

## SECTION 1: Identification of the substance/ mixture and of the Company / undertaking

### 1.1 Product Identifiers

Product Code : **RM03177**  
Product Name : **CARDAMOM OIL CO2**  
CAS No. (TSCA) : 8000-66-6  
EINECS : 288-922-1

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

No further relevant information available

**Application of the substance / preparation:**

Fragrance and Flavour

### 1.3 Manufacturer / Supplier Details:

**Ultra International Limited**

64/1, Site-IV, Industrial Area, Sahibabad, Ghaziabad, U.P. (India)

Tel.: +91 120 4388500 Fax: +91 120 4374000

Email: [ultra@ultraintl.com](mailto:ultra@ultraintl.com) \* [www.ultrainternational.com](http://www.ultrainternational.com)

### 1.4 Information in case of emergency:

Mr. Prasenjit Mazumdar

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## SECTION 2 : Hazard Identification

### 2.1 Classification of the substance / preparation

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. 2A H319: Causes serious eye irritation  
Aquatic Acute 2 H401: Toxic to aquatic life  
Aquatic Chronic 3 H412: Harmful to aquatic life with long-lasting effects

### 2.2 Label Elements

**GHS Signal Word**

DANGER

**Hazard Pictograms**



GHS07

GHS02

GHS09

GHS08

**Hazard Determining components of Labeling**

Limonene

Linalool

#### **Hazard Statements**

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

#### **Precautionary Statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P303+361+353	IF ON SKIN (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P333+313	If skin irritation or a rash occurs Get medical advice/attention
P410+403	Protect from sunlight. Store in a well ventilated place
P501	Dispose of contents/container to ( In accordance with local / regional / national / international regulation)

#### **2.3 Other Hazard**

*In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.*

### **SECTION 3: Composition / Information of Ingredients**

#### **3.1 Chemical characterisation: Substance**

<b>TSCA CAS Number</b>	: 8000-66-6
<b>EINECS CAS Number</b>	: 85940-32-5
<b>Description</b>	: <i>Elettaria cardamomum L.</i>
<b>EINECS Number</b>	: 288-922-1

#### **3.2 Dangerous components:**

*TERPINYL ACETATE (CAS No 8007-35-0)EH A2,SCI 3-H316,H401*  
*EUCALYPTOL (CAS No 470-82-6) ATO 5,FL 3,SCI 3,SS 1B-H303,H226,H316,H317*  
*LINALYL ACETATE (CAS No 115-95-7)EDI 2A,EH A3,FL 4,SCI 2-H319,H227,H315,H402*

#### **3.3 Additional Informations :**

*For the wordings of listed H statements refer to section 16*

### **SECTION 4 : First AID Measures**

#### **4.1 Description of first aid measures**

##### **General information:**

*If health disorder happens, call for medical help immediately.*

*Immediately remove any clothing soiled by the product.*

##### **After inhalation:**

*Supply fresh air and to be sure call for a doctor.*

*In case of unconsciousness place patient stably in side position for transportation.*

**After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*

**After eye contact:** *Rinse opened eye for several minutes under running water.*

**After swallowing:** *Do not induce vomiting; call for medical help immediately.*

#### **4.2 Most important symptoms and effects, both acute and delayed**

*No further relevant information available.*

#### **4.3 Indication of any immediate medical attention and special treatment needed**

*No further relevant information available.*

## SECTION 5 : Fire Fighting Measures

### 5.1 Extinguishing media

*Suitable extinguishing agents:* CO<sub>2</sub>, alcohol resistant foam, powder, water spray.

*For safety reasons unsuitable extinguishing agents:* Water with full jet

### 5.2 Special hazards arising from the substance or mixture

*In case of fire, the following can be released:*

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Smoke and soot

*Do not use water with full jet to prevent fire spreading.*

### 5.3 Advice for firefighters

**Protective equipment:** Wear self-contained respiratory protective device.

#### **Additional information**

*Cool endangered receptacles with water spray.*

*Collect contaminated fire fighting water separately. It must not enter the sewage system.*

*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

## SECTION 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

*Follow safety measures in chapter 7 and 8.*

*Wear protective equipment. Keep unprotected persons away.*

### 6.2 Environmental precautions:

*Do not allow to penetrate the ground/soil.*

*Inform respective authorities in case of seepage into water course or sewage system.*

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

### 6.3 Methods and material for containment and cleaning up:

*Wipe up little amounts with absorbent material like cloth or pulp.*

*Water and cleansing agent*

*Absorb with incombustible liquid-binding material (sand, diatomite, universal binders).*

*Dispose of contaminated material as waste according to item 13.*

### 6.4 Reference to other sections

*Keep ignition source away, do not smoke and avoid flames.*

*See Section 7 for information on safe handling.*

*See Section 8 for information on personal protection equipment.*

*See Section 13 for disposal information.*

## SECTION 7: Handling and storage

7.1 **Precautions for safe handling** personal protection equipment see point 8.

**Information about fire - and explosion protection:**

Fumes can combine with air to form an explosive mixture.

Moistened solids (e.g. cloth, pulp, filter panel, binder) has to be stored hermetically sealed and/or watered and proper disposed (see chapter 9 and 13).

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 **Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles.

Provide solvent resistant, sealed floor.

**Information about storage in one common storage facility:** Store away from oxidising agents.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**Storage class:** 3

**Classification according to Betriebsicherheitsverordnung (BetrSichV)** Flammable

7.3 **Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

8.1 **Control Parameters**

No data available.

## 8.2 Exposure controls

### **Personal protective equipment:**

#### **General protective and hygienic measures:**

Use personal protective equipment depending on concentration and amount of hazardous substance.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

#### **Respiratory protection:**

Suitable respiratory protection: filter class A2 (brown colour).

Use the rules for application of respiratory protection systems.

#### **Protection of hands:**

Preventive skin protection by use of skin-protecting agents is recommended.



#### **Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### **Material of gloves**

The election of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### **Penetration time of glove material**

> 480 minutes at layerthickness of 0,425 millimeter (Sol-Vex 37-695/Ansell).

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

#### **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

E.g. following product: Sol-Vex (37-695) from Ansell.

**As protection from splashes gloves made of the following materials are suitable: PVC gloves**

#### **Eye protection:**



Tightly sealed goggles according to EN 166:2001

**Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

### General Information

<b>Form</b>	:	Liquid
<b>Colour</b>	:	Pale yellow to greenish yellow
<b>Odour</b>	:	Aromatic, penetrating, and somewhat camphoraceous odor of cardamom
<b>Odour Threshold</b>	:	N/A

### Change in Condition

<b>Melting Point °C</b>	:	N/A
<b>Boiling Point °C</b>	:	N/A
<b>Flash Point (Closed Cup) °C</b>	:	64°C
<b>Specific Gravity/Relative Density</b>	:	0.930 - 0.950 @25°C
<b>Refractive Index</b>	:	1.460 - 1.475 @20°C
<b>Vapour Density</b>	:	N/A
<b>Vapour Pressure</b>	:	N/A

### Solubility:

<b>Water</b>	:	Insoluble
<b>Alcohol</b>	:	Soluble

<b>Flammability</b>	:	N/A
<b>Auto Ignition Temperature</b>	:	No data available

### Explosive Limits

<b>Lower Explosion Limits</b>	:	No data available
<b>Upper Explosion Limits</b>	:	No data available

<b>pH value</b>	:	N/A
<b>Optical Rotation</b>	:	+20° to +40°
<b>Surface Tension</b>	:	N/A
<b>Partition Coefficient</b>	:	N/A
<b>Granulometry</b>	:	N/A
<b>Oxidising Properties</b>	:	N/A
<b>Viscosity</b>	:	Not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

#### **Thermal decomposition / conditions to be avoided:**

Heating causes vaporisation and formation of ignitable atmosphere is possible.

### 10.3 Possibility of hazardous reactions

Formation of explosive gas mixture with air possible.

Product is not selfigniting; but in case of unpropitious storing conditions (air admission, heat accumulation) selfignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder).

Reacts violently with oxidising agents.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

### 10.6 Hazardous decomposition products:

No dangerous decomposition products expected by intended use.

### SECTION 11: Toxicological information

#### 11.1 Toxicological Information Acute

<b>Oral</b>	Not determined
<b>Inhalation</b>	Not determined
<b>Skin</b>	Not determined

#### 11.2 Exposure Limits Not determined

Note : There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been

### SECTION 12: Ecological information

#### 12.1 Toxicity

<b>PNEC Oral</b>	Not determined
<b>EC50 (48hrs)</b>	Not determined
<b>LC50 (96hrs)</b>	Not determined

#### 12.2 Persistence and degradability Not Determined

#### 12.3 Mobility in Soil Not Determined

#### 12.4 Results of PBT and vPvB assessment Not determined

#### 12.4 Other adverse effects Not Determined

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods:

##### Product/packaging disposal

Handle in accordance with official provisions

##### Waste treatment options

Recycling is preferred to disposal or burning

##### Disposal conditions

Dispose of in accordance with all federal, state and local environmental regulations.

#### 13.2 Recommendations:

Empty contaminated packing thoroughly as they may be recycled

Moistened solids to be dispose-off adhering to necessary technical regulations after consulting concerned authorities

## SECTION 14: Transport information

### 14.1 Land Transport (ADR/RID/GGVSE)

<b>UN Number</b>	3082
<b>DG Class</b>	9
<b>Packing Group</b>	III
<b>Proper Shipping Name</b>	Environmentally Hazardous Substance, liquid
<b>Classification code</b>	3Z

### 14.2 Sea Transport (IMDG-Code/GGVSE)

<b>UN Number</b>	3082
<b>DG Class</b>	9
<b>Packing Group</b>	III
<b>Proper Shipping Name</b>	Environmentally Hazardous Substance, liquid
<b>Marine Pollutant</b>	Yes

### 14.3 Air Transport (ICAO-TI/IATA-DGR)

<b>UN Number</b>	3082
<b>DG Class</b>	9
<b>Packing Group</b>	III

**ADR/IMDG/IATA Labels:**



### 14.5 Special precautions for users:

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse.

Prevent entry into drains, ground/surface water or sewerage system.

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

N/A

**Other Information**

**Custom Tariff Code** 3301.29.6000

**EmS Code** --

## SECTION 15: Regulatory information

### 15.1 EU regulations:

The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials.

**15.2 Water Hazard Class (Germany):** N/A

**15.3 Chemical safety Assessment** No data available

### 15.4 Other regulations, limitations and prohibitive regulations

**EPA** No

**TSCA** No

**DSL** No

**Preposition 65** No

Comply with the rules and regulations of skin protection.

Comply with the rules and regulations of respiratory protection.



## SECTION 16: Other information

### Abbreviations used:

<b>EC</b>	European Commission
<b>EU</b>	European Union
<b>DG</b>	Dangerous Goods
<b>CAS</b>	Chemical Abstract Service
<b>EINECS</b>	European Inventory of Existing Commercial chemical Substances
<b>GHS</b>	Globally Harmonized System
<b>CMR</b>	Carcinogen, Mutagen, Reprotoxic
<b>PNEC</b>	Predicted No Effect Concentration
<b>EC50</b>	Effective Concentration 50 percent
<b>LC50</b>	Lethal Concentration 50 percent
<b>PBT</b>	Persistent Bioaccumulative and Toxic
<b>vPvB</b>	Very Persistent Very Bioaccumulative
<b>EWC</b>	European Waste Catalogue
<b>EmS</b>	Emergency Medical Services
<b>ADR</b>	Transport of Dangerous Goods by Road
<b>RID</b>	International Carriage of Dangerous Goods by Rail
<b>GGVSE</b>	German Regulation on the Transport of Dangerous Goods by Road and Rail
<b>MDG</b>	International Maritime Dangerous Goods
<b>ICAO-TI</b>	International Civil Aviation Organization-Technical Instructions
<b>IATA-DGR</b>	International Air Transport Association-Dangerous Goods Regulation
<b>WGK</b>	Wassergefährdungsklassen
<b>EPA</b>	Environmental Protection Agency
<b>TSCA</b>	Toxic Substance Control Act
<b>DSL</b>	Dangerous Substance List

### Relevant Phrases

H226	Flammable liquid and vapour
H227	Combustible liquid
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

**Recommended restriction of use :** For industrial application only

### Quality Declaration

The information contained herein is based on the present state of our knowledge. It characterizes the product with regards to the appropriate safety precaution.