SAFETY DATA SHEET

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

1.1 Product Identifiers

<table>
<thead>
<tr>
<th>Product Code</th>
<th>1051</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>EUGENOL</td>
</tr>
<tr>
<td>CAS No.</td>
<td>97-53-0</td>
</tr>
<tr>
<td>Index No.</td>
<td>N/A</td>
</tr>
<tr>
<td>CLP Reference No.</td>
<td>02-2119658303-41-0000</td>
</tr>
<tr>
<td>REACH Pre-Registration No.</td>
<td>---</td>
</tr>
<tr>
<td>EC No.</td>
<td>202-589-1</td>
</tr>
<tr>
<td>EINECS</td>
<td>N/A</td>
</tr>
<tr>
<td>FEMA No.</td>
<td>2467</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: +3161 8431850   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>Acute Toxicity Oral 5</td>
<td>H303 MAY BE HARMFUL IF SWALLOWED</td>
</tr>
<tr>
<td>Skin corrosion/irritation 3</td>
<td>H316 CAUSE MILD SKIN IRRITATION</td>
</tr>
<tr>
<td>Skin Sensitization 1</td>
<td>H317 MAY CAUSE AN ALLERGIC SKIN REACTION</td>
</tr>
<tr>
<td>Eye Damage/Irritation 2A</td>
<td>H319 CAUSE SERIOUS EYE IRRITATION</td>
</tr>
<tr>
<td>Aquatic Acute Toxicity 2</td>
<td>H401 TOXIC TO AQUATIC LIFE</td>
</tr>
</tbody>
</table>

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

R36   IRRITATING TO EYES
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:

Warning

Hazard Pictogram / Symbol:

Xi   IRRITANT

Hazard Statements

H303 MAY BE HARMFUL IF SWALLOWED
H316 CAUSE MILD SKIN IRRITATION
H317 MAY CAUSE AN ALLERGIC SKIN REACTION
H319 CAUSE SERIOUS EYE IRRITATION
H401 TOXIC TO AQUATIC LIFE
3. COMPOSITION / INFORMATION OF INGREDIENTS

Substance Name: EUGENOL
Substance Description: Aromatic chemical
Hazard components: EUGENOL
CAS No.: 97-53-0
EC No.: 202-589-1
Chemical Name: 4-allyl-2-methoxyphenol
Stabilizers: N/A
Synonyms: Eugenic Acid
Caryophylliac Acid
Index No.: N/A
CLP Reference No.: 02-2119658303-41-0000
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.

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: Colourless to pale yellow

Odour
Spicy

Odour Threshold
Medium

pH
N/A

Melting Point °C
N/A

Boiling Point °C
N/A

Flash Point (Closed Cup) °C
Not estimated

Vapour Pressure
0.009 mm/Hg@20°C

Vapour Density
Not estimated

Specific Gravity /Relative Density
1.066 – 1.070 @ 20°C

Refractive Index
1.540 – 1.542 @ 20°C

Optical Rotation
Not estimated

Surface tension
Not estimated

Solubility
- Water: Insoluble
- Alcohol: 1:2 in 60% alcohol

Viscosity
Not estimated

Partition Coefficient
Not estimated
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) 2680 mg/kg bw (Rat)

11.2 Acute toxicity inhalation Not Determined

11.3 Acute toxicity dermal (LD50) Not Determined

11.4 Skin Irritation/Corrosion Not Determined

11.5 Respiratory sensitization Not Determined

11.6 Skin sensitization Non-sensitizing

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 estimated
NOAEL : Not estimated
ECso (48hrs) : Not estimated
LCso (96hrs) : Not estimated

12.2 Persistence and degradability : Not determined

12.3 Mobility in Soil : Not determined

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 of 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: N/A
    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: 2909 50 20
    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 1

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 IRRITATING TO EYES
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
H303 MAY BE HARMFUL IF SWALLOWED
H316 CAUSE MILD SKIN IRRITATION
H317 MAY CAUSE AN ALLERGIC SKIN REACTION
H319 CAUSE SERIOUS EYE IRRITATION
H401 TOXIC TO AQUATIC LIFE

Precautionary Statements
P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY
P264 WASH .. (HANDS/FACE) THOROUGHLY AFTER HANDLING
P273 AVOID RELEASE TO THE ENVIRONMENT
P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION FACE PROTECTION
P 302+352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER
P305+351+338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES; REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO. CONTINUE RINSING.
P312 CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL
P333+313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P337+313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION
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.