

Safety Data Sheet

CARDAMOM ESSENTIAL OIL

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2020/878)

Version:1
Version date:23/09/2021
Language:EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Trade name/designation : CARDAMOM ESSENTIAL OIL
EC No : 288-922-1
CAS No : 85940-32-5

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

Relevant identified uses : Multiple uses in the Flavour and Fragrance industries.

1.3. Details of the supplier of the safety data sheet

Supplier : Name: Hermitage Oils srl
Street: Località Petrognano 14, 52100 Arezzo (AR)
Country: Italy
Telephone: +39 (0) 575 362831
E-mail: info@hermitageoils.com

1.4. Emergency Telephone Number

Italy: Bergamo: +39 (0) 800 883 300, Florence: +39 (0) 55 794 7819, Foggia: +39 (0) 881 732 326, Genoa: +39 (0) 10 563 62 45, Milan: + 39 (0) 02 6610 1029, Padua: +39 (0) 49 827 50 78, Pavia: +39 (0) 38 224 444, Rome: +39 (0) 06 305 43 43, Turin: +39 (0) 011 663 7637

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

Hazards identification

Classification	Hazard statements (H)
Flam. Liq. 3	H226 Flammable liquid and vapour.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2	H315 Causes skin irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Eye Irrit. 2	H319 Causes serious eye irritation
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling

Hazard pictograms



Signal word

Danger

Product identifiers

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Hazard Statements	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 H411 - Toxic to aquatic life with long lasting effects.
Supplemental Hazard information (EU)	-
Precautionary Statements - General	-
Precautionary Statements - Prevention	P262 - Do not get in eyes, on skin, or on clothing. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P281 - Use personal protective equipment as required.
Precautionary Statements - Response	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/... P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 - Do NOT induce vomiting. P391 - Collect spillage.
Precautionary Statements - Storage	-
Precautionary Statements - Disposal	-

2.3. Other hazards

Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Substance	C (%)	Classification	Specific concentration limits	Note
Cardamom, Elettaria cardamomum miniscula, ext. CAS N°:96507-91-4 EC N°:306-171-0 IDX N°:	C≤ 100.0%	-	-	-

3.3. Remark

Text phrases and H- EUH-: see section 16.
Natural product

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information	:	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Do not leave affected person unattended. Keep affected person warm, still and covered.
Following inhalation	:	Remove person to fresh air and keep comfortable for breathing. No resuscitation mouth-to-mouth or mouth-to-nose. Ambu use a mask or respirator. If breathing is irregular or stopped, administer artificial respiration.
Following skin contact	:	After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Change contaminated, saturated clothing. In case of skin irritation, consult a physician.

Following eye contact	:	In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing.
Following ingestion	:	Never give anything by mouth to an unconscious person or a person with cramps. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Self-protection of the first aider	:	First aider: Pay attention to self-protection!.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

Notes for the doctor	:	Treat symptomatically.
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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	:	Foam, CO ₂ , Dry Powder.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

- Carbon monoxide, Carbon dioxide, Smoke.

5.3. Advice for firefighters

- Do not use water as extinguishing media. No special firefighting equipment needed.

5.4. Additional information

Not available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Use personal protection equipment.
- Remove persons to safety.
- Provide adequate ventilation.
- Use appropriate respiratory protection.

6.2. Environmental precautions

- Ensure that waste is collected and contained.
- In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- Avoid release to the environment.
- Cover drains.
- Ensure all waste water is collected and treated via a waste water treatment plant.
- Do not allow to enter into soil/subsoil.
- Do not allow to enter into surface water or drains.
- Retain contaminated washing water and dispose it.
- Contain leaks or spills within cabinets with removable trays.

6.3. Methods and material for containment and cleaning up

- Treat the recovered material as prescribed in the section on waste disposal.
- Collect in closed and suitable containers for disposal.
- Clean contaminated objects and areas thoroughly observing environmental regulations.

- Collect spillage.
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Wipe up with absorbent material (eg. cloth, fleece).

6.4. Reference to other sections

- Safe handling: see section 7.
- Disposal: see section 13.
- Personal protection equipment: see section 8.

6.5. Additional information

Not available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

PROTECTIVE MEASURES

- Avoid contact with skin, eyes and clothes.
- If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.
- Provide adequate ventilation as well as local exhaust at critical locations.
- Wear personal protective clothing (see section 8).
- Sewers and ducts must be protected against the entry of the product.
- Provide for retaining containers, eg. floor pan without outflow.
- Avoid breathing gas/fumes/vapour/spray.

Advices on general occupational hygiene

- Wash hands before breaks and after work.
- Remove contaminated, saturated clothing immediately.
- Work in well ventilated zones or use proper respiratory protection.
- Wash contaminated clothing before reuse.
- Street clothing should be stored separately from work clothing.

7.2. Conditions for safe storage, including any incompatibilities

- Keep container tightly closed in a dry, cool, and well-ventilated place.
- Keep container in upright position in order to prevent leakage.

Requirements for storage rooms and vessels

- Ensure adequate ventilation of the storage area.
- Ground/bond container and receiving equipment.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Store locked up.
- Use isolated drainage to prevent discharge to soil.

Advice on joint storage

- Keep away from food, drink and animal feedingstuffs.
- Keep away from clothing and other combustible materials.
- Keep only in the original container in a cool, well-ventilated place, away from highly flammable substances.

Further information on storage conditions

- Use explosion-proof electrical/ventilating/lighting/.../equipment.
- Use only non-sparking tools.

7.3. Specific end uses

- Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.
Not available

8.2. Exposure controls

Appropriate engineering controls

Use suitable handling equipment.

Personal protection equipment



Eye/face protection	:	Suitable eye protection: Wear safety goggles.
Skin protection	:	Hand protection: Wear gloves. Body protection: Wear suitable protective clothing.
Respiratory protection	:	Suitable respiratory protection apparatus: Use only in well ventilated areas. Use protection in poor ventilation.

8.3. Additional information

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Not available
Odour:	Characteristic Of Cardamon.
Odour threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	59°C
Evaporation rate:	Not available
Flammability:	Flammable
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Solubility(ies):	Not available
Partition coefficient: n-octanol/water (Log KOC):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

9.2. Other safety information

State: Clear mobile liquid.

Refractive Index at 20°C: 0.920 – 0.940.

Solubility in Water: Insoluble.

Solubility in Oil: Soluble.

Solubility in Ethanol: Soluble.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Will react with oxidising agents.

10.2. Chemical stability

Stable under proper storage conditions.

10.3. Possibility of hazardous reactions

Not if stored correctly.

10.4. Conditions to avoid

Do not leave containers open to the air.

Avoid storage at elevated temperatures and sources of ignition.

10.5. Incompatible materials

Oxidising agents.

10.6. Hazardous decomposition products

On combustion may produce smoke, carbon monoxide and carbon dioxide.

10.7. Additional information

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Acute oral toxicity

Data for mixture

The product is not classified.

Substances

Not available

11.2. Acute skin toxicity

Data for mixture

The product is not classified.

Substances

Not available

11.3. Acute inhalation toxicity

Data for mixture

The product is not classified.

Substances

Not available

11.4. Skin corrosion

Data for mixture

Causes skin irritation.

Substances

Not available

11.5. Eye damage

Data for mixture

May cause eye irritation.

Substances

Not available

11.6. Skin sensitisation

Data for mixture

May cause an allergic skin reaction.

Substances

Not available

11.7. STOT SE

Data for mixture

The product is not classified.

Substances

Not available

11.8. STOT RE

Data for mixture

The product is not classified.

Substances

Not available

11.9. Carcinogenicity

Data for mixture

The product is not classified.

Substances

Not available

11.10. Reproductive and Developmental Toxicity

Data for mixture

The product is not classified.

Substances

Not available

11.11. In vitro genotoxicity

Data for mixture

The product is not classified.

Substances

Not available

11.12. Respiratory sensitisation

Data for mixture

The product is not classified.

Substances

Not available

11.13. Additional information

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

12.7. Additional ecotoxicological information

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

- The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.





Waste treatment options

- Waste requiring special supervision.
- Dispose of waste according to applicable legislation.
- Delivery to an approved waste disposal company.
- Non-contaminated packages must be recycled or disposed of.
- Contaminated packing must be completely emptied and can be reused after proper cleaning.
- Packing which cannot be properly cleaned must be disposed of.
- Handle contaminated packages in the same way as the substance itself.
- Dispose of waste according to applicable legislation.

Remark

- For recycling, contact manufacturer.
- Collect the waste separately.
- Consult the appropriate authorities about waste disposal.
- Do not mix with other wastes.
- The waste is to be kept separate from other types of waste until its disposal.
- Concerning the waste it has to be checked, whether a transport authorisation is required.

SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI/IATA-DGR)
14.1. UN number	1169	1169	1169	1169
14.2. UN proper shipping name	LIQUID AROMATIC EXTRACTS	LIQUID AROMATIC EXTRACTS	LIQUID AROMATIC EXTRACTS	LIQUID AROMATIC EXTRACTS
14.3. Transport hazard class(es)				
Class or Division	3	3	3	3
Hazard label(s)				
14.4. Packing group	III	III	III	III

14.5. Environmental hazards

Not available

14.6. Special precautions for user

Not available

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

Not available

14.8. Additional information

Not available

SECTION 15: REGULATORY INFORMATION

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

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.

This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

Not available

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

For this substance/mixture a chemical safety assessment has been elaborated.

For this mixture, the relevant data of the Substances' Chemical safety assessment are integrated in the sections of the SDS.

15.3. Additional information

Not available

SECTION 16: OTHER INFORMATION

Creation date: 23/09/2021

Version date: 23/09/2021

Printing date: 11/10/2021

16.1. Indication of changes

Not applicable (first edition of the MSDS).

16.2. Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

16.3. Key literature references and sources for data

No data available.

16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

H226	Flam. Liq. 3	Flammable liquid and vapour.
H304	Asp. Tox. 1	May be fatal if swallowed and enters airways.
H315	Skin Irrit. 2	Causes skin irritation.
H317	Skin Sens. 1	May cause an allergic skin reaction.
H319	Eye Irrit. 2	Causes serious eye irritation
H411	Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.

16.6. Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

16.7. Additional information

Not available

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.