

# **Safety Data Sheet**

# Product Code: ISO-EUG Product Name: Eugenol

Issue date 09-Jun-2016

Revision date 17-Jan-2017

Version 4

1. Identification of the substance | preperation | company | undertaking

Product identifier Product name Eugenol

Other means of identificationProduct codeISO-EUGSynonymsN/ARegistration number(s)N/A

Recommended use of the chemical and restrictions on useRecommended UseIndustry Use.Uses advised againstNo information available

Details of the supplier of the safety data sheet

324 Airport Industrial Dr. Ypsilanti, MI 48198

Emergency telephone numberUse CHEMTREC instead of Emergency Phone Number24 Hour Emergency Phone Number(800) 424-9300Emergency telephoneEmergency telephone

# 2. Hazard Identification

#### Classification\_

Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1B

Label Elements

EMERGENCY OVERVIEW

#### DANGER

#### Hazard Statements:

Causes serious eye irritation May cause an allergic skin reaction

Appearance Ciean Filysical State Liquiu Ouor Characteristic C	Appearance Clear	Physical state Liquid	Odor Characteristic Odor
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#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace
Wear protective gloves/eye protection/face protection **Precautionary Statements - Response**Get medical advice/attention if you feel unwell
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse **Precautionary Statements - Storage**Store in accordance with local regulations
Store in a well-ventilated place
Protect from sunlight

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other Information

- May be harmful if swallowed
- Causes mild skin irritation
- Toxic to aquatic life

0 % of the mixture consists of ingredient(s) of unknown toxicity

#### 3. Composition/information on Ingredients

Chemical	Family
Formula	

Phenols. C10H12O2

Botanical Species	CAS No.	Weight-%
Eugenol	97-53-0	100

#### 4. First Aid Measures

#### Description of first aid measures

Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.	
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration.	
Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# 5. Fire-Fighting Measures

#### Suitable Extinguishing Media

Use CO2, dry chemical, or foam.

Unsuitable extinguishing media .

#### Specific hazards arising from the chemical

No information available.

Hazardous combustion products Irritating or toxic substances may be emitted upon burning, combustion, or decomposition.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures		
Personal precautions, protective equipment and emergency procedures		
Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Stop leak if you can do it without risk.	
Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
Methods and material for containn	nent and cleaning up	
Methods for Containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).	
Methods for cleaning up	Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up and shovel into suitable containers for disposal.	
7. Handling and Storage		
Precautions for safe handling		
Advice on safe handling	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8.	
Conditions for safe storage, inclue	ding any incompatibilities	
Storage Conditions	Protect from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.	
Incompatible materials	None known based on information supplied.	
8. Exposure Controls/Personal Protection		
Control parameters		
Exposure guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
	v entilation eyetemer

# Individual protection measures, such as personal protective equipment

Eye/Face Protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Avoid contact with skin. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Ensure adequate ventilation, especially in confined areas.
General hygiene considerations	Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and Chemical Properties

# Information on basic physical and chemical properties

Physical state Appearance Color	Liquid Clear Colorless to Pale Yellow	Odor Odor threshold	Characteristic Odor Not applicable
Property pH Melting point / freezing point Boiling point / boiling range Flash Point Evaporation Rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor Density Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition Temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties	Values Not applicable 60 °C 255 °C 124 °C / > 212 °F Not applicable Not applicable Not applicable 0.002 Not applicable 1.064 Not applicable Not applicable	<u>Remarks • Method</u>	
Oxidizing properties <u>Other Information</u>	Not applicable		
Softening point Molecular weight VOC content (%) Density Bulk Density	not applicable 164.20 Not applicable Not applicable Not applicable		

# 10. Stability and Reactivity

Reactivity No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### Conditions to avoid

Extremes of temperature and direct sunlight.

#### Incompatible materials

None known based on information supplied.

#### Hazardous Decomposition Products

None known based on information supplied.

#### **11. Toxicological Information**

#### Information on likely routes of exposure

#### Product Information

Inhalation	Avoid breathing vapors or mists.
Eye Contact	Avoid contact with eyes. Severely irritating to eyes.
Skin contact	Avoid contact with skin. May cause an allergic skin reaction. May cause irritation.
Ingestion	May be harmful if swallowed.

#### Information on toxicological effects

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/eye irri	tation Causes seve	re eye irritation.		
Irritation	May cause in	ritation.		
Sensitization	May cause se	ensitization by skin contac	t.	
Germ cell mutagenicity	Not classified	1.		
Carcinogenicity	The table bel	ow indicates whether each	agency has listed any ing	gredient as a carcinogen.
Botanical Species	ACGIH	IARC	NTP	OSHA
Eugenol		Group 3		
97-53-0		-		

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Reproductive toxicityThis product does not contain any known or suspected reproductive hazards above the<br/>threshold value.STOT - single exposureNot classified.STOT - repeated exposureNot classified.Aspiration hazardNot classified.

#### Numerical measures of toxicity - Product Information

Unknown acute toxicity	0 % of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated	based on chapter 3.1 of the GHS document
ATEmix (oral)	2300 mg/kg

### **12. Ecological Information**

#### **Ecotoxicity**

Harmful to aquatic life

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

# Persistence and degradability No information available. Bioaccumulation No information available. Other adverse effects No information available 13. Disposal Considerations Waste treatment methods Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated packaging Do not reuse container.

# **14. Transport Information**

DOT

Not regulated

# **15. Regulatory Information**

#### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories	
Acute Ucelth Hererd	

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### US State Regulations

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

#### U.S. EPA Label information EPA Pesticide registration number Not applicable

 16. Other Information

 Issue date
 09-Jun-2016

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 Revision note
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 No information available
 Disclaimer

 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Classification and labeling according to the IFRA/IOFI Labeling Manual 2016.

End of Safety Data Sheet