SAFETY DATA SHEET

TAGETE OIL

Version : SDS/2010/1
Date: 20/08/2013
Revision : 1
Page No. : Page 1 of 6

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>
</tr>
</thead>
<tbody>
<tr>
<td>1022</td>
<td>TAGETE OIL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Index No.</th>
<th>CLP Reference No.</th>
<th>REACH Pre-Registration No.</th>
<th>EC No.</th>
<th>FEMA No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>294-862-7</td>
<td>3040</td>
<td></td>
</tr>
</tbody>
</table>

1.2 Use

Fragrance Application.

1.3 Company / Undertaking Identification

Ultra International B.V.
Malledijk 3H, 3208 LA Spijkenisse, (Loods 12-15), Netherlands
Tel : +3161 6915530  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>Acute Toxicity Oral 5</td>
<td>H303 MAY BE HARMFUL IF SWALLOWED</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 2</td>
<td>H401 TOXIC TO AQUATIC LIFE</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>H411 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       |
| R51/53            | 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:

- Xn HARMFUL
- N DANGEROUS FOR THE ENVIRONMENT

Hazard Statements

- H226 FLAMMABLE LIQUID AND VAPOUR
- H303 MAY BE HARMFUL IF SWALLOWED
- H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
- H315 CAUSES SKIN IRRITATION
- H317 MAY CAUSE AN ALLERGIC SKIN REACTION
- H401 TOXIC TO AQUATIC LIFE
- H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Precautionary Statements

P241 : USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/.../EQUIPMENT
3. COMPOSITION / INFORMATION OF INGREDIENTS

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>Substance Description</th>
<th>Hazardous Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAGETE OIL</td>
<td>This product is 100% essential oil.</td>
<td>LIMONENE (CAS No 7705-14-8) Xi N R10-R38-43-50/53</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BETA OCIMENE (CAS No 3338-55-4) Xn R10-65</td>
</tr>
</tbody>
</table>

CAS No : 8016-84-0  
EC No : 294-862-7  
Botanical Name : Tagetes minuta L.  
Stabilizers : N/A  
Hazard impurities : N/A  
Synonyms : TAGETE OIL Oil, Tagetes  
Index No. : N/A  
CLP Reference No : N/A  
REACH Pre-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
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

<table>
<thead>
<tr>
<th>Skin protection</th>
<th>Eye protection</th>
<th>Body protection</th>
<th>Respiratory protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety gloves</td>
<td>tight safety goggles</td>
<td>Protective clothing</td>
<td>Dust mask</td>
</tr>
</tbody>
</table>

8.3 Environmental exposure controls

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

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>-physical state</td>
<td></td>
</tr>
<tr>
<td>-colour</td>
<td>Yellow orange to red orange</td>
</tr>
<tr>
<td>Odour</td>
<td>Herbaceous, rancid, unpleasant, powerful</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Medium</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point °C</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point °C</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point (Closed Cup) °C</td>
<td>59°C</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>NE</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>0.858 – 0.922 @20°C</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.474 – 1.511 @20°C</td>
</tr>
<tr>
<td>Optical Rotation</td>
<td>Not estimated</td>
</tr>
<tr>
<td>Surface tension</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility</td>
<td>-Water: Insoluble</td>
</tr>
<tr>
<td>-Alcohol</td>
<td>Soluble</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not estimated</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not estimated</td>
</tr>
</tbody>
</table>
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) 3700 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.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
PNEC Oral : Not determined
NOAEL : Not determined
EC50 (48hrs) : Not determined
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
14. TRANSPORT INFORMATION

14.1 Land Transport (ADR/RID/GGVSE)
- UN Number: 1169
- DG Class: 3
- Packing Group: III
- Proper Shipping Name: EXTRACTS, AROMATIC, LIQUID
- Classification Code: 3Y
- Hazard Labels:

14.2 Sea Transport (IMDG-Code/GGVSee)
- UN Number: 1169
- DG Class: 3
- Packing Group: III
- Proper Shipping Name: EXTRACTS, AROMATIC, LIQUID
- Marine Pollutant: Yes
- Hazard Labels:

14.3 Air Transport (ICAO-IAT/DGR)
- UN Number: 1169
- DG Class: 3
- Packing Group: III
- Proper Shipping Name: EXTRACTS, AROMATIC, 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 5000
- 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
16.4 Wording of relevant hazard statement and/or precautionary statements referred to in section 2 to 15

**Hazard Codes**

- **Xn** \(\text{HARMFUL}\)
- **N** \(\text{DANGEROUS FOR THE ENVIRONMENT}\)

**Risk Phrases**

- **R10** \(\text{FLAMMABLE}\)
- **R38** \(\text{IRRITATING TO SKIN}\)
- **R43** \(\text{MAY CAUSE SENSITIZATION BY SKIN CONTACT}\)
- **R65** \(\text{HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED}\)
- **R51/53** \(\text{TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT}\)

**Safety Phrases**

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

**Hazard Statements**

- **H226** \(\text{FLAMMABLE LIQUID AND VAPOUR}\)
- **H303** \(\text{MAY BE HARMFUL IF SWALLOWED}\)
- **H304** \(\text{MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS}\)
- **H315** \(\text{CAUSES SKIN IRRITATION}\)
- **H317** \(\text{MAY CAUSE AN ALLERGIC SKIN REACTION}\)
- **H401** \(\text{TOXIC TO AQUATIC LIFE}\)
- **H411** \(\text{TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS}\)

**Precautionary Statements**

- **P241** \(\text{USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/LIGHTING/...EQUIPMENT}\)
- **P210** \(\text{KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING}\)
- **P 261** \(\text{AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY}\)
- **P301+310** \(\text{IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN}\)
- **P303+361+353** \(\text{IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER}\)
- **P 333+313** \(\text{IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION}\)
- **P 273** \(\text{AVOID RELEASE TO THE ENVIRONMENT}\)
- **P 233** \(\text{KEEP CONTAINER TIGHTLY CLOSED}\)
- **P 280** \(\text{WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION FACE PROTECTION}\)
- **P 331** \(\text{DO NOT INDUCE VOMITTING}\)
- **P 501** \(\text{DISPOSE OFF CONTAINERS TO….. (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION)}\)

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.