



According to 1907/2006/EC, Article 31, Latest Amendment

Version number: 12.0 (replaces version: 11.0)

Revision: 06.05.2024 Printing date: 10.06.2024

SECTION 01: Identification of the substance/mixture and of the company/undertaking

- 1. Product identifier
- Trade name:
- CARDAMOME HE
- CAS Number: 8000-66-6
- EC number: 288-922-1
- 2. Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation Aromatic ingredient(s). Industrial use only.
- Uses advised against not applicable
- 3. Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
 ROBERTET 37 avenue Sidi-Brahim
 BP 52100 F-06131 GRASSE CEDEX
 Tel: +33 (0)4 93 40 33 66 (during normal opening times 8h-18h)
 Fax: +33 (0)4 93 70 68 09
 legis@robertet.com
- 4. Emergency telephone number:

ORFILA (INRS): + 33 (0)1 45 42 59 59 Poison Control and Toxicovigilance Centers ANGERS: 02 41 48 21 21 BORDEAUX: 05 56 96 40 80 LILLE: 0800 59 59 59 LYON: 04 72 11 69 11 MARSEILLE: 04 91 75 25 25 NANCY: 03 83 22 50 50 PARIS: 01 40 05 48 48 STRASBOURG: 03 88 37 37 37, TOULOUSE: 05 61 77 74 47

SECTION 02: Hazards identification

- 1. Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation. Eye Irrit. 2 - H319 Causes serious eye irritation. Skin Sens. 1 - H317 May cause an allergic skin reaction.



GHS09

Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting

Additional information:

Full text of H statements: see section 16

- 2. Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms







GHS02

GHS07

GHS09

- Signal word

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Warning

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- Hazard-determining components of labelling:

Eucalyptol / Linalool / Linalyl acetate / d-limonene ((R)-p-mentha-1, 8-diène) / 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene / Geraniol

- Hazard statements

H226 Flammable liquid and vapour.

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.

- Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

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

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

- 3. Other hazards
- Results of PBT and vPvB assessment
- PBT:

Not applicable.

vPvB:

Not applicable.

· Determination of endocrine-disrupting properties

None of the ingredients is listed.

SECTION 03: Composition/information on ingredients

· Chemical characterization

• CAS Number:

8000-66-6

• EINECS Number:

288-922-1

• Dangerous components:

CAS Number		%
470-82-6	Eucalyptol	30,00- 40,00
	EC number: 207-431-5	
	Flam. Liq. 3 - H226; Skin Sens.	
	1B - H317	
78-70-6	Linalool	5,00- 10,00
	EC number: 201-134-4	
	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319, Skin Sens. 1B - H317	
115-95-7	Linalyl acetate	5,00- 10,00
	FC number: 204-116-4	

EC number: 204-116-4
Skin Irrit. 2 - H315, Eye Irrit. 2 -

H319, Skin Sens. 1B - H317

5989-27-5 d-limonene ((R)-p-mentha-1,8-diène) 1,00- 5,00

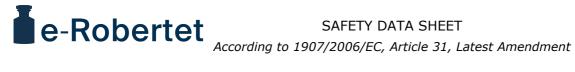
EC number: 227-813-5

Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Acute 1 -H400 (M=1); Aquatic Chronic 3 - H412

8000-41-7 Terpineol 1,00- 5,00

EC number: 232-268-1

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	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319	
123-35-3	Myrcene	1,00- 5,00
	EC number: 204-622-5	
	Asp. Tox. 1 - H304; Flam. Liq. 3	
	- H226; Skin Irrit. 2 - H315, Eye	
	Irrit. 2 - H319; Aquatic Acute 1 -	
	H400 (M=1), Aquatic Chronic 2 - H411	
80-56-8	2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	1,00- 5,00
00-30-0	EC number: 201-291-9	1,00- 3,00
	Asp. Tox. 1 - H304; Flam. Liq. 3	
	- H226; Acute Tox. 4 - H302, Skin	
	Irrit. 2 - H315, Skin Sens. 1B - H317;	
	Aquatic Acute 1 - H400 (M=1), Aquatic	
	Chronic 1 - H410 (M=1)	
400.04.1	Oral: ATE = 500 mg/kg	/ AA = A-
106-24-1	Geraniol	1,00- 5,00
	EC number: 203-377-1	
	Eye Dam. 1 - H318; Skin Irrit. 2	
405.07.5	- H315, Skin Sens. 1 - H317	/ AA = A
105-87-3	Geranyl acetate	1,00- 5,00
	EC number: 203-341-5	
	Skin Irrit. 2 - H315, Skin Sens. 1B -	
5202 40 F	H317; Aquatic Chronic 3 - H412	4.00 5.00
5392-40-5	Citral	1,00- 5,00
	EC number: 226-394-6 Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	•	
562-74-3	H319, Skin Sens. 1 - H317	1.00 5.00
362-74-3	4-Terpinenol EC number: 209-235-5	1,00- 5,00
	Acute Tox. 3 - H331; Acute Tox.	
	4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317, STOT SE 3 -	
	H336	
	Oral: ATE = 1300 mg/kg; Inhalative: ATE = 3	
	mg/l	
40716-66-3	Nerolidol (trans)	0,10- 1,00
	EC number: 255-053-4	, ,
	Eye Irrit. 2 - H319, Skin Sens. 1B -	
	H317; Aquatic Acute 1 - H400 (M=1),	
	Aquatic Chronic 1 - H410 (M=1)	
127-91-3	6,6-Dimethyl-2-methylenebicyclo[3.1.	0,10- 1,00
-	1]heptane	-, - ,
	EC number: 204-872-5	
	Asp. Tox. 1 - H304; Flam. Liq. 3	
	- H226; Skin Irrit. 2 - H315, Skin	
	Sens. 1B - H317; Aquatic Acute 1 -	
	H400 (M=1), Aquatic Chronic 1 - H410 (M=1)	
99-85-4	gamma-Terpinene	0,10- 1,00
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PRODUCT:	CARDAMOME HE	
	EC number: 202-794-6 Repr. 2 Flam. Liq. 3 - H226; Repr. 2 - H361; Aquatic Chronic 2 - H411	(continued of page 3)
586-62-9	Terpinolene EC number: 209-578-0 Asp. Tox. 1 - H304; Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317; Aquatic Chronic 2 - H411	0,10- 1,00
99-86-5	alpha-Terpinene EC number: 202-795-1 Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Acute Tox. 4 - H302, Eye Irrit. 2 - H319, Skin Sens. 1 - H317; Aquatic Chronic 2 - H411	0,10- 1,00
4602-84-0	Farnesol EC number: 225-004-1 Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Acute 1 - H400 (M=1), Aquatic Chronic 1 - H410 (M=1)	0,10- 1,00
99-87-6	p-Cymene EC number: 202-796-7 Repr. 2 Acute Tox. 3 - H331; Repr. 2 - H361f, Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Aquatic Chronic 2 - H411 Inhalative: ATE = 3 mg/l	0,10- 1,00

SECTION 04: First aid measures

- 1. Description of first aid measures
- General information:

Seek immediate medical advice.

- After inhalation:
 - Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- After eye contact:
 - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:

If symptoms persist consult doctor.

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- 3. Indication of any immediate medical attention and special treatment needed No further relevant information available.

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SECTION 05: Firefighting measures

- 1. Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents:
 Non applicable
- Special hazards arising from the substance or mixture No further relevant information available.
- 3. Advice for firefighters No specific advice

SECTION 06: Accidental release measures

- 1. Personal precautions, protective equipment and emergency procedures
- · For non-emergency personnel
 - Wear protective equipment. Keep unprotected persons away.
- For emergency responders

Wear protective equipment. Keep unprotected persons away.

2. Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

3. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

4. Reference to other sections

See Section 13 for disposal information.

SECTION 07: Handling and storage

- 1. Precautions for safe handling
- Avoid contact with skin and eyes Wear appropriate protective equipments (gloves, glasses ...)
- Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

- 2. Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

Avoid exposure to extreme temperatures. Avoid prolonged contact with certain plastic materials (PVC..)

- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Protect from heat and direct sunlight.

3. Specific end use(s)

No further relevant information available.

SECTION 08: Exposure controls/personal protection

- 1. Control parameters
- Ingredients with limit values that require monitoring at the workplace:

 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Ingredients with biological limit values: No further relevant information available.
- 2. Exposure controls

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• Appropriate engineering controls

- Appropriate engineering controls
 No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Avoid contact with the eyes and skin.Eye/face protection
- Safety glasses
- Skin protection
- Protection of hands:
 - Only use chemical-protective gloves with CE-labelling of category III.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves
- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Respiratory protection:
 - Not required.
- · Thermal hazards
 - No further relevant information available.
- Environmental exposure controls
 No further relevant information available.

SECTION 09: Physical and chemical properties

Information on basic physical and chemical properties

General Information

Physical state Fluid
Form: Fluid
Odour: Characteristic
Odour threshold: Characteristic
Melting point/freezing point: Undetermined.
Boiling point or initial boiling point and > 35 °C

boiling point of iiii

boiling range

Flammability

Not applicable.

Lower and upper explosion limit

Lower:Not determined.Upper:Not determined.

Flash point: 59 °C

Auto-ignition temperature: Not determined.

Ignition temperature: Undetermined.

Decomposition temperature: Not determined.

pH Not determined.

Viscosity:

Kinematic viscosity

Dynamic:

Not determined.

Not determined.

Solubility

water: Not determined.

Partition coefficient n-octanol/water (log Not determined.

value)

Vapour pressure: Not determined.

Density and/or relative density

Density: Not determined.

Relative density 0,9190 - 0,9360 (20°C)

Vapour densityNot determined.Particle characteristicsNot determined.

Other information No further relevant information available.

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Surface tension: Not determined.

Explosive properties: Not determined.

Information with regard to physical hazard classes

Explosivesnot applicableFlammable gasesnot applicableAerosolsnot applicableOxidising gasesnot applicableGases under pressurenot applicable

Flammable liquids Flammable liquid and vapour.

Flammable solids

Self-reactive substances and mixtures

Pyrophoric liquids

Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures, which emit

not applicable

not applicable

flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Orgonic peroxides
Corrosive to metals
Desensitised explosives
Other safety characteristics
Evaporation rate

not applicable
not applicable
not applicable
Not determined.

SECTION 10: Stability and reactivity

1. Reactivity

No further relevant information available.

2. Chemical stability

Good stability at conditions of use mentionned in point 7 and 10

- 3. Possibility of hazardous reactions Reacts with strong oxidising agents.
- 4. Conditions to avoid

Avoid temperatures near the flash point (see Section 9). Avoid contact with oxidizing agents.

5. Incompatible materials:

No further relevant information available.

6. Hazardous decomposition products:

No dangerous decomposition products known.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CARDAMOME HE

Oral, LD50: 19403,16 mg/kg Inhalative, LC50/4h: 157,89 mg/l

 Skin corrosion / irritation Causes skin irritation.

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• Serious eye damage / irritation Causes serious eye irritation.

• Respiratory / skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity
 Based on available data, the classification criteria are not met.

Carcinogenicity
 Based on available data, the classification criteria are not met.

Reproductive toxicity
 Based on available data, the classification criteria are not met.

• STOT single exposure Based on available data, the classification criteria are not met.

• STOT repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
 Based on available data, the classification criteria are not met.

- 2. Information on other hazards
- Endocrine disrupting properties None of the ingredients is listed.
- Other information
 No further relevant information available.

SECTION 12: Ecological information

- 1. Toxicity
- Aquatic toxicity:
 Based on available data, the classification criteria are not met.
- Persistence and degradability Toxic to aquatic life with long lasting effects.
- 3. Bioaccumulative potential Not available
- 4. Mobility in soil Not available
- 5. Results of PBT and vPvB assessment
- PBT:
- Not applicable.
- vPvB:

Not applicable.

- Endocrine disrupting properties
 The product does not contain substances with endocrine disrupting properties.
- 7. Other adverse effects
 No further relevant information available.

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SECTION 13: Disposal considerations

- 1. Waste treatment methods
- Recommendation

Must be specially treated adhering to official regulations.

- · Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

1. UN number or ID number

. ADR UN1197 . IMDG UN1197 . IATA UN1197

2. UN proper shipping name

. ADR 1197 EXTRACTS, LIQUID

. IMDG EXTRACTS, LIQUID (DIPENTENE MIXTURE)

.IATA EXTRACTS, LIQUID

3. Transport hazard class(es)

. ADR

. Class 3 (F1) Flammable liquids.

. Label





.IMDG

. Class 3 Flammable liquids.

. Label





. IATA

. Class 3 Flammable liquids.

. Label



4. Packing group

. ADR III . IMDG III . IATA III

5. Environmental hazards:

. Marine pollutant: Yes
. Danger code (Kemler): 30

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. EMS Number: F-E,S-D

6. Special precautions for user Warning: Flammable liquids.

Maritime transport in bulk according to IMO instruments Not applicable.

• Transport/Additional information:

. ADR

 . Excepted quantities (EQ):
 E1

 . Limited quantities (LQ)
 5L

 . Transport category
 3

 . Tunnel restriction code
 D/E

. IMDG

. Limited quantities (LQ) 5L . Excepted quantities (EQ) E1

• UN "Model Regulation":

UN 1197 EXTRACTS, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- 1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- REGULATION (EC) No 1907/2006 ANNEX XVII

 Conditions of roctriction 2

Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II None of the ingredients is listed.
- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

• Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors None of the ingredients is listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors None of the ingredients is listed.
- · National regulations:
- · Waterhazard class:

Water hazard class 3 (Self-assessment): extremely hazardous for water.

2. Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H336 May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

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H361





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H361f Suspected of damaging fertility.
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.

2. Department issuing MSDS:

Legislation / Regulatory Affair Department

3. Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

4. Sources

RIFM Database Suppliers Information REACH registration dossier IFRA/IOFI Labelling Manual

• Date of previous version:

04.05.2024

• Version number of previous version:

11.0

* Data compared to the previous version altered.