



# SAFETY DATA SHEET

Version : GHS/SDS/04

Print Date: 09-Dec-2022

Product Name : **TURMERIC OIL CO2**

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

### 1.1 Product Identifiers

Product Code : UL3000052  
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:**

Flavour and Fragrance application.

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

### 1.4 Information in case of emergency:

Mr. Prasenjit Mazumdar

Ph.: +91 9810008844

Email : [ultra@ultrainternational.com](mailto:ultra@ultrainternational.com)

## SECTION 2 : Hazard Identification

### 2.1 GHS Classification of the substance / preparation

Flam. Liq. 4	H227: Combustible liquid
Asp. Tox. 1	H304: May be fatal if swallowed and enters airways
Skin Mild Irrit. 3	H316: Causes mild skin irritation
Skin Sens. 1	H317: May cause an allergic skin reaction
Aquatic Chronic 3	H412: Harmful to aquatic life with long-lasting effects

### 2.2 GHS Label Elements

**GHS Signal Word**

Danger

**Hazard Pictograms**



GHS07



GHS08

**Hazard Determining components of Labeling**

alpha-Zingiberene, Bisabolene

**Hazard Statements**

H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H316	Causes mild skin irritation
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H412	Harmful to aquatic life with long lasting effects

**Precautionary Statements**



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P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+350	IF ON SKIN Gently wash with soap and water
P403+233+410	Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight
P501	Dispose of contents/container to (in accordance with local/ regional/ national/ international regul

## 2.3 Other Hazard

The mixture contains no 'Substance of very high concern' (SVHC) as stipulated by the European Chemicals Agency (ECHA) under Article 57 of the REACH Regulation 1907/2006/EC.

The mixture does not meet the criteria for PBT/vPvB mixtures in compliance with Annex XIII of REACH Regulation 1907/2006/EC.

No additional Hazard known if used properly.

## SECTION 3: Composition / Information of Ingredients

### 3.1 General characterisation : Substance

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

### 3.2 Dangerous components :

alpha-Zingiberene(Cas No. 495-60-3)	:	Skin Sens. 1B;H317
Bisabolene(Cas No. 495-62-5)	:	Skin Irrit. 2;H315 Skin Sens. 1B;H317 Aquatic Acute 2;H401 Aquatic Chronic 2;H411 Acute Tox. 4 (Inhalation:dust,mist);H332

### 3.4 Additional Informations :

If available, exposure limits are listed in Section 8

## 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.



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### SECTION 5 : Fire Fighting Measures

#### 5.1 Extinguishing media

*Suitable extinguishing agents:* CO2, 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 (CO2)

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.*



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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid naked flames, sparking and sources of ignition.  
Ensure that workrooms are adequately ventilated.

#### Hygiene measures:

Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water and soap, skin care.  
Do not eat, drink or smoke while working.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container.  
Temperatures between + 10 °C and + 40 °C  
Keep container tightly sealed.  
Keep container in a well ventilated place.

### 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



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## SECTION 9: Physical and chemical properties

### General Information

Form	:	Liquid
Colour	:	Yellow to Dark Orange
Odour	:	warm, spicy, slightly woody and turmeric aroma.
Melting Point °C	:	Not Determined
Boiling Point °C	:	Not Determined
Flash Point (Closed Cup) °C	:	66°C
Specific Gravity/Relative Density	:	0.930 - 0.945 @25°C
Refractive Index	:	1.502 - 1.513 @20°C
Optical Rotation	:	-38° to -1°
Vapour Density	:	Not Determined
Vapour Pressure	:	Not Determined
Solubility:		
Water	:	Insoluble
Alcohol	:	Soluble
Auto Ignition Temperature	:	No Data Available
Lower Explosion Limits	:	No Data Available
Upper Explosion Limits	:	No Data Available
pH value	:	Not Determined
Partition Coefficient	:	Not Determined
Granulometry	:	Not Determined
Oxidising Properties	:	Not Determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known

### 10.2 Chemical stability

The product is chemically stable.

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

No decomposition if used according to the specifications or under recommended conditions of use.

### 10.4 Possibility of hazardous reactions

Avoid important temperature changes and humid environments.

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).

May react violently with oxidising agents.

### 10.5 Conditions to avoid

No further relevant information available.

### 10.6 Incompatible materials:

No further relevant information available.

### 10.7 Hazardous decomposition products:

No dangerous decomposition products expected by intended use.



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## SECTION 11: Toxicological information

### 11.1 Toxicological Information Acute

Oral	>5000 mg/kg
Inhalation	No Data Available
Skin	>5000 mg/kg

### 11.2 Skin Corrosion/skin irritation

No data available

### 11.3 Eye damage/ eye irritation

No data available

### 11.4 Respiratory or skin sensitisation

No data available

### 11.5 Germ cell mutagenicity

No data available

### 11.6 Carcinogenicity

No data available

### 11.7 Toxicity for reproduction

No data available

### 11.8 Specific Target Organ Toxicity: Single exposure

No data available

### 11.9 Specific Target Organ Toxicity: Repeated exposure

No data available

### 11.10 Aspiration Hazard

No data available

### 11.11 Exposure Limits

No data available

Note : There is a blanket recommendation of 10 mg/m<sup>3</sup> for inspirable dusts or mists when limits have not otherwise been established.

## SECTION 12: Ecological information

### 12.1 Toxicity

Do not leave the product, even diluted or in great quantity, penetrate the ground water, water or the drains .

### 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

### 12.5 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

## SECTION 14: Transport information



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

UN Number	Not Regulated
DG Class	N/A
Packing Group	N/A
Proper Shipping Name	N/A
Classification code	N/A

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

UN Number	Not Regulated
DG Class	N/A
Packing Group	N/A
Proper Shipping Name	N/A
Marine Pollutant	No

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

UN Number	Not Regulated
DG Class	N/A
Packing Group	N/A
Proper Shipping Name	N/A

## 14.4 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.

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

N/A

### Other Information

Custom Tariff Code 3301.29.4900

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) : --

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



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### 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 Phares

H227	Combustible liquid
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
H332	Harmful if inhaled
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
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.