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

## 1.1 Product Identifiers
- **Product Code**: UIL101698
- **Product Name**: PALMAROSA OIL
- **CAS No.**: 8014-19-5
- **CLP Reference No.**: N/A
- **REACH Registration No.**: N/A
- **EC No.**: 283-461-2
- **FEMA No.**: 2831

## 1.2 Use
Use in Flavour / Food Application.

## 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]

<table>
<thead>
<tr>
<th>HAZARD CATEGORY</th>
<th>HAZARD STATEMENTS</th>
</tr>
</thead>
<tbody>
<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>Eye damage 1</td>
<td>H318 CAUSE SERIOUS EYE DAMAGE</td>
</tr>
<tr>
<td>Aquatic acute 2</td>
<td>H401 TOXIC TO AQUATIC LIFE</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS</td>
</tr>
</tbody>
</table>

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

- R38 IRRITATING TO SKIN
- R41 RISK OF SERIOUS DAMAGE TO EYES
- 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 05
- GHS 07

**Signal word / Indication(s) of danger:**
- Danger

**Hazard Pictogram / Symbol:**
- Xi IRRITANT

**Hazard Statements**
- H315 CAUSES SKIN IRRITATION
- H317 MAY CAUSE AN ALLERGIC SKIN REACTION
- H318 CAUSE SERIOUS EYE DAMAGE
- H401 TOXIC TO AQUATIC LIFE
- H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS
3. COMPOSITION / INFORMATION OF INGREDIENTS

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>PALMAROSA OIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product description</td>
<td>This product is 100% essential oil.</td>
</tr>
<tr>
<td>Hazardous Components</td>
<td>GERANIOL (CAS No 106-24-1); Xi, R38, R 41, R43</td>
</tr>
<tr>
<td></td>
<td>GERANYL ACETATE (CAS No 105-87-3); N; R 51/53</td>
</tr>
<tr>
<td></td>
<td>LINALOOL (CAS No 78-70-6); Xi, R38</td>
</tr>
<tr>
<td>CAS No</td>
<td>8014-19-5</td>
</tr>
<tr>
<td>EC No</td>
<td>283-461-2</td>
</tr>
<tr>
<td>Botanical Name</td>
<td>Cymbopogon martinii (Roxb.) Wats.</td>
</tr>
<tr>
<td>Stabilizers</td>
<td>N/A</td>
</tr>
<tr>
<td>Hazard Impurities</td>
<td>N/A</td>
</tr>
<tr>
<td>Synonyms</td>
<td>PALMAROSA OIL</td>
</tr>
<tr>
<td></td>
<td>Cymbopogon martini ext.</td>
</tr>
<tr>
<td>Index No.</td>
<td>N/A</td>
</tr>
<tr>
<td>CLP Reference No.</td>
<td>N/A</td>
</tr>
<tr>
<td>REACH Registration No.</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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
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  Eye protection  Body protection  Respiratory protection
Safety gloves  tight safety goggles  Protective clothing  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
Odour  Characteristic, sweet rose like
Odour Threshold  Medium
pH  N/A
Melting Point °C  N/A
Boiling Point °C  Not Determined
Flash Point (Closed Cup) °C  100 °C
Vapour Pressure  Not Estimated
Vapour Density  Not Estimated
Specific Gravity /Relative Density  0.878 - 0.892 @ 25°C
Refractive Index  1.470 - 1.478 @ 20° C
Optical Rotation  -2° to +3°
Surface tension  Not Estimated
Solubility
- Water  Insoluble
- Alcohol  1:3 (v/v) in 70% alcohol
Viscosity  Not Estimated
Partition Coefficient  Not estimated
### Explosive Limits
- Lower Explosion Limit: N/A
- Upper Explosion Limit: N/A

### Flammability
- Auto Ignition Temperature: N/A
- Granulometry: N/A
- Oxidising Properties: N/A

### 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

### Toxicological Information

#### 11.1 Acute toxicity oral (LD50)
- >5000 mg/kg bw (Rat)

#### 11.2 Acute toxicity inhalation
- Not determined

#### 11.3 Acute toxicity dermal (LD50)
- >5000 mg/kg bw (Rabbit)

#### 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.

### 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

### 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 of adhering to necessary technical regulations after consulting concerned authorities
14. TRANSPORT INFORMATION

14.1 Land Transport (ADR/RID/GGVSE)

<table>
<thead>
<tr>
<th>UN Number</th>
<th>Not Regulated</th>
</tr>
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<tbody>
<tr>
<td>DG Class</td>
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</tr>
<tr>
<td>Packing Group</td>
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<tr>
<td>Proper Shipping Name</td>
<td>N/A</td>
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<tr>
<td>Classification Code</td>
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</tr>
<tr>
<td>Hazard Labels</td>
<td>N/A</td>
</tr>
</tbody>
</table>

14.2 Sea Transport (IMDG-Code/GGVSee)

<table>
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<tr>
<th>UN Number</th>
<th>Not Regulated</th>
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<tbody>
<tr>
<td>DG Class</td>
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</tr>
<tr>
<td>Packing Group</td>
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</tr>
<tr>
<td>Proper Shipping Name</td>
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<tr>
<td>Marine Pollutant</td>
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<tr>
<td>Hazard Labels</td>
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</table>

14.3 Air Transport (ICAO-IAT/DGR)

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<thead>
<tr>
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<tr>
<td>Proper Shipping Name</td>
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</tr>
<tr>
<td>Hazard Labels</td>
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</tbody>
</table>

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 3300
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 2

16. OTHER INFORMATION

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

16.2 Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS :</td>
<td>Globally Harmonized System of Classification and labeling of Chemicals</td>
</tr>
<tr>
<td>CAS :</td>
<td>Chemical abstract Service (division of American Chemical society)</td>
</tr>
<tr>
<td>CLP :</td>
<td>Classification, Labelling and Packaging</td>
</tr>
<tr>
<td>LD50 :</td>
<td>Lethal concentration, 50 percent</td>
</tr>
<tr>
<td>EC50 :</td>
<td>Effective concentration, 50 percent</td>
</tr>
<tr>
<td>PNEC :</td>
<td>Predicted No Effect Concentration</td>
</tr>
<tr>
<td>NOAEL :</td>
<td>No Observed Adverse Effect Levels</td>
</tr>
<tr>
<td>ADR :</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Road</td>
</tr>
<tr>
<td>RID :</td>
<td>Regulations Concerning the International Transport of Dangerous Goods by Rail</td>
</tr>
</tbody>
</table>
16.4 Wording of relevant hazard statement and/or precautionary statements referred to in section 2 to 15

Hazard Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xi</td>
<td>IRRITANT</td>
</tr>
</tbody>
</table>

Risk Phrases

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>R38</td>
<td>IRRITATING TO SKIN</td>
</tr>
<tr>
<td>R41</td>
<td>RISK OF SERIOUS DAMAGE TO EYES</td>
</tr>
<tr>
<td>R43</td>
<td>MAY CAUSE SENSITISATION BY SKIN CONTACT</td>
</tr>
<tr>
<td>R62/S3</td>
<td>HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT</td>
</tr>
</tbody>
</table>

Safety Phrases

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S24</td>
<td>AVOID CONTACT WITH SKIN</td>
</tr>
<tr>
<td>S26</td>
<td>IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE</td>
</tr>
<tr>
<td>S37</td>
<td>WEAR SUITABLE GLOVES</td>
</tr>
<tr>
<td>S39</td>
<td>WEAR EYE/FACE PROTECTION</td>
</tr>
</tbody>
</table>

Hazard Statements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>CAUSES SKIN IRRITATION</td>
</tr>
<tr>
<td>H317</td>
<td>MAY CAUSE AN ALLERGIC SKIN REACTION</td>
</tr>
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<td>H318</td>
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<td>TOXIC TO AQUATIC LIFE</td>
</tr>
<tr>
<td>H412</td>
<td>HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS</td>
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</tbody>
</table>

Precautionary Statements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P273</td>
<td>AVOID RELEASE TO THE ENVIRONMENT</td>
</tr>
<tr>
<td>P280</td>
<td>WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION</td>
</tr>
<tr>
<td>P302+32</td>
<td>IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER</td>
</tr>
<tr>
<td>P305+S3+338</td>
<td>IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING</td>
</tr>
<tr>
<td>P333+313</td>
<td>IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION</td>
</tr>
<tr>
<td>P501</td>
<td>DISPOSE OF CONTENTS/CONTAINER TO ... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION).</td>
</tr>
</tbody>
</table>

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.