

**Section 1: Identification**

**Product Name** Flavor, Eugenol USP  
**Commercial Name** Not available  
**Product Use** Manufacture of substances  
**Restrictions On Use** Not available

**Product Code** 30-1136

**Company** PCCA  
 9901 South Wilcrest  
 Houston, TX 77099  
 Phone: 1-800-331-2498  
 Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

**Section 2: Hazard(s) Identification**

**OSHA Haz Com:** Eye irritation (Category 2A) Skin sensitisation (Category 1) Acute aquatic toxicity (Category 2)  
**CFR 1910.1200**

**Signal Word** WARNING

**Hazard Statement(s)** May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life.

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

<b>Prevention</b>	P261 Avoid breathing dust/ fume/ gas/ mist/vapours/ spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/face protection.
<b>Response</b>	P302 P352 IF ON SKIN: Wash with plenty of soap and water. P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see supplemental first aid instructions on this label). P333 P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 P313 If eye irritation persists: Get medical advice/ attention. P342 P311 If experiencing respiratory symptoms: Call POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse.
<b>Storage</b>	Not available.
<b>Disposal</b>	P501 Dispose of contents/ container to an approved waste disposal plant.

**Section 3: Composition/Information on Ingredients**

**Substance/Mixture** Substance  
**Components** Eugenol  
**% By Weight** 100  
**CAS#** 97-53-0  
**Molecular Weight** 164.2 g/mole  
**Chemical Formula** C10H12O2  
**Synonym(s)** Hydroxy-1-methoxy-2-allyl-4-benzen 2-Methoxy-4-(2-Propenyl)Phenol 4-Allyl-2-methoxyphenol 4-Allylguaiaicol

Mixtures				
Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Eugenol	97-53-0	100	Not available.	ORAL (LD50):Acute: 1930mg/kg [Rat].3000 mg/kg[Mouse]. 2130mg/kg [Guineapig].

**Section 4: First-Aid Measures**

<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Skin Contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Not available
<b>Delayed</b>	Not available
<b>Immediate Medical Attention</b>	
Not available.	

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**

Carbon oxides

**Firefighters Special Equipment and Precautions**

Wear self contained breathing apparatus for fire fighting if necessary.

**Section 6: Accidental Release Measures**

Personal precautions: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Section 7: Handling and Storage**

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection. Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Not available.
<b>Engineering Controls</b>	Not available.
<b>Personal Protection</b>	Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Eye protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Liquid. Colorless to pale yellow		
<b>Odor</b>	Clove-like, pungent		
<b>Odor Threshold</b>	Not established		
<b>Melting Point</b>	-11	<b>pH</b>	Not available
<b>Freezing Point</b>	Not available	<b>Vapor Pressure</b>	0.1
<b>Boiling Point/Range</b>	252	<b>Vapor Density</b>	>1
<b>Decomposition temperature</b>	Not available	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	log Pow: 2.7	<b>Evaporation Rate</b>	Not available
<b>Flash Point</b>	CLOSED CUP: >200°F	<b>Autoignition temperature</b>	Not available
<b>Flammability</b>	Not available	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available
		<b>Upper</b>	Not available
<b>Solubility(ies)</b>	Slight		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Hazardous Polymerization</b>	None
<b>Conditions to Avoid</b>	Air
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides

**Section 11: Toxicological Information**

<b>RTECS</b>	SJ4375000
<b>Acute Toxicity</b>	
LD50 Oral - Rat - > 2,000 mg/kg	
<b>Skin Corrosion/Irritation</b>	
No skin irritation	
<b>Serious Eye Damage/Irritation</b>	
Irritating to eyes	
<b>Respiratory or Skin Sensitization</b>	
May cause allergic skin reaction	
<b>Germ Cell Mutagenicity</b>	
Rat Liver DNA damage Mouse lymphocyte Mutation in mammalian somatic cells. Hamster Embryo Unscheduled DNA synthesis Hamster Embryo Morphological transformation. Hamster Embryo Sister chromatid exchange Mouse Micronucleus test	
<b>Carcinogenicity</b>	
Carcinogenicity-mouse-oral Tumorigenic : Equivocal tumorigenic agent by RTECS criteria. Liver:Tumors	
<b>Reproductive Toxicity</b>	
Not available	
<b>Routes of Entry</b>	
Eye contact. Inhalation. Ingestion.	
<b>Symptoms Related to Exposure</b>	
Not available.	



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

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### Potential Health Effects

Not available

**Target Organ(s)** Not available.

### Section 12: Ecological Information

#### Ecotoxicity

Toxicity to fish LC50 - Danio rerio (zebra fish) - 13 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia EC50 - Daphnia (water flea) - 1.13 mg/l - 48 h and other aquatic invertebrates

#### Persistence and Degradability

Not available.

#### Bioaccumulative Potential

Not available.

#### Mobility in Soil

Not available.

#### Other Adverse Effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

### Section 13: Disposal Considerations

#### Waste Disposal

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

#### Disposal of Container

Dispose of as unused product

#### Other Considerations

Not available.

### Section 14: Transport Information

#### DOT Classification

DOT Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

### Section 15: Regulatory Information

#### Regulations

OSHA Hazards Target Organ Effect, Harmful by ingestion, Corrosive SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Eugenol CAS-No. 97-53-0 Revision Date New Jersey Right To Know Components Eugenol CAS-No. 97-53-0 Revision Date California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Other

WHMIS CLASS D-2A: Material causing other toxic (Canada) effects (VERY TOXIC); DSCL (EEC) R22- Harmful if swallowed. R36/38- Irritating to eyes and skin.; Gloves.; Lab coat.; Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.; Splash goggles.

### Section 16: Other Information



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