

	SAFETY DATA SHEET (According to Regulation (EC) No. 1907/2006 (REACH))	Version : SDS/2010/1 Date: 24/08/2013 Revision : Date: Page No. : Page 1 of 6
	FRC02721 LEMONGRASS OIL	

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1	Product Identifiers	Product Code FRC02721 Product Name LEMONGRASS OIL CAS No. 8007-02-1 Index No. N/A CLP Reference No. N/A REACH Registration No. N/A EC No. 289-752-0 FEMA No. 2624
1.2	Use	Essential Oil
1.3	Company / Undertaking Identification	Ultra International Ltd. 64 / 1, Site-IV, Industrial Area, Sahibabad - 201010 (U.P.) India Tel: +91 -120 - 4388500 Fax: +91-120 - 437 4000 / 437 4444 E-mail: ultra@ultraintl.com Website: www.ultrainternational.com
1.4	Emergency Telephone	+91-9810008844

2. HAZARD IDENTIFICATION

2.1 Classification of the substance / preparation

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS classification]

HAZARD CATEGORY

- Flammable Liquid 4
- Acute Toxicity (Dermal) 5
- Skin Corrosion/Irritation 2
- Skin Sensitization 1
- Serious eye damage/eye Irritation 1
- Aquatic acute 2
- Aquatic Chronic 3

HAZARD STATEMENTS

- H227 COMBUSTIBLE LIQUID
- H313 MAY BE HARMFUL IN CONTACT WITH SKIN
- H315 CAUSES SKIN IRRITATION
- H317 MAY CAUSE AN ALLERGIC SKIN REACTION
- H318 CAUSES SERIOUS EYE DAMAGE
- H401 TOXIC TO AQUATIC LIFE
- H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R38	IRRITATING TO SKIN
R43	MAY CAUSE SENSITISATION BY SKIN CONTACT
R52/53	HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

2.2 Label Elements

Label elements according to Regulation (EC) No. 1272/2008 (Substance)/Directive 67/548/EEC

Hazard Pictogram / Symbol:



GHS 01



GHS 07

Signal word / Indication(s) of danger:

Danger

Hazard Pictogram / Symbol:



Xi Irritant

Hazard Statements

- H227 COMBUSTIBLE LIQUID
- H313 MAY BE HARMFUL IN CONTACT WITH SKIN
- H315 CAUSES SKIN IRRITATION
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SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006 (REACH))

Version : SDS/2010/1
Date: 24/08/2013
Revision :
Date:
Page No. : Page 2 of 6

FRC02721

LEMONGRASS OIL

Precautionary Statements

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING
P241 USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/LIGHTING/.../EQUIPMENT
P301+310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN
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 RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P405 STORE LOCKED UP
P501 DISPOSE OF CONTENTS/CONTAINER TO ... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION).

3. COMPOSITION / INFORMATION OF INGREDIENTS

Substance Name : LEMONGRASS OIL
Product Description : This product is a 100% natural essential oil.
Hazardous Components : D-LIMONENE (CAS No 5989-27-5) Xi, N, R10, R38, R43, R50/53
CITRAL (CAS No 5392-40-5) Xi, R38, R43
GERANIOL (CAS No 106-24-1) Xi R38,R41,R43
GERANYL ACETATE (CAS No 105-87-3) N R51/53
MYRCENE (CAS No 123-35-3) Xn R10,R38,R65
CAS No : 8028-48-6
EC No : 232-433-8
Botanical Name : *Cymbopogon flexuosus*
Synonyms : LEMONGRASS OIL
Stabalizers : N/A
Index No. : N/A
CLP Reference No. : N/A
REACH Registration No. : N/A

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye Contact : Remove contact lenses if worn. Flush immediately with plenty of water.
Skin Contact : Remove contaminated clothing. Wash affected area with mild soap and water.
Inhalation : Remove affected person to fresh air. If discomfort persists, consult physician.
Swallowing : Seek immediate medical care.

4.2 Indication of any immediate medical attention and special treatment method

IF SWALLOWED: Immediately call a POISON CENTER or Doctor/Physician.
IF ON SKIN (or hair): Remove /take off immediately all contaminated clothing. Rinse skin with water /shower.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

- Suitable : Carbon Dioxide; Dry Chemical; Universal Type Foam.
- Unsuitable : Water spray; others not established.

5.2 Special hazards arising from substance

Combustible liquid Possibility of development of hazardous gases or vapors in event of fire Following may develop: CO and CO2

5.3 Advice for fire fighters

Do not stay in dangerous zone without self protective clothing and breathing apparatus Spray extinguishing media directly into base of fire Cool containers exposed to flame with water Prevent fire fighting water entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment and emergency procedures

Wear personal protective clothing. Keep away unprotected individuals. Eliminate source of ignition. Keep area well ventilated and isolate the spill.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Pick up with absorbents material (Sand) or with pump for large spills.

6.4 Reference to other sections

Refer to Section 7, 8 & 13



SAFETY DATA SHEET
(According to Regulation (EC) No. 1907/2006 (REACH))

Version : SDS/2010/1
Date: 24/08/2013
Revision :
Date:
Page No. : Page 3 of 6

FRC02721

LEMONGRASS OIL

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Measures to prevent fire

Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Use explosion proof electrical/ ventilating/lighting/equipment etc.

Measures to prevent aerosols and dust generation

Ensure good ventilation at workplaces

Measures to protect the environment

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

General Occupational hygiene

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

7.2 Conditions for safe use, including any incompatibilities

Information on storage conditions

Should be stored in cool, dark, dry, well ventilated places in full, tightly sealed containers protected from light & source of ignition

Information on packing materials

Should be packed in Aluminium, HDPE Food Grade Cans, MS Coated Drums, and GI Drums, Avoid long contact with Iron

Requirements for storage rooms and vessels

Should be stored in suitable containers (lines inside) e.g. MS Coated Drums, GI Drums etc. No special requirement for storage rooms.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

8.1 Appropriate engineering controls

Engineering controls should be used as the primary means to control exposures

8.2 Personal protective equipments

Skin protection



Safety gloves

Eye protection



tight safety goggles

Body protection



Protective clothing

Respiratory protection



Dust mask

8.3 Environmental exposure controls

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

-physical state
-colour

Liquid
Yellow to light brown red

Odour

Characteristic, heavy lemon-like

Odour Threshold

Medium

pH

N/A

Melting Point °C

N/A

Boiling Point °C

N/A

Flash Point (Closed Cup) °C

71 °C

Vapour Pressure

N/A

Vapour Density

Not Estimated

Specific Gravity /Relative Density

0.852 – 0.905 @ 25°C

Refractive Index

1.483 – 1.489 @ 20° C

Optical Rotation

-4° to +1°

Surface tension

Not Estimated

Solubility

-Water

Insoluble

-Alcohol

1:3 in 70% Alcohol

Viscosity

N/A

Partition Coefficient

Not estimated



SAFETY DATA SHEET
(According to Regulation (EC) No. 1907/2006 (REACH))

Version : SDS/2010/1
Date: 24/08/2013
Revision :
Date:
Page No. : Page 4 of 6

FRC02721

LEMONGRASS OIL

Explosive Limits

-Lower Explosion Limit	N/A
-Upper Explosion Limit	N/A
Auto ignition Temperature	N/A
Flammability	N/A
Granulometry	N/A
Oxidising Properties	N/A

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive, stable at room temperature.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Reactions with strong oxidizers

10.4 Conditions to avoid

No decomposition if stored and handled properly

10.5 Incompatible materials

Avoid strong acids strong bases and all oxidising agents

10.6 Hazardous decomposition products

No dangerous decomposition products expected by intended use

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity oral (LD50)	>5 g/kg
11.2 Acute toxicity inhalation	>5 g/kg
11.3 Acute toxicity dermal (LD50)	Not determined
11.4 Skin Irritation/Corrosion	Not determined
11.5 Respiratory sensitization	Not determined
11.6 Skin sensitization	N/A
11.7 CMR Effects	
Carcinogenicity	No
Mutagenicity	No
Toxic to reproduction	No
11.8 Eye Irritation / Corrosion	Not determined
11.9 Exposure limits	There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been established.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	
PNEC Oral	: N/A
NOAEL	: N/A
EC50 (48hrs)	: N/A
LC50 (96hrs)	: N/A
12.2 Persistence and degradability	: Readily biodegradable in water
12.3 Mobility in Soil	: Low mobility
12.4 Results of PBT and vPvB assessment	N/A

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Product/packaging disposal

Handle in accordance with official provisions

Waste treatment options

Recycling is preferred to disposal or burning

Waste code /Waste designations according to EWC/AVV

15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

13.2 Recommendations

Empty contaminated packing thoroughly as they may be recycled

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



SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006 (REACH))

Version : SDS/2010/1
Date: 24/08/2013
Revision :
Date:
Page No. : Page 5 of 6

FRC02721

LEMONGRASS OIL

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 : 3Y
Hazard Labels :



14.2 Sea Transport (IMDG-Code/GGVSee)

UN Number : 3082
DG Class : 9
Packing Group : III
Proper Shipping Name : Environmentally hazardous Substance, liquid, n.o.s
Marine Pollutant : Yes
Hazard Labels :



14.3 Air Transport (ICAO-IAT/DGR)

UN Number : 3082
DG Class : 9
Packing Group : III
Proper Shipping Name : Environmentally hazardous Substance, liquid, n.o.s
Hazard Labels :



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 29 6000
EmS Code : -

15. REGULATORY INFORMATION

EU regulations:

The product has been classified and labelled according to criteria provided in Directive 67/548/EEC and 1272/2008/EC, and following the recommendations of EFFA (European Flavor and Fragrance Association).

Other Regulations: German Regulation (VwVws)

Water Hazard Class : WGK 3

16. OTHER INFORMATION

16.1 Changes to previous version

Changes applicable according to regulation (EC) No 1907/2006 (REACH)

16.2 Abbreviations and acronyms

GHS : Globally Harmonized System of Classification and labeling of Chemicals
CAS : Chemical abstract Service (division of American Chemical society)
CLP : Classification, Labelling and Packaging
LD50 : Lethal concentration, 50 percent
EC50 : Effective concentration, 50 percent
PNEC : Predicted No Effect Concentration
NOAEL : No Observed Adverse Effect Levels
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
RID : Regulations Concerning the International Transport of Dangerous Goods by Rail



SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006 (REACH))

Version : SDS/2010/1
Date: 24/08/2013
Revision :
Date:
Page No. : Page 6 of 6

FRC02721

LEMONGRASS OIL

IMDG : International Maritime Code for Dangerous Goods
IATA : International Air Transport Association
IATA-DGR : Dangerous Goods Regulations by the International Air Transport Association (IATA)
ICAO : International Civil Aviation Organization

16.4 Wording of relevant hazard statement and/or precautionary statements referred to in section 2 to 15

Hazard Codes

Xi IRRITANT

Risk Phrases

R38 IRRITATING TO SKIN
R43 MAY CAUSE SENSITISATION BY SKIN CONTACT
R52/53 HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

Safety Phrases

S24 AVOID CONTACT WITH SKIN
S36/37 WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES
S61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET

Hazard Statements

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P333+313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P405 STORE LOCKED UP
P501 DISPOSE OF CONTENTS/CONTAINER TO ... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION).

16.5 Training advice appropriate for workers

N/A

16.6 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. It does not represent a guarantee of the properties of the product.