

# MATERIAL SAFETY DATA SHEET

This form may be used to comply with OSHA's Hazard Communication Standard. 29 CFR §1910.1200. To be valid, all information required by §1910.1200 (g) of the Standard must appear on this form. Consult the standard for specific requirements. Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

IDENTITY (As Used on Label and List)

Eugenol

Hazard Class:

I

## Section I

Prepared from Standard Reference by :  
Health Career Learning Systems, Inc.

Address (Number, Street, City, State and Zip Code)  
37557 Schoolcraft Road

Livonia, MI 48150

Emergency Telephone Number

Local Fire Department or EMS

Telephone Number for Information

Local Poison Control

Date Prepared

August 1994

Signature of Preparer (optional)

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	% (optional)
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Eugenol

Unk

Unk

Eugenic Acid, Synthetic Eugenol

Caryophylllic Acid

Note: All of the above in Section II are different chemical names for the same material

## Section III - Physical/Chemical Characteristics

Boiling Point	253.5°C	Specific Gravity (H <sub>2</sub> O = 1)	.9
Vapor Pressure (mm Hg.)	Unk	Melting Point	30°C
Vapor Density (AIR = 1)	Unk	Evaporation Rate (Butyl Acetate = 1)	Unk

Solubility in Water

slightly soluble in water; soluble in alcohol, chloroform, ether

Appearance and Odor

Colorless or yellowish liquid, oily, spicy odor.

## Section IV - Fire and Explosion Hazard Data Rating: 1

Flash Point (Method Used) NA	Flammable Limits Unk	LEL Unk	UEL Unk
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Extinguishing Media

Carbon dioxide

Special Fire Fighting Procedures

Unk

Unusual Fire and Explosion Hazards

Unk

<b>Section V - Reactivity Data</b>		Rating: 0	
Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibility (Materials to Avoid)			
Unk			
Hazardous Decomposition or Byproducts			
Unk			
Hazardous Polymerization	May Occur	Unk	Conditions to Avoid
	Will Not Occur	Unk	
<b>Section VI - Health Hazard Data</b>		Rating: 2	
Route(s) of Entry:	Inhalation?	no	Skin? yes
Target Organs: skin			Eyes? yes
			Ingestion? yes
Health Hazards (Acute and Chronic)			
Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes			
Mutagenic data			
Carcinogenicity:	NTP?	no	IARC Monographs? unk
			OSHA Regulated? yes
Signs and Symptoms of Exposure			
skin irritation			
Medical Conditions Generally			
Aggravated by Exposure		Unk	
Emergency and First Aid Procedures			
Contact: Flush with water			
<b>Section VII - Precautions for Safe Handling and Use</b>			
Steps To Be Taken in Case Material Is Released or Spilled			
Unk			
Waste Disposal Method			
Follow Federal, State and local regulations in disposal			
Precautions to Be Taken in Handling and Storing			
Unk			
Other Precautions			
Soluble in alcohol, chloroform, ether and volatile oils.			
<b>Section VII - Control Measures</b>		Rating: 5	
Respiratory Protection (Specify Type)			
NA			
Ventilation	Local Exhaust	NA	Special NA
	Mechanical (General)	NA	Other NA
Protective Gloves	rubber or nitrile gloves		
Eye Protection	safety glasses or goggles		
Other Protective Clothing or Equipment			
NA			
Work/Hygenic Practices			
Unk			