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Product Name : LEMON OIL SOUTH AFRICAN

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

### 1.1 Product Identifiers

**Product Code** : RM0026  
**Product Name** : LEMON OIL SOUTH AFRICAN  
**CAS No. (TSCA)** : 8008-56-8  
**EINECS CAS Number** : N/A  
**EINECS** : 284-515-8  
**Reach Registration number** : 01-2119495512-35-0000

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

No further relevant information available

**Application of the substance / preparation:**

Food/Flavour, Fragrance application

### 1.3 Manufacturer / Supplier Details:

**Ultra International B.V.**

Malledijk 3H, 3208 LA Spijkensisse, (Loods 12-15) Netherlands

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

### 1.4 Information in case of emergency:

Mr. Prasenjit Mazumdar

Ph.: +91 9810008844

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

Nationaal Vergiftigingen Informatie Centrum (NVIC) tel. Nr. 030 274 88 88,

“Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen”.

## SECTION 2 : Hazard Identification

### 2.1 Classification of the substance / preparation

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

Flam. Liq. 3	H226: Flammable liquid and vapour
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
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

**Labeling according to Regulation (EC) No. 1272/2008**

This product is classified and labeled according to the CLP regulation.

**GHS Signal Word**

DANGER

**Hazard Pictograms**



GHS07

GHS02

GHS09

GHS08

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**Hazard Determining components of Labeling**

Limonene  
Pinenes  
gamma-Terpinene  
Citral

**Hazard Statements**

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  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects

**Precautionary Statements**

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking  
P264 Wash ... thoroughly after handling  
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  
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** : 8008-56-8  
**EINECS CAS Number** : N/A  
**Description** : Citrus limon  
**EINECS Number** : 284-515-8

**3.2 Dangerous components:**

LIMONENE (CAS No 5989-27-5) AH 1,EH A1,EH C1,FL 3,SCI 2,SS 1B, H304,H226,H315,H317,H410; Amount: 65-75%  
ALPHA PINENE (CAS No 80-56-8) AH 1,ATO 5(3500),FL 3,SCI 2,SS 1B, H304,H303,H226,H315,H317; Amount: 5-15%  
BETA PINENE (CAS No 127-91-3) AH 1,FL 3,SCI 2,SS 1B, H304,H226,H315,H317; Amount: 5-15%  
GAMMA-TERPINENE (CAS No 99-85-4) AH 1,ATO 5(3850),FL 3,SCI 3, H304,H303,H226,H316; Amount: 5-10%  
CITRAL (CAS No 5392-40-5) ATD 5(2250),EDI 2A,EH A2,SCI 2,SS 1B, H313,H319,H315,H317,H401; Amount: 1-2.5%

**3.3 Additional Informations :**

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

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#### 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.

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## 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 Betriebssicherheitsverordnung (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

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## 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

<b>Form</b>	:	Liquid
<b>Colour</b>	:	Pale yellow to Greenish yellow
<b>Odour</b>	:	Characteristic
<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>	:	46°C
<b>Specific Gravity/Relative Density</b>	:	0.840 - 0.858 @20°C
<b>Refractive Index</b>	:	1.473 - 1.476 @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>	:	Not self igniting

### Explosive Limits

<b>Lower Explosion Limits</b>	:	0.7 Vol%
<b>Upper Explosion Limits</b>	:	6.1 Vol %

<b>pH value</b>	:	N/A
<b>Optical Rotation</b>	:	57° to 65.6°
<b>Surface Tension</b>	:	Not determined
<b>Partition Coefficient</b>	:	N/A
<b>Granulometry</b>	:	N/A
<b>Oxidising Properties</b>	:	N/A
<b>Viscosity</b>	:	18 mm <sup>2</sup> /s Kinematics @ 20°C

## 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.

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### SECTION 11: Toxicological information

#### 11.1 Toxicological Information Acute

<b>Oral</b>	>5 gm/Kg bw (rat)
<b>Inhalation</b>	No data available
<b>Skin</b>	>10 gm/Kg bw (rabbit)

#### 11.2 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

### SECTION 12: Ecological information

#### 12.1 Toxicity

<b>PNEC Oral</b>	No data available
<b>EC50 (48hrs)</b>	No data available
<b>LC50 (96hrs)</b>	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

### 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>	1197
<b>DG Class</b>	3
<b>Packing Group</b>	III
<b>Proper Shipping Name</b>	Extracts, Flavouring Liquid
<b>Classification code</b>	3Y
<b>Danger Label</b>	3, Fish & tree



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

UN Number	1197
DG Class	3
Packing Group	III
Proper Shipping Name	Extracts, Flavouring Liquid
Marine Pollutant	Yes
Danger Label	3, Fish & tree



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

UN Number	1197
DG Class	3
Packing Group	III
Proper Shipping Name	Extracts, Flavouring Liquid
Danger Label	3



**14.4 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.

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

N/A

**14.6 Other Information**

Custom Tariff Code 3301.13.1000

EmS Code F-E, S-E

**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):** WGK 3

**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.



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## 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

<b>H226</b>	Flammable liquid and vapour
<b>H304</b>	May be fatal if swallowed and enters airways
<b>H315</b>	Causes skin irritation
<b>H317</b>	May cause an allergic skin reaction
<b>H400</b>	Very toxic to aquatic life
<b>H410</b>	Very 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.