

Material Safety Data Sheet

Produit : **CARDAMOM GUATEMALA OIL EXTRA**

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

- 1.1 Product identification: CARDAMOM GUATEMALA OIL EXTRA
- 1.2 Relevant identified uses: Aromatic ingredient - for manufacturing use only, not for direct consumption as such

2 - HAZARDS IDENTIFICATION

2.1 Classification:

According to regulation EC1272/2008		According to Dir 67/548/CEE or 1999/45/CE	
Flam. Liq. 3	H226	Xn	
Asp. Tox. 1	H304	N	
Skin Irrit. 2	H315	R38	Irritating to skin
Skin Sens. 1	H317	R43	May cause sensitization by skin contact
Eye Irrit. 2A	H319	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Aquatic Chronic 2	H411	R65	Harmful : may cause lung damage if swallowed

Refer to the section 16 for the all hazard statements.

2.2 Label elements:

Produit : **CARDAMOM GUATEMALA OIL EXTRA****Danger**

- 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.

Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition source. - No smoking.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash hands thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.

Intervention

- P301+P310 IF SWALLOWED:Immediately call a POISON CENTER or doctor/physician.
 P302+P352 IF ON SKIN:Wash with plenty of soap and water.
 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.
 P370+P378 In case of fire:Use carbon dioxide, powder or foam for extinction.
 P391 Collect spillage.
 P332+P313 If skin irritation occurs:Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs:Get medical advice/attention.
 P337+P313 If eye irritation persists:Get medical advice/attention.
 P321 Specific treatment.
 P362 Take off contaminated clothing.
 P363 Wash contaminated clothing before reuse.

Storage

- P403+P235 Store in a well-ventilated place.Keep cool.
 P405 Store locked up.

Elimination

- P501 Dispose of contents/container to a collection of special or hazardous waste.

2.3 Other hazards:

Not applicable.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Produit : **CARDAMOM GUATEMALA OIL EXTRA**

3.1 Description: Obtained by steam distillation from cardamom fruit (*Elettaria cardamomum* (L.) Maton).

CAS : 8000-66-6 EINECS : 288-922-1

3.2 Hazardous components:

Terpineol, acetate (20 - 50%) - CAS : 80-26-2 EINECS : 232-357-5

Regulation EC 1272/2008 : Aquatic Chronic 2 : H411
Directive 67/548/CEE : R38 R51/53

Cineole (20 - 50%) - CAS : 470-82-6 EINECS : 207-431-5

Regulation EC 1272/2008 : Flam. Liq. 3 : H226 Skin Sens. 1B : H317
Directive 67/548/CEE : R10 R43

Linalool (5 - 10%) - CAS : 78-70-6 EINECS : 201-134-4

Regulation EC 1272/2008 : Eye Irrit. 2A : H319 Skin Irrit. 2 : H315
Directive 67/548/CEE : R38

Linalyl acetate (5 - 10%) - CAS : 115-95-7 EINECS : 204-116-4

Regulation EC 1272/2008 : Eye Irrit. 2A : H319 Skin Irrit. 2 : H315
Directive 67/548/CEE : R38

alpha-Terpinéol (5 - 10%) - CAS : 98-55-5 EINECS : 202-680-6

Regulation EC 1272/2008 : Eye Irrit. 2A : H319 Skin Irrit. 2 : H315
Directive 67/548/CEE : R36/38

(R)-p-mentha-1,8-diene (1 - 5%) - Index N° : 601-029-00-7 CAS : 5989-27-5 EINECS : 227-813-5

Regulation EC 1272/2008 : Aquatic Acute 1 : H400 Aquatic Chronic 1 : H410 Flam. Liq. 3 : H226 Skin Irrit. 2 : H315 Skin Sens. 1 : H317
Directive 67/548/CEE : R10 R38 R43 R50/53 R65

7-methyl-3-methylocta-1,6-diene (1 - 5%) - CAS : 123-35-3 EINECS : 204-622-5

Regulation EC 1272/2008 : Asp. Tox. 1 : H304 Eye Irrit. 2A : H319 Flam. Liq. 3 : H226 Skin Irrit. 2 : H315
Directive 67/548/CEE : R10 R38 R65

pin-2(3)-ene (1 - 5%) - CAS : 80-56-8 EINECS : 201-291-9

Regulation EC 1272/2008 : Asp. Tox. 1 : H304 Flam. Liq. 3 : H226 Skin Irrit. 2 : H315 Skin Sens. 1B : H317
Directive 67/548/CEE : R10 R38 R43 R65

Geraniol (1 - 5%) - CAS : 106-24-1 EINECS : 203-377-1

Regulation EC 1272/2008 : Eye Dam. 1 : H318 Skin Irrit. 2 : H315 Skin Sens. 1 : H317
Directive 67/548/CEE : R38 R41 R43

Citral (0.1 - 1%) - Index N° : 605-019-00-3 CAS : 5392-40-5 EINECS : 226-394-6

Regulation EC 1272/2008 : Skin Irrit. 2 : H315 Skin Sens. 1 : H317
Directive 67/548/CEE : R38 R43

Geranyl acetate (0.1 - 1%) - CAS : 105-87-3 EINECS : 203-341-5

Regulation EC 1272/2008 : Aquatic Chronic 3 : H412 Skin Irrit. 2 : H315 Skin Sens. 1 : H317
Directive 67/548/CEE : R38 R43 R51/53

nerolidol (0.1 - 1%) - CAS : 7212-44-4 EINECS : 230-597-5

Regulation EC 1272/2008 : Eye Irrit. 2A : H319 Aquatic Acute 1 : H400 Aquatic Chronic 1 : H410
Directive 67/548/CEE : R50/53

pin-2(10)-ene (0.1 - 1%) - CAS : 127-91-3 EINECS : 204-872-5

Regulation EC 1272/2008 : Asp. Tox. 1 : H304 Flam. Liq. 3 : H226 Skin Irrit. 2 : H315 Skin Sens. 1B : H317
Directive 67/548/CEE : R10 R38 R43 R65

Produit : **CARDAMOM GUATEMALA OIL EXTRA**

Farnesol (0.1 - 1%) - CAS : 4602-84-0 EINECS : 225-004-1

Regulation EC 1272/2008 : Eye Irrit. 2A : H319 Skin Irrit. 2 : H315 Skin Sens. 1B : H317

Directive 67/548/CEE : R36/38 R43

4 - FIRST-AID MEASURES

4.1 Description of first aid measures:

Skin contact : Remove any contaminated clothing or shoes. Wash affected areas thoroughly with soap and water for at least 15 minutes. Contact a physician if necessary.

Eye Contact : Flush immediatly with clean water for at least 10 minutes. Contact a physician if necessary.

Ingestion : Rinse the mouth. Contact a physician immediately.

Excessive inhalation : Remove to fresh air. If breathing has stopped, administer artificial respiration and oxygen if available. Contact a physician if necessary.

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

Take into account hazard and safety statements

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

None.

5 - FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Recommended : Carbondioxide, dry chemical or foam.

Not recommended : Direct water.

5.2 Special fire fighting procedures:

Cool down other threatened recipients with pulverized water.

Do not inhale fire fumes or gases (CO, CO₂, organic products).

5.3 Self-contained breathing apparatus and protective clothing should be worn when fires involved c

6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment:

Avoid contact with skin, eyes, clothes.

Provide adequate ventilation.

6.2 Environmental protection measures:

Prevent contamination of soil, ground and surface water.

6.3 Collecting measures:

Gross spillages should be contained by use of sand or inert powder and disposed off in accordance with local laws and regulations.

7 - HANDLING AND STORAGE

7.1 Handling:

Produit : **CARDAMOM GUATEMALA OIL EXTRA**

Keep away all ignition sources.
 Provide adequate ventilation.
 Do not eat, drink, smoke in the working areas.
 Wash hands after use.

7.2 Storage:

Store the product in a cool, dry and ventilated area away from heat sources, and protected from light in tightly closed original container. Keep air contact to a minimum.

Packing material :

-recommended : glass, stainless steel, aluminium.

-not recommended : naked iron.

7.3 Specific end uses:

Not applicable.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters:**

None.

8.2 Exposure control:

To avoid eye and mucous membrane projection and according to the working area organization wearing eye glasses and gloves is recommended .

Avoid excessive inhalation of concentrated vapors.

Do not re-use empty containers : Quickly get clear of sponges, wovens, ... etc, used to sponge the product. Keep away from food and drink.

Hygien and safety at work : adapted personal protective equipment is advised.

**9 - PHYSICAL AND CHEMICAL PROPERTIES****9.1 Basic informations:**

Aspect	Colourless to pale yellow liquid.
Odeur	Spicy, camphor like.
Vapour density (mmHg)	0,050
Flash Point (°C)(closed cup)	58
Specific Gravity (+20°C)	0.910 to 0.945

9.2 Other information:

Solubility : ethanol / oil / solvents.

10 - STABILITY AND REACTIVITY**10.1 Reactivity:**

Produit : **CARDAMOM GUATEMALA OIL EXTRA**

This product presents no significant reactivity hazard.

10.2 Chemical stability:

It is stable and will not react violently with water.

10.3 Hazardous reactions:

Hazardous reaction will not occur if using conditions and prescriptions are followed.

10.4 Conditions to avoid:

Avoid contact or contamination with strong acids, alkalis, or oxidizing agents.

10.5 Materials to avoid:

Not relevant.

10.6 Hazardous decomposition products:

No decomposition product if storage and handling conditions are followed.

11 - TOXICOLOGICAL INFORMATION

11.1 Acute toxicity:

No data available.

11.2 Irritation:

No data available.

11.3 Sensitization:

No data available.

11.4 Chronic exposure:

No data available.

11.5 Cancerogenicity:

No data available.

11.6 Mutagenicity:

No data available.

11.7 Reproduction toxicity:

No data available.

12 - ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available.

12.2 Persistence and degradability:

No data available.

12.3 Bioaccumulative potential:

No data available.

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12.4 Soil mobility:

No data available.

12.5 Results of PBT and vPvB assessment:

No data available.

12.6 Other adverse effects:

No data available.

Avoid contamination of soil, ground and surface water.

13 - DISPOSAL CONSIDERATIONS

Release to atmosphere : avoid.

Release to surface water : avoid.

Release into natural environment : avoid.

Destruction of waste : incineration.

Treatment of empty containers : re-use inadvisable.

Waste Disposal Methods : Place material and absorbent into sealed containers and dispose off in accordance with current applicable laws and regulations.

14 - TRANSPORT INFORMATION

14.1 N° UN: 1169 - Extracts, aromatic, liquid

14.2 Transport hazard class(es):

ADR 3, III D/E

IATA 3, III

IMDG 3, III

Dangerous for the environment / Marine Pollutant

15 - REGULATORY INFORMATION

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

15.2 Chemical safety assessment:

Not relevant.

16 - OTHER INFORMATION

Produit : **CARDAMOM GUATEMALA OIL EXTRA**

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Revisions are mentioned by a black stroke in left margin.

Acronyms:

REACH: Regulation, Evaluation, Authorization of CHemicals

CSR: Chemical Safety Report

IFRA: International Fragrance Association

IOFI: International Organization of the Flavor Industry

ATE: Acute Toxicity Estimation

ES: Exposure Scenario

▮ Bibliography, data sources: IFRA IOFI Labeling manual 2013

Hazardous classification for mixture and evaluation methods according Reg EC1272/2008:

Classification	Method
Causes serious eye irritation. H319	calculated
Causes skin irritation. H315	calculated
Toxic to aquatic life with long lasting effects. H411	calculated
May cause an allergic skin reaction. H317	calculated
Flammable liquid and vapour. H226	measured
May be fatal if swallowed and enters airways. H304	calculated

List of relevant phrases :

According to Reg EC1272/2008 :

H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H317	May cause an allergic skin reaction.

According to Dir 67/548/EC :

Produit : **CARDAMOM GUATEMALA OIL EXTRA**

R22	Harmful if swallowed
R36	Irritating to eyes
R38	Irritating to skin
R41	Risk of serious damage to eyes
R43	May cause sensitization by skin contact
R50	Very toxic to aquatic organisms
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R53	May cause long-term adverse effects in the aquatic environment
R65	Harmful : may cause lung damage if swallowed

This product is for an industrial use only and not personal use.