not specified
Flash Point: 58°C
Vapor pressure: Not specified **Evaporation rate:** Not specified
Density: Not specified
Water solubility: Insoluble
Self-ignition temperature: Not specified
Decomposition point/decomposition range: Not specified
Refractive index @ 20˚C:
1.445 – 1.483**Partition coefficient:** Not specified
Specific gravity @ 20˚C: 0.908 – 0.949

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Not reactive.

10.1 Chemical stability
This substance is stable under the recommended handling and storage conditions in Section 7.

10.2 Possibility of hazardous reactions
When exposed to high temperatures, the substance may release hazardous decomposition products, such as carbon monoxide, carbon dioxide,fumes, and nitrogen oxide.

10.4. Conditions to avoid
None known.

10.5 Incompatible materials
Alkali metals, ammonia, oxidizing agents, peroxides strong inorganic acids.

10.6 Hazardous decomposition products
The thermal decomposition may release/form carbon monoxide (CO) and carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Substan
ceAcute
toxicity:
LD50 oral – 5000 mg/kg (rat)
LD50 dermal > 5000 mg/kg (rabbit)
Skin corrosion/irritation:
May be irritating to skin.
Serious eye damage/irritation:
May be irritating to eyes. Prompt rinsing and removal of the substance will avoid damage.
Respiratory sensitization:
Breathing high concentrations of vapor may cause anesthetic effects.
Germ cell mutagenicity:
Not specified
Carcinogenicity:
IARH: No component of this product present at levels greater than or equal to 0.1% is identified asprobable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified asprobable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified asprobable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity:
Not specified
STOT-single exposure:
Not specified
STOT-related exposure:
Not specified
Aspiration hazard:
Not specified

11.2 Information on the likely routes of exposure
Skin/scalp contact.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics
None known. Irritation of the eye if exposed. Redness of the skin if irritated.

11.4 Delayed and immediate effects and also chronic effects from short-term and long-term exposure
Exposure to vapors from this solvent in excess of the stated occupational exposure limit may result in adverse health effects such as mucousmembrane and respiratory system irritation and adverse effects on kidney, liver, and central nervous system.
Repeated or prolonged contact with the substance may cause removal of natural oil from the skin, resulting in non-allergic contact dermatitisand absorption through the skin. Splashes in the eyes may cause irritation and reversible

damage.

11.6 Interactive effects
Not specified

11.7 Where specific chemical data are not available
Not specified

11.8 Substances
Not specified

11.9 Substances verses ingredient information
Not specified

11.10 Other Information
None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Info summery of Ecological information
Balance of data on substance as a whole, not determined.

12.2 Eco toxicological properties of specific substances
See each category below for specific substances

12.3 Toxicity
Acute fish toxicity:
LC50 / 96 HOUR – No data available
Toxicity to aquatic plants – No data available Toxicity to microorganisms – No data availableToxicity threshold – No data available

12.4 Persistence and degradability
Biodegradation is expected

12.5 Bio-accumulative potential
Bioaccumulation is unlikely

12.6 Mobility in soil
Unknown

12.7 Other adverse effect
Avoid exposure to marine environments and waterways

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Do not pour into drains or waterways. Observe all federal, state, and local environmental regulations. Member State-specific and Community- specific provisions must be considered. Considering the relevant known environmental and human health hazards of the materials, review and implement appropriate technical and procedural wastewater and waste disposal measures to prevent occupational exposure and environmentalrelease. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental release. This may include destructive techniques for waste and wastewater. In extreme situations, contact a licensed professional waste

disposalservice to dispose of this material.

Waste:
Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC. Do not pour intodrains or waterways. Waste management is carried out without endangering human health, without harming the environment, and in particular without risk to water, air, soil, plants, or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Soiled packaging:
Empty all containers completely. Keep label(s) on every container. Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number
UN 1197

14.2 UN Proper shipping name
Extracts, liquid

14.3 Transportation hazard classes



Class3

14.4 Packing group, if applicable
PG III

14.4.1 Marking requirements
Not required for retail packages

14.5 Environmental hazards



Environmentally hazardous material.

14.6 Special precautions for user
Not specified

14.7 Transport in bulk according to Annex II of MARPOL 73/78° and IBC Code
Not specified

14.8 Additional transport information
Not applicable

SECTION 15: REGULATORY INFORMATION

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

Country	Notification
Canada	Not regulated
EU	See EU Allergens in Section 3
Hong Kong	Not regulated

Singapore	Not regulated
USA	**California Prop. 65 Components** This product contains chemicals known to the State of California to cause cancer, birth defects, and/or reproductive harm. See Section 3 for details.

SECTION 16: OTHER INFORMATION

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