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 Pre-Registration No.</th>
<th>EC No.</th>
<th>FEMA No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1014</td>
<td>VETIVERT OIL</td>
<td>8016-96-4</td>
<td>N/A</td>
<td>02-2119738472-37-0000</td>
<td>N/A</td>
<td>282-490-8</td>
<td>N/A</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 6915330  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>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 Irritation 2A</td>
<td>H319  CAUSE SERIOUS EYE IRRITATION</td>
</tr>
</tbody>
</table>

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

R36/38  IRRITATING TO EYES AND SKIN
R43    MAY CAUSE SENSITIZATION BY SKIN CONTACT

2.2 Label Elements

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

Hazard Pictogram / Symbol:

GHS 07

Signal word / Indication(s) of danger:

Danger

Hazard Pictogram / Symbol:

Xi  Irritant

Hazard Statements

H317  MAY CAUSE AN ALLERGIC SKIN REACTION
H319  CAUSE SERIOUS EYE IRRITATION
Precautionary Statements

P303+P361+P353  IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER

P333+P313  IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.

P305+351+338  IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO.

P337+P313  IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION

P 280  WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION FACE PROTECTION

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>VETIVERT OIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.</td>
<td>8016-96-4</td>
</tr>
<tr>
<td>EC No.</td>
<td>282-490-8</td>
</tr>
<tr>
<td>Botanical Name</td>
<td>Vetiveria zizanoides root oil</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>Vetiver Oil Haiti</td>
</tr>
<tr>
<td>Index No.</td>
<td>N/A</td>
</tr>
<tr>
<td>CLP Reference No.</td>
<td>02-2119738472-37-0000</td>
</tr>
<tr>
<td>REACH Pre-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: Light brown to reddish brown

Odour
- Characteristic

Odour Threshold
- Medium

pH
- N/A

Melting Point °C
- N/A

Boiling Point °C
- N/A

Flash Point (Closed Cup) °C
- 116 °C

Vapour Pressure
- N/A

Vapour Density
- N/A

Specific Gravity / Relative Density
- 0.984 – 1.035 @25°C

Refractive Index
- 1.520 – 1.528 @20°C

Partition Coefficient
- N/A

Surface tension
- N/A

Solubility
- Water: Insoluble
- Alcohol: 1:2 in 80% alcohol

Viscosity
- Not estimated
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)
> 5000 mg/kg bw (Rat)

11.2 Acute toxicity inhalation
Not Determined

11.3 Acute toxicity dermal (LD50)
> 5000 gm/kg bw (Rabbit)

11.4 Skin Irritation/Corrosion
N/A

11.5 Respiratory sensitization
N/A

11.6 Skin sensitization
N/A

11.7 CMR Effects
Carcinogenicity: N/A
Mutagenicity: N/A
Toxic to reproduction: N/A

11.8 Eye Irritation / Corrosion
N/A

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 estimated
NOAEL: Not estimated
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
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: Not Regulated
- DG Class: N/A
- Packing Group: N/A
- Proper Shipping Name: N/A
- Classification Code: N/A
- Hazard Labels: N/A

14.2 Sea Transport (IMDG-Code/GGVSee)
- UN Number: Not Regulated
- DG Class: N/A
- Packing Group: N/A
- Proper Shipping Name: N/A
- Marine Pollutant: Yes
- Hazard Labels: N/A

14.3 Air Transport (ICAO-IAT/DGR)
- UN Number: Not Regulated
- DG Class: N/A
- Packing Group: N/A
- Proper Shipping Name: N/A

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 19 10
- 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

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

Xi IRRITANT

Risk Phrases

R36/38 IRRITATING TO EYES AND SKIN
R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT

Safety Phrases

S24 AVOID CONTACT WITH SKIN
S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE
S37 WEAR SUITABLE GLOVES

Hazard Statements

H317 MAY CAUSE AN ALLERGIC SKIN REACTION
H319 CAUSE SERIOUS EYE IRRITATION

Precautionary Statements

P303+P361+P353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER
P333+P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.
P305+351+338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO.
P337+P313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION
P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION FACE PROTECTION
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.