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## SAFETY DATA SHEET

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

Version number: 4.0 (replaces version: 3.0)

Revision: 29.03.2023 Printing date: 03.05.2023

# <u>SECTION 01: Identifi</u>cation of the substance/mixture and of the company/undertaking

- 1. Product identifier
- Trade name:
- CARDAMOME NHS 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



GHS05

Eye Dam. 1 - H318 Causes serious eye damage.



GHS08

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.



GHS07

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



GHS09

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

• Additional information:

Full text of H statements: see section 16

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

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GHS05 GHS08 GHS07 GH

- Signal word Danger
- Hazard-determining components of labelling: Eucalyptol / Linalool / d-limonene ((R)-p-mentha-1,8-diène) / Geraniol / Linalyl acetate / Nerolidol (trans)
- Hazard statements

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.

H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P331 Do NOT induce vomiting.

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:

• Dangerous	components:	
CAS Number		%
470-82-6	Eucalyptol	20,00- 30,00
	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	
5989-27-5	d-limonene ((R)-p-mentha-1,8-diène)	5,00- 10,00
	EC number: 227-813-5	
	A T 4 11004 FL 11 0	

Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Acute 1 -

H400; Aquatic Chronic 3 - H412

**106-24-1 Geraniol 5,00- 10,00** (continued on page 3)





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		(continued of page 2
	EC number: 203-377-1	(continued of page 2)
	Eye Dam. 1 - H318; Skin Irrit. 2	
	- H315, Skin Sens. 1 - H317	
8000-41-7	Terpineol	1,00- 5,00
	EC number: 232-268-1	
	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319	
115-95-7	Linalyl acetate	1,00- 5,00
	EC number: 204-116-4	
	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319, Skin Sens. 1B - H317	
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, Aquatic Chronic 2 - H411	
562-74-3	4-Terpinenol	1,00- 5,00
	EC number: 209-235-5	
	Acute Tox. 4 - H302, Acute Tox. 4 -	
	H332, Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319, STOT SE 3 - H336	
40716-66-3	Nerolidol (trans)	1,00- 5,00
	EC number: 255-053-4	
	Eye Irrit. 2 - H319, Skin Sens. 1B -	
	H317; Aquatic Acute 1 - H400, Aquatic	
	Chronic 1 - H410	
105-87-3	Geranyl acetate	1,00- 5,00
	EC number: 203-341-5	
	Skin Irrit. 2 - H315, Skin Sens. 1B -	
00 50 0	H317; Aquatic Chronic 3 - H412	4.00 5.00
80-56-8	<b>2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene</b> EC number: 201-291-9	1,00- 5,00
	Asp. Tox. 1 - H304; Flam. Liq. 3	
	- H226; Acute Tox. 4 - H302, Skin	
	Irrit. 2 - H315, Skin Sens. 1B - H317;	
	Aquatic Acute 1 - H400, Aquatic Chronic 1 -	
E202 40 E	H410	1.00 5.00
5392-40-5	Citral EC number: 226-394-6	1,00- 5,00
	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	•	
127-91-3	H319, Skin Sens. 1 - H317 6,6-Dimethyl-2-methylenebicyclo[3.1.	1,00- 5,00
127-91-3	1]heptane	1,00-3,00
	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, Aquatic Chronic 1 - H410	(continued on page 4



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		(continued of page 3)
99-85-4	gamma-Terpinene	0,10- 1,00
	EC number: 202-794-6	
	Repr. 2	
	Flam. Liq. 3 - H226; Repr. 2 -	
	H361; Aquatic Chronic 2 - H411	
99-87-6	p-Cymene	0,10- 1,00
	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	
4602-84-0	Farnesol	0,10- 1,00
	EC number: 225-004-1	
	Skin Irrit. 2 - H315, Skin Sens. 1B -	
	H317; Aquatic Acute 1 - H400, Aquatic	
	Chronic 1 - H410	
586-62-9	Terpinolene	0,10- 1,00
	EC number: 209-578-0	
	Asp. Tox. 1 - H304; Skin Irrit.	
	2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B	

# 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. Then consult a doctor.
- After swallowing:
  - If symptoms persist consult doctor.
- 2. 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.

# 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:
- 2. Special hazards arising from the substance or mixture No further relevant information available.
- 3. Advice for firefighters No specific advice





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# 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:
- Further information about storage conditions:

None.

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
- · 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:

(continued on page 6)



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Use suitable respiratory protective device in case of insufficient ventilation.

- Thermal hazards
  - No further relevant information available.
- Environmental exposure controls No further relevant information available.

ECTION 09: Physical and chemical p Information on basic physical and chemical	·
information on basic physical and chemical General Information	properties
Physical state	Fluid
Form:	Fluid
Odour:	Characteristic
Odour threshold:	Characteristic
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	> 35 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	61 °C
Auto-ignition temperature:	Not determined.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	0,9150 - 0,9400 (20°C)
Vapour density	Not determined.
Particle characteristics	Not determined.
Other information	No further relevant information available.
Surface tension:	Not determined.
Explosive properties:	Not determined.
Information with regard to physical hazard c	classes
Explosives	not applicable
Flammable gases	not applicable
Aerosols	not applicable
Oxidising gases	not applicable
Gases under pressure	not applicable
Flammable liquids	not applicable
Flammable solids	not applicable
Self-reactive substances and mixtures	not applicable
Pyrophoric liquids	not applicable



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	(continued of page
Pyrophoric solids	not applicable
Self-heating substances and mixtures	not applicable
Substances and mixtures, which emit flammable gases in contact with water	not applicable
Oxidising liquids	not applicable
Oxidising solids	not applicable
Organic peroxides	not applicable
Corrosive to metals	not applicable
Desensitised explosives	not applicable
Other safety characteristics	Not determined.
Evaporation rate	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 NHS**

Inhalative, LC50/4h: 222,97 mg/l

Oral, LD50: 22034,20 mg/kg

- Skin corrosion / irritation Causes skin irritation.
- Serious eye damage / irritation Causes serious eye damage.
- 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

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

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- STOT repeated exposure
  - Based on available data, the classification criteria are not met.
- · Aspiration hazard

May be fatal if swallowed and enters airways.

- 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.

2. 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.
- 6. Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

7. Other adverse effects

No further relevant information available.

# 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
 UN3082

 . IMDG
 UN3082

 . IATA
 UN3082

2. UN proper shipping name

. ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EXTRACTS, LIQUID)

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. IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(EXTRACTS, FLAVOURING, LIQUID)

. IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(EXTRACTS, LIQUID)

3. Transport hazard class(es)

. ADR

. Class 9 (M6) Miscellaneous dangerous substances and articles.

. Label





. IMDG

. Class 9 Miscellaneous dangerous substances and articles.

. Label





. IATA

. Class 9 Miscellaneous dangerous substances and articles.

. Label





4. Packing group

. ADR III
.IMDG III

5. Environmental hazards:

. Marine pollutant: Yes

6. Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

. Danger code (Kemler): 90 . EMS Number: F-A,S-F

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

. IMDG

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

• UN "Model Regulation":

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UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EXTRACTS, LIQUID), 9, III

# 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 restriction: 3, 40
- 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.

## 1. Relevant phrases

Relevant pinases		
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.	
H332	Harmful if inhaled.	
H336	May cause drowsiness or dizziness.	
H361	Suspected of damaging fertility or the unborn child.	
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)

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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

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

- Date of previous version: 02.03.2023
  - 02.03.20
- Version number of previous version:

3.0

\* Data compared to the previous version altered.