

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

1.1 Product Identifiers

Product Code : FRC02721
Product Name : LEMON GRASS OIL
CAS No. (TSCA) : 8007-02-1
EINECS : 289-752-0

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 Application

1.3 Manufacturer / Supplier Details:

Ultra International Limited

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1.4 Information in case of emergency:

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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
Acute Tox. Dermal 5	H313: May be harmful in contact with skin
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 2	H411: Toxic to aquatic life with long-lasting effects

2.2 Label Elements

GHS Signal Word

DANGER

Hazard Pictograms



GHS07



GHS08

GHS05

Hazard Determining components of Labeling

Limonene

Citral

Hazard Statements

H304	May be fatal if swallowed and enters airways
H313	May be harmful in contact with skin
H315	Causes skin irritation
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H411	Toxic to aquatic life with long lasting effects

Precautionary Statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
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
P310	Immediately call a POISON CENTER or doctor/physician
P305+351+338	IF IN EYES Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do –
P333+313	If skin irritation or a rash occurs Get medical advice/attention

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	: 8007-02-1
EINECS CAS Number	: 89998-14-1
Description	: <i>Cymbopogon citratus</i>
EINECS Number	: 289-752-0

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
CITRAL (CAS No.5392-40-5) ATD 5, EDI 2A, EH A2, SCI 2, SS 1B, H313, H319, H315, H317, H401

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: 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.

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.

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

Form	:	Liquid
Colour	:	Pale yellow to orange yellow
Odour	:	Characteristic with strong note of citral
Odour Threshold	:	N/A

Change in Condition

Melting Point °C	:	N/A
Boiling Point °C	:	N/A
Flash Point (Closed Cup) °C	:	Ca. 71°C
Specific Gravity/Relative Density	:	0.872 - 0.897 @20°C
Refractive Index	:	1.483 - 1.489 @20°C
Vapour Density	:	N/A
Vapour Pressure	:	N/A

Solubility:

Water	:	Insoluble
Alcohol	:	1:3 in 70% alcohol

Flammability	:	N/A
Auto Ignition Temperature	:	Not determined

Explosive Limits

Lower Explosion Limits	:	Not determined
Upper Explosion Limits	:	Not determined

pH value	:	N/A
Optical Rotation	:	-3° to +1°
Surface Tension	:	N/A
Partition Coefficient	:	N/A
Granulometry	:	N/A
Oxidising Properties	:	N/A
Viscosity	:	N/A

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	>5000.00 mg/kg
Inhalation	No data available
Skin	>5000.00 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, n.o.s.
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, n.o.s.
Marine Pollutant	Yes

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

UN Number	3082
DG Class	9
Packing Group	III

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.

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

N/A

Other Information

Custom Tariff Code 3301.29.4100

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): 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.

Comply with the rules and regulations of respiratory protection.

SECTION 16: Other information

Abbreviations used:

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

Relevant Phrases

H304	May be fatal if swallowed and enters airways
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H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H401	Toxic to aquatic life
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.