

## Material Safety Data Sheet

### Organic essential oil of Cardamom from Guatemala

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#### 1/ Identification of the substance and the company

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##### 1.1 Identification of the substance

Trade name : Cardamom  
Botanical name : *Elletaria cardamomum*  
INCI name : ELLETARIA CARDAMOMUM SEED OIL  
Geographical origin : Guatemala

N° CAS TSCA : 8000-66-6  
N° CAS EINECS : 85940-32-5  
N° EINECS : 288-922-1

N° FEMA : 2241  
N° FDA : 182.20  
N° CoE : 180n

##### 1.2 Use of the substance

Fragrance and flavour

##### 1.3 Identification of the company

Company name: IN-LUSTRYS  
Address : 294 Montée des Chênes - LaTuilière  
83136 NEOULES (France)  
Phone number : +33 (0)4 98 05 82 28  
Email : qualite@inlustrys.com

##### 1.4 Emergency telephone number

ORFILA Organism (poison control center): +33 (0)1 45 42 59 59  
Website : <http://www.centres-antipoison.net>

## 2.1 Classification of the substance

### Classification according to Regulation (EC) No 1272/2008

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

### Classification according to 67/548/EEC and 1999/45/EC

N: Dangerous for the environment  
Xi: Irritant

Risk statements:

R10: Flammable.  
R36/38: Irritating to eyes and skin.  
R43: May cause sensitization by skin contact.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety statements:

S24: Avoid contact with skin.  
S37: Wear suitable gloves.  
S61: Avoid release to the environment. Refer to special instructions / Safety Data Sheets.

## 2.2 Label elements

Signal word: Danger

Labelling:



GHS02: Flammable



GHS07: Acute toxicity, irritation, dermal sensitizer, narcotic effects



GHS09: Hazardous to aquatic environment

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:

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking  
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  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P501: Dispose of contents/container to ...

### 2.3 Other hazards

CMR components:

none

Allergens:

linalool ( $\leq 6\%$ ), d-limonene ( $\leq 4\%$ ), geraniol ( $\leq 2\%$ ), farnesol ( $\leq 0.5\%$ ), citral : neral+geraniol ( $\leq 0.5\%$ )

### 3/ Composition / information on ingredients

Hazardous components:

Constituent Name	Identification		Concentration %
	CAS #	EINECS #	
Alpha-Pinene	80-56-8	201-291-9	$\leq 3\%$
Alpha-Terpeneol	98-55-5	202-680-6	$\leq 5\%$
Cineol 1.8	470-82-6	207-431-5	$\leq 40\%$
D-Limonene	5989-27-5	227-813-5	$\leq 4\%$
Linalool	78-70-6	201-134-4	$\leq 6\%$
Linalyl acetate	115-95-7	204-116-4	$\leq 7\%$
Myrcene	123-35-3	204-622-5	$\leq 3\%$
Terpinyl acetate	8007-35-0	232-357-5	$\leq 45\%$

**Classification:**

Constituent name	Labelling	Hazard statements	Signal word	Risk statements
Alpha-Pinene	GHS02, GHS07, GHS08, GHS09	H226, H304, H317, H410	Danger	Xn, N, R10, R43, R50/53, R65
Alpha-Terpeneol	GHS07	H315, H319	Warning	Xi, R38
Cineol 1.8	GHS02	H226	Danger	R10
D-Limonene	GHS02, GHS07, GHS08, GHS09	H226, H304, H315, H317, H410	Danger	Xi, N, R10, R38, R43, R50/53
Linalool	GHS02, GHS07	H226, H315	Warning	Xi, R38
Linalyl acetate	GHS09	H411	Unregulated	N, R51/53
Myrcene	GHS02, GHS08	H226, H304, H412	Danger	Xn, R52/53, R65
Terpinyl acetate	GHS09	H411	Unregulated	N, Xn, R51/53

## 4/ First-aid measures

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### **In the event of skin contact**

Take off contaminated clothing.  
Wash immediately with soap and plenty of water.  
If irritation, get medical advice.

### **In the event of eye contact**

Flush immediately with plenty of flowing water for at least 10 minutes, holding eyelids apart.  
Consult an ophthalmologist.

### **In the event of ingestion**

I swallowed, rinse mouth with water.  
DO NOT induce vomiting.  
Get medical advice, showing label information .

### **In the event of excessive inhalation**

Move the victim to fresh air.  
Get medical advise immediately.

## 5/ Fire-fighting measures

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### **5.1 Extinguishing media**

Recommended : foam, dry powder, carbon dioxide (CO<sub>2</sub>)  
Inadvisable : avoid full water jet

### **5.2 Special hazards**

In case of fire, toxic fumes like carbon monoxide and carbon dioxide may be liberated.  
Burning produces heavy smoke, do not inhale fumes.

### **5.3 Particular protective measures**

Particular protective measures when fire-fighting:  
The pressure in the closed containers may increase with high temperature.  
Cool the endangered drums by water spraying or by an appropriate produce if water is not authorized.

### **5.4 Advice for firefighters**

Move undamaged containers from immediate hazard area if it can be done safely.  
Use suitable breathing apparatus.  
Regard to self protection.

## 6/ Accidental release measures

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### **6.1 Individual precautions**

Remove all sources of ignition (Avoid all flammable sources. Do not smoke.)  
Provide adequate ventilation.  
Give a warning to people in the hazardous area.  
Wear personal protection equipment.  
Avoid contact with skin, eyes, and clothing.

### **6.2 Precautions for environmental conservation**

Stop the substance to enter into drains and groundwater.  
Prevent spreading over a wide area.

### 6.3 Cleaning methods

Limit the dispersion of the product.

Absorb the liquid with an inert absorbent, such as oil or sand.

Wash with a grease extractor.

Get rid of the duster and sponges used, according to local regulations.

## 7/ Handling and storage

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### 7.1 Handling

Handle with care.

Keep the product away from heat and light.

Remove all sources of ignition.

Do not eat, drink, or smoke when handling the product.

Do not ingest the product.

Wear personal protective clothing.

Use only in well-ventilated areas.

### 7.2 Storage

Fit quantities according to container volume, avoid too important empty spaces.

It is recommended to stock the product in its original packaging, tightly closed, sheltered from heat sources, air and light.

Avoid important temperature variation. Keep in temperate and well-ventilated area.

Do not re-use empty used containers.

Respect the usual hygiene rules.

Packaging materials to be avoid: iron containers

### 7.3 Specific end use(s)

No data available (confer to above recommendations)

## 8/ Exposure controls / Personal protection

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### 8.1 Control parameters

No data available.

### 8.2 Exposure controls

Use in well ventilated areas.

Follow usual hygiene rules. Wash hands after handling the product.

Keep away from food and beverages.

Provide accessible fire-extinguisher.

### Personal protection equipment

#### ◆ Respiratory protection

Generally unnecessary in a well-ventilated area.

If ventilation is insufficient, respiratory protection must be worn.

For pulverulent products, the wearing of a mask is recommended.

#### ◆ Hand protection

The wearing of chemical solvent and acid resistant gloves is necessary. (according to EN374 regulation)

#### ◆ Eye protection

The wearing of adequate safety glasses is advised.

Prescription glasses do not qualify as safety glasses.

Contact lenses users should wear prescription and safety glasses while using the product.

#### ◆ Skin protection

Wear personal safety equipment.

Handle the product with care, avoiding skin contact.

## 9/ Physical and chemical properties

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### 9.1 General information

Quality:	Organic essential oil, 100% pure and natural
Appearance:	fluid liquid
Colour:	colorless to pale yellow
Odour:	characteristic, strong, spicy

### 9.2 Health, security and environmental information

Flash point:	+58°C
Specific gravity at 20°C:	0.915 to 0.936
Solubility in water:	Insoluble
Solubility in ethanol:	Soluble

### 9.3 Others

Refractive index at 20°C:	1.462 to 1.468
Optical rotation at 20°C:	+22° to +41°
Conservation:	Keep in tightly closed container in a cool and dry place, protected from light. Stable at usual storage and use conditions.
Lifetime:	When stored for more than 24 months, quality should be checked before use.
Main constituents:	terpinyl acetate (33 to 45%), cineol 1-8 (27 to 40%), linalyl acetate ( $\leq$ 7%), linalool (1 to 6%), sabinene (1 to 6%)

## 10/ Stability and reactivity

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### 10.1 Condition to avoid

Excessive heat, open flames or other sources of ignition.  
This product is stable at room temperature.  
Temperatures above room temperature will allow the transfer from liquid to vapour phase and the formation of explosive atmosphere.  
Storing the product in open containers will benefit the formation of peroxides and derogate the quality.

### 10.2 Material to avoid or incompatible

No data available.

### 10.3 Dangerous decomposition products

No dangerous decomposition product known, if used according to specifications.

## 11/ Toxicological information

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### For dermal and eye absorption:

Causes skin and severe eye irritation

### For dermal and breathing sensitization:

May cause a skin allergy

### About mutagenicity:

Not identified as mutagen

### About carcinogenicity:

Not identified as carcinogen

### Toxic effects on the reproductive system:

None

**Inhalation hazards:**

No data available

**Ill effect by absorption:** LD oral 50 N.D.**Ill effect by dermal contact:** LD dermal 50 N.D.**12/ Ecological information**

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Avoid any pollution of soil, ground and surface waters.

**12.1 Toxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**12.2 Mobility**

No data available.

**12.3 Persistence et degradability**

No data available.

**12.4 Bio-accumulative potential**

No data available.

**12.5 PBT evaluation results**

No data available.

**12.6 Other adverse effects**

No data available.

**13/ Disposal consideration**

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Dispose of or recycle waste material in accordance with local and EC environmental regulations.

**Air emission :** avoid**Wastewater disposal :** avoid**Release into natural environment:** avoid**Waste destruction:** Appropriate inceneration station

Do not use the empty containers

Get rid of the duster and sponges used by incineration.

**14/ Transport information**

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**14.1 UN number** 1169**14.2 Class**

ADR (road) / RID (rail):	Class 3 (Flammable liquids)
IMDG (sea):	Class 3 (Flammable liquids)
IATA (air):	Class 3 (Flammable liquids)



### 14.3 Label

Extracts, aromatic, liquid

### 14.4 Packaging group

III

### 14.5 Aquatic toxicity

yes



### 14.6 Other information

Custom rate code: 33.01.29.41.00

## 15/ Regulatory information

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### Classification according to 67/548/EEC and 1999/45/EC

N: Dangerous for the environment

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#### Risk statements:

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#### Safety statements:

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S61: Avoid release to the environment. Refer to special instructions / Safety Data Sheets.

## 16/ Other information

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The information and recommendation contained in the data sheet are, to the best of IN-LUSTRY'S knowledge and belief, an accurate and reliable representation as to this material's known data. It's the user's responsibility to evaluate this information in a prudent manner and to use it consistently.

#### Used acronyms:

<b>INCI</b>	International Nomenclature of Cosmetic Ingredients
<b>CAS</b>	Chemical Abstract Service
<b>TSCA</b>	Toxic Substances Control Act
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>FEMA</b>	Federal Emergency Management Agency
<b>FDA</b>	Food and Drug Administration
<b>CoE</b>	Council of Europe
<b>GHS</b>	Global Harmonized System
<b>CLP</b>	Classification and Labelling and Packaging of substances and mixtures
<b>ADR</b>	Agreement Dangerous goods by Road
<b>RID</b>	Regulations concerning the International Transport of Dangerous Goods by Rail
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IATA</b>	International Air Transport Association
<b>PBT</b>	Persistent Bioaccumulating Toxicants
<b>LD</b>	Lethal dose