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

1.1	<b>Product Identifiers</b>	<b>Product Code</b> 1051 <b>Product Name</b> EUGENOL <b>CAS No.</b> 97-53-0 <b>Index No.</b> N/A <b>CLP Reference No.</b> 02-2119658303-41-0000 <b>REACH Pre-Registration No.</b> --- <b>EC No.</b> 202-589-1 <b>EINECS</b> N/A <b>FEMA No.</b> 2467
1.2	<b>Use</b>	Use in Flavour / Food Application.
1.3	<b>Company / Undertaking Identification</b>	<b>Ultra International B.V.</b> Malledijk 3H, 3208 LA Spijkenisse, (Loods 12-15), Netherlands Tel : +3161 8431850 Fax : +91-120 - 437 4000 E-mail : <a href="mailto:ultraintl.nl@gmail.com">ultraintl.nl@gmail.com</a> www.ultrainternational.com
1.4	<b>Emergency Telephone</b>	+91-9810008844

## 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance / preparation

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS classification]

#### HAZARD CATEGORY

Acute Toxicity Oral 5  
 Skin corrosion/irritation 3  
 Skin Sensitization 1  
 Eye Damage/Irritation 2A  
 Aquatic Acute Toxicity 2

#### 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

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**

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**Precautionary Statements**

<b>P261</b>	AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY
<b>P264</b>	WASH .. (HANDS/FACE) THOROUGHLY AFTER HANDLING
<b>P273</b>	AVOID RELEASE TO THE ENVIRONMENT
<b>P280</b>	WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION FACE PROTECTION
<b>P302+352</b>	IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER
<b>P305+351+338</b>	IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES; REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO SO. CONTINUE RINSING.
<b>P312</b>	CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL
<b>P333+313</b>	IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
<b>P337+313</b>	IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ ATTENTION
<b>P501</b>	DISPOSE OFF CONTAINERS TO..... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION)

**3. COMPOSITION / INFORMATION OF INGREDIENTS**

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

**4. FIRST AID MEASURES**

**4.1 Description of First Aid Measures**

<b>Eye Contact</b>	:	Remove contact lenses if worn. Flush immediately with plenty of water.
<b>Skin Contact</b>	:	Remove contaminated clothing. Wash affected area with mild soap and water.
<b>Inhalation</b>	:	Remove affected person to fresh air. If discomfort persists, consult physician.
<b>Swallowing</b>	:	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

### 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



Safety gloves

##### Eye protection



tight safety goggles

##### Body protection



Protective clothing

##### Respiratory protection



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
<b>Odour</b>	Spicy
<b>Odour Threshold</b>	Medium
<b>pH</b>	N/A
<b>Melting Point °C</b>	N/A
<b>Boiling Point °C</b>	N/A
<b>Flash Point (Closed Cup) °C</b>	Not estimated
<b>Vapour Pressure</b>	0.009 mm/Hg@20°C
<b>Vapour Density</b>	Not estimated
<b>Specific Gravity /Relative Density</b>	1.066 – 1.070 @ 20°C
<b>Refractive Index</b>	1.540 – 1.542 @ 20°C
<b>Optical Rotation</b>	Not estimated
<b>Surface tension</b>	Not estimated
<b>Solubility</b>	
-Water	Insoluble
-Alcohol	1:2 in 60% alcohol
<b>Viscosity</b>	Not estimated
<b>Partition Coefficient</b>	Not estimated



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EUGENOL

#### 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)	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
EC50 (48hrs)	: Not estimated
LC50 (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 off adhering to necessary technical regulations after consulting concerned authorities

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## 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

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**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**

**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

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**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.