

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

### 1.1 Product Identifiers

Product Code : FRC03112  
Product Name : TURMERIC OIL CO2  
CAS No. (TSCA) : 8024-37-1  
EINECS : 283-882-1

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

No further relevant information available

**Application of the substance / preparation:**

Perfumes & Fragrances

### 1.3 Manufacturer / Supplier Details:

**Ultra International Limited**

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

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

### 1.4 Information in case of emergency:

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## SECTION 2 : Hazard Identification

### 2.1 Classification of the substance / preparation

Flam. Liq. 3	H226: Flammable liquid and vapour
Asp. Tox. 1	H304: May be fatal if swallowed and enters airways
Skin Sens. 1	H317: May cause an allergic skin reaction
Eye Irrit. 2A	H319: Causes serious eye irritation
Aquatic Acute 1	H400: Very toxic to aquatic life
Aquatic Chronic 1	H410: Very toxic to aquatic life with long-lasting effects

### 2.2 Label Elements

**GHS Signal Word**

DANGER

**Hazard Pictograms**



GHS07



GHS08

**Hazard Determining components of Labeling**

Linalool

para Cymene

alpha Pinene

#### Hazard Statements

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
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#### Precautionary Statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+312	IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell
P302+350	IF ON SKIN Gently wash with soap and water
P305+351+338	IF IN EYES Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – con
P403+233	Store in a well ventilated place. Keep container tightly closed
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

TSCA CAS Number	: 8024-37-1
EINECS CAS Number	: 84775-52-0
Description	: Curcuma longa
EINECS Number	: 283-882-1

#### 3.2 Dangerous components:

LINALOOL (CAS No. 78-70-6) ATO 5, EDI 2A, EH A3, FL 4, SCI 2-H227, H303, H315, H319, H402  
PARA CYMENE (CAS No. 99-87-6) AH 1, ATO 5(4750), EH A2, EH C2, FL 3, SCI 3-H226, H303, H304, H316, H401, H411

#### 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 Betriebs-sicherheitsverordnung (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>	:	Clear pale yellow
<b>Odour</b>	:	Characteristic warm,spicy,slightly woody and turmeric aroma.
<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>	:	Ca. 99°C
<b>Specific Gravity/Relative Density</b>	:	0.930 - 0.945 @25°C
<b>Refractive Index</b>	:	1.502 - 1.513 @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
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<b>Auto Ignition Temperature</b>	:	N/A
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### Explosive Limits

<b>Lower Explosion Limits</b>	:	N/A
<b>Upper Explosion Limits</b>	:	N/A

<b>pH value</b>	:	N/A
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<b>Optical Rotation</b>	:	-38° to -1°
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<b>Surface Tension</b>	:	N/A
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<b>Partition Coefficient</b>	:	N/A
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<b>Granulometry</b>	:	N/A
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<b>Oxidising Properties</b>	:	N/A
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<b>Viscosity</b>	:	Not estimated
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## 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

Oral	>5000 mg/kg
Inhalation	No data available
Skin	>5000 mg/kg

### 11.2 Exposure Limits

No data available

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

PNEC Oral	No data available
EC50 (48hrs)	No data available
LC50 (96hrs)	No data available

### 12.2 Persistence and degradability

Not Determined

### 12.3 Mobility in Soil

Not Determined

### 12.4 Results of PBT and vPvB assessment

No data available

### 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)

UN Number	3082
DG Class	9
Packing Group	III
Proper Shipping Name	Environmentally Hazardous Substance, Liquid
Classification code	3Z

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

UN Number	3082
DG Class	9
Packing Group	III
Proper Shipping Name	Environmentally Hazardous Substance, Liquid
Marine Pollutant	Yes

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

UN Number	3082
DG Class	9
Packing Group	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 3301.29.0000

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	Yes
DSL	Yes
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
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic 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.