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

1.1 Product Identifiers

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Name</th>
<th>CAS No.</th>
<th>Index No.</th>
<th>CLP Reference No.</th>
<th>REACH Registration No.</th>
<th>EC No.</th>
<th>FEMA No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR1001</td>
<td>LEMON OIL SPRING</td>
<td>8008-56-8</td>
<td>N/A</td>
<td></td>
<td></td>
<td>284-515-8</td>
<td>2625</td>
</tr>
</tbody>
</table>

1.2 Use

Use in Flavour / Food Application.

1.3 Company/Undertaking Identification

Ultra International B.V.
Malledijk 3H, 3208 LA Spijkenisse, (Loods 12-15), Netherlands
Tel: +316 61915330  Fax: +91-120-437 4000
E-mail: ultraintl.nl@gmail.com  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]

<table>
<thead>
<tr>
<th>HAZARD CATEGORY</th>
<th>HAZARD STATEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Liquid 3</td>
<td>H226 FLAMMABLE LIQUID AND VAPOUR</td>
</tr>
<tr>
<td>Aspiration Hazard 1</td>
<td>H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation 2</td>
<td>H315 CAUSES SKIN IRRITATION</td>
</tr>
<tr>
<td>Skin Sensitization 1</td>
<td>H317 MAY CAUSE AN ALLERGIC SKIN REACTION</td>
</tr>
<tr>
<td>Aquatic acute 1</td>
<td>H400 VERY TOXIC TO AQUATIC LIFE</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS</td>
</tr>
</tbody>
</table>

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

Printed By: SAP Business One
SAFETY DATA SHEET

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

FR1001  LEMON OIL SPRING

Precautionary Statements
P241 : USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/LIGHTING/…/EQUIPMENT
P210 : KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING
P 261 : AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY
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
P 333+313 : IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P 273 : AVOID RELEASE TO THE ENVIRONMENT
P 233 : KEEP CONTAINER TIGHTLY CLOSED
P 280 : WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION FACE PROTECTION
P 331 : DO NOT INDUCE VOMITTING
P 501 : DISPOSE OFF CONTAINERS TO….. (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION)

3. COMPOSITION / INFORMATION OF INGREDIENTS

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>LEMON OIL SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance Description</td>
<td>This product is a 100% flavoring agent.</td>
</tr>
<tr>
<td>Hazardous Components</td>
<td>d-Limonene (CAS Nº 5989-27-5); Xi,N;R10,R38,R43,R50/R53 ;</td>
</tr>
<tr>
<td></td>
<td>Alpha-pinene (CAS Nº 80-56-8); Xn,N,R10,R43,R50/R53,R65 ;</td>
</tr>
<tr>
<td></td>
<td>beta-pinene (CAS Nº 127-91-3); Xn,Xi,R43,R50/R53,R65 ;</td>
</tr>
<tr>
<td></td>
<td>gamma-terpenene (CAS Nº 99-85-4); Xn,R10,R65;</td>
</tr>
<tr>
<td></td>
<td>Citral (CAS Nº 5392-40-5); Xi,R38,R43;</td>
</tr>
<tr>
<td>CAS No.</td>
<td>8008-56-8</td>
</tr>
<tr>
<td>EC No.</td>
<td>284-515-8</td>
</tr>
<tr>
<td>Botanical Name</td>
<td>Citrus limon (L.)</td>
</tr>
<tr>
<td>Stabilizers</td>
<td>N/A</td>
</tr>
</tbody>
</table>
| Synonyms             | Lemon oil Argentina
                       | Lemon peel oil |
| Index No.            | N/A              |
| CLP Reference No.    | -                |
| REACH 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.

6.4 Reference to other sections
Refer to Section 7, 8 & 13

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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

8.1 Appropriate engineering controls
- Engineering controls should be used as the primary means to control exposures

8.2 Personal protective equipments
- Skin protection
- Eye protection
- Body protection
- Respiratory protection

<table>
<thead>
<tr>
<th>Safety gloves</th>
<th>Tight safety goggles</th>
<th>Protective clothing</th>
<th>Dust mask</th>
</tr>
</thead>
</table>

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
  - 160°C
- Flash Point (Closed Cup) °C
  - 50 °C
- Vapour Pressure
  - 218.8 Pa @ 25°C
- Vapour Density
  - N/A
- Specific Gravity /Relative Density
  - 0.840 - 0.865 @ 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
  - 1.28mm²/s @ 20°C
- Partition Coefficient
  - 3.3 – 6.3
Explosive Limits
- Lower Explosion Limit: 0.70 Vol%
- Upper Explosion Limit: 6.10 Vol%

Auto Ignition Temperature: 1012.9 - 1017.5 hPa of 235°C

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): 5.4µg/L
- PNEC Aqua (marine water): 0.54µg/L
- PNEC Aqua (intermittent release): 5.77µg/L
- PNEC Sediment (fresh water): 1.3 mg/kg sediment dw
- PNEC Sediment (marine water): 0.13 mg/kg sediment dw
- PNEC Soil: 0.261 mg/kg soil dw
- PNEC Oral: 13.3 mg/Kg food
- NOAEL: N/A
- EC50 (48hrs): 7.2 mg/L (Daphnia magna)
- LC50 (96hrs): 0.3 mg/L (Fish)

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

14. TRANSPORT INFORMATION

14.1 Land Transport (ADR/RID/GGVSE)
UN Number 2319
DG Class 3
Packing Group III
Proper Shipping Name Terpene, Hydrocarbons, N.O.S
Classification Code 3Y
Hazard Labels

14.2 Sea Transport (IMDG-Code/GGVSee)
UN Number 2319
DG Class 3
Packing Group III
Proper Shipping Name Terpene, Hydrocarbons, N.O.S
Marine Pollutant Yes
Hazard Labels

14.3 Air Transport (ICAO-IAT/DGR)
UN Number 2319
DG Class 3
Packing Group III
Proper Shipping Name Terpene, Hydrocarbons, N.O.S

14.4 Special precautions for users
Wear protective gloves/protection 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 0000
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 Labelling 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 : 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
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

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
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
P241 : USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/.../EQUIPMENT
P210 : KEEP AWAY FROM HEAT/SPARKS/Open FLAMES/HOT SURFACES. – NO SMOKING
P261 : AVOID BREATTHING DUST/FUME/GAS/MIST/VAPOURS/Spray
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P303+361+353 : IF ON SKIN (OR HAIR); REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER
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P280 : WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
P331 : DO NOT INDUCE VOMITTING
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.