

	SAFETY DATA SHEET (According to Regulation (EC) No. 1907/2006 (REACH))	Version : SDS/2010/1 Date: 17/05/2013 Revision : Date: Page No. : Page 1 of 6
	RM0001 LEMON OIL ITALIAN	

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

1.1	Product Identifiers	Product Code RM0001 Product Name LEMON OIL ITALIAN CAS No. 8008-56-8 Index No. N/A CLP Reference No. 02-2119699168-20-0000 REACH Pre-Registration No. ---- EC No. 284-515-8 FEMA No. 2625
1.2	Use	Use in Flavour / Food Application.
1.3	Company / Undertaking Identification	Ultra International B.V. Malledijk 3H, 3208 LA Spijkennisse, (Loods 12-15), Netherlands Tel : +3161 8431850 Fax : +91-120 - 437 4000 E-mail : ultraintl.nl@gmail.com * www.ultrainternational.com +91-9810008844
1.4	Emergency Telephone	

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 3
 Aspiration Hazard 1
 Skin Corrosion/Irritation 2
 Skin Sensitization 1
 Aquatic acute 1
 Aquatic Chronic 1

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

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

R10	FLAMMABLE
R38	IRRITATING TO SKIN
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED
R50/53	VERY TOXIC 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 07



GHS 02



GHS 08



GHS 09

Signal word / Indication(s) of danger:

Danger

Hazard Pictogram / Symbol:



N Dangerous for the environment



Xn Harmful

Hazard Statements

H226	FLAMMABLE LIQUID AND VAPOUR
H304	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
H315	CAUSE SKIN IRRITATION
H317	MAY CAUSE AN ALLERGIC SKIN REACTION
H410	VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Precautionary Statements

P210	KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING
P233	KEEP CONTAINER TIGHTLY CLOSED



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P241	USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/LIGHTING/.../EQUIPMENT
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
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
P331	DO NOT INDUCE VOMITTING
P333+313	IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P405	STORE LOCKED UP
P501	DISPOSE OFF CONTAINERS TO..... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION)

3. COMPOSITION / INFORMATION OF INGREDIENTS

Substance Name	: LEMON OIL ITALIAN
Product Description	: This product is a 100% natural flavour ingredient.
Hazardous components	: D-LIMONENE (CAS No 5989-27-5) Xi, N, R10, R38, R43, R50/53 BETA-PINENE (CAS No 127-91-3); Xn, Xi; R43, R50/53, R65 GAMMA-TERPINENE (CAS No 99-85-4); Xn, R10, R65

CAS No.	: 8008-56-8
EC No.	: 284-515-8
Botanical Name	: <i>Citrus limon (L.) Burm. f. (Rutaceae)</i>
Stabilizers	: N/A
Hazard Impurities	: N/A
Synonyms	: Citrus limon (L.) Burm. F.
Index No.	: N/A
CLP Reference No.	: 02-2119699168-20-0000
REACH Pre-Registration No.	: ---

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.

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6.4 Reference to other sections

Refer to Section 7, 8 & 13

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

Liquid

-colour

Pale Yellow to Deep Yellow

Odour

Characteristic

Odour Threshold

Medium

pH

N/A

Melting Point °C

N/A

Boiling Point °C

N/A

Flash Point (Closed Cup) °C

50 ° C

Vapour Pressure

N/A

Vapour Density

N/A

Specific Gravity /Relative Density

0.845 - 0.860 @ 20 ° C

Refractive Index

1.468 - 1.480 @ 20 ° C

Optical Rotation

+57° - +65.6°

Surface tension

N/A

Solubility

-Water

Insoluble

-Alcohol


1:3 in 95% alcohol

Viscosity

N/A

Partition Coefficient

N/A

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Explosive Limits

-Lower Explosion Limit	Not Determined
-Upper Explosion Limit	Not Determined
Auto ignition Temperature	N/A
Flammability	Flammable
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 gm/kg bw (Rat)
11.2 Acute toxicity inhalation	Not Determined
11.3 Acute toxicity dermal (LD50)	> 10 gm/kg bw (Rabbit)
11.4 Skin Irritation/Corrosion	Irritating
11.5 Respiratory sensitization	N/A
11.6 Skin sensitization	Sensitizing
11.7 CMR Effects	
Carcinogenicity	No
Mutagenicity	No
Toxic to reproduction	No
11.8 Eye Irritation / Corrosion	Not irritating
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 Aqua (fresh water)	:	Not estimated
PNEC Aqua (marine water)	:	Not estimated
PNEC Aqua (intermittent release)	:	Not estimated
PNEC Sediment (fresh water)	:	Not estimated
PNEC Sediment (marine water)	:	Not estimated
PNEC Soil	:	Not estimated
PNEC Oral	:	Not estimated
NOAEL	:	N/A
EC50 (48hrs)	:	Not estimated
LC50 (96hrs)	:	Not estimated

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



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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

14. TRANSPORT INFORMATION

14.1 Land Transport (ADR/RID/GGVSE)

UN Number 1197
DG Class 3
Packing Group III
Proper Shipping Name Extracts, Flavouring, Liquid
Classification Code 3Y
Hazard Labels



14.2 Sea Transport (IMDG-Code/GGVSee)

UN Number 1197
DG Class 3
Packing Group III
Proper Shipping Name Extracts, Flavouring, Liquid
Marine Pollutant Yes
Hazard Labels



14.3 Air Transport (ICAO-IAT/DGR)

UN Number 1197
DG Class 3
Packing Group III
Proper Shipping Name Extracts, Flavouring, Liquid
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 90 30
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

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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
- 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

- N** DANGEROUS FOR THE ENVIRONMENT
- Xn** HARMFUL

Risk Phrases

- R10** FLAMMABLE
- R38** IRRITATING TO SKIN
- R 43** MAY CAUSE SENSITIZATION BY SKIN CONTACT.
- R 65** HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED
- R 50/53** VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

Safety Phrases

- S24** AVOID CONTACT WITH SKIN
- S37** WEAR SUITABLE GLOVES
- S61** AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET
- S62** IF SWALLOWED, DO NOT INDUCE VOMITTING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

Hazard Statements

- H226** FLAMMABLE LIQUID AND VAPOUR
- H304** MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
- H315** CAUSES SKIN IRRITATION
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- H400** VERY TOXIC TO AQUATIC LIFE
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Precautionary Statements

- P210** KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING
- P233** KEEP CONTAINER TIGHTLY CLOSED
- P241** USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/LIGHTING/.../EQUIPMENT
- 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
- 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
- P331** DO NOT INDUCE VOMITTING
- P333+313** IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
- P405** STORE LOCKED UP
- P501** DISPOSE OFF CONTAINERS 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.