

1: Identification

Product Name : FT-Methyl Eugenol
Chemical Name : 1,2-Dimethoxy-4-(prop-2-en-1-yl)benzene
Synonyms : Methyl Eugenol
Product Use : Insect Attractant
Company : Farma Tech international Corporation
 1546 Boalch Ave NW, Suite 30
 North Bend, WA 98029
Telephone : +1.425.396.1050

2: Hazard(s) Identification

Hazard Classification : Acute Toxicity (oral), Hazard Category 4; H302
 Skin Irritation, Hazard Category 2; H315
 Eye Irritation, Hazard Category 2A; H319
 Germ Cell Mutagenicity, Hazard Category 2; H341
 Carcinogenicity, Hazard Category 2; H351
 Aquatic Toxicity (acute), Hazard Category 2, H401
 Aquatic Toxicity (chronic), Hazard Category 2, H411

Signal Word(s) : **Warning**

Hazard Statements : H302: Harmful if swallowed
 H315: Causes Skin Irritation
 H319: Causes Serious Eye Irritation
 H341: Suspected of causing genetic defects
 H351: Suspected of causing cancer
 H401: Toxic to aquatic life
 H411: Toxic to aquatic life with long lasting effects

Symbols :



Precautionary Statements : P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P264: Wash skin thoroughly after handling.
 P270: Do not eat drink or smoke when using this product.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection and wash all contaminated clothing thoroughly after handling.
 P301+P312+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth
 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.
 P308+P313: IF exposed or concerned: Get medical advice/attention.
 P332+P313: IF skin irritation occurs: Get medical advice/attention.
 P337+P313: IF eye irritation persists: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P391: Collect spillage.
 P405: Store locked up.
 P501: Dispose of contents/container to an approved waste disposal plant.

Description of Other Hazards : Vapor can cause irritation

3. Composition/Information on Ingredients

Chemical Name	Synonym	CAS	EC/EINECS	Concentration(%wt)
1,2-Dimethoxy-4-(prop-2-en-1-yl)benzene	Methyl Eugenol	93-15-2	202-223-0	98%
Other ingredients				2%

4. First-Aid Measures

- After Skin Contact** : Wash hands thoroughly after handling. Rinse skin immediately with plenty of water for 15 to 20 minutes. If irritation occurs seek medical advice. Take off contaminated clothing and wash before reuse. Call a poison control center or doctor for treatment advice.
- After Eye Contact** : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing the eye. Rinse longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If irritation occurs or concerned call a poison control center or doctor for further treatment advice.
- After Inhalation** : If adverse effects are felt, move person to fresh air. If breathing is difficult give oxygen. If not breathing, give artificial respiration. If symptoms persist get medical attention. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
- After Swallowing** : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless directed to do so by medical personnel. Do not give anything by mouth to an unconscious person. Have the product container, label, or SDS with you when calling a Poison Control Center, doctor, or going for treatment. You can reach a local Poison Control Center at 1-800-222-1222, for emergency medical treatment information.

5. Fire Fighting Measures

- Suitable Extinguishing Agents** : In case of fire, use water, CO₂ or dry powder. Do not use water jet. Combustion products include carbon monoxide and carbon dioxide.
- Suitable Protective Equipment for Firefighters** : Wear self contained breathing apparatus and protective clothing. Be sure to use an approved / certified respirator or equivalent.

6. Accidental Release Measures

- Personal Precautions** : Workers must wear long pants, long-sleeve shirt, gloves, shoes and socks.
- Measures for Environmental Protection** : Clean up spills immediately, using the appropriate protective equipment.
- Measures for Cleaning/Collecting** : Absorb spilled material with dry inert material, (e.g., dry sand or earth), then place into a chemical waste container. Remove all sources of ignition. Provide ventilation.

7: Handling and Storage

- Handling** : Do not open packaging until time of use. Wear suitable protective clothing, gloves and eye/face protection. Do not eat, drink or smoke when handling the product. In case of insufficient ventilation wear suitable respiratory equipment. Refillable Container: Refill this container with FT-Methyl Eugenol Only. Do not reuse this container for any other purpose.
- Storage** : Keep only in original packaging and store in a cool, dry, well ventilated area. Protect from ignition sources. Avoid contact with high temperatures, acids, bases or prolonged contact with air. Store away from heat and out of direct sunlight. Avoid moisture. Provide means or controlling leaks or spills. Keep out of reach of children.

8: Exposure Controls/Personal Protection

- General Protective and Hygienic Measures** : Wear appropriate protective clothing to prevent skin exposure. Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day.
- Breathing Equipment** : Wear appropriate respirator when ventilation is inadequate.
- Protection of Hands** : Wear appropriate protective gloves to prevent skin exposure.
- Eye Protection** : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

9: Physical and Chemical Properties

- Appearance** : Clear colorless to pale yellow liquid
- Odor** : Spicy, earthy-clove, carnation like, sweet
- Odor Threshold** : No Data Available
- pH** : No Data Available
- Melting Point/Freezing Point** : -4°C
- Boiling Point/Boiling Range** : 254.7°C @ 760 mm of Hg
- Flash Point** : >100°C
- Evaporation Rate** : No Data Available
- Flammability (solid, gas)** : No Data Available
- Upper/Lower Flammability or Explosive Limits** : No Data Available
- Vapour Pressure** : 0.027
- Vapour Density** : 1.055g/cm³
- Relative Density** : 1.036 g/cm³ @ 25°C
- Solubility(ies)** : Soluble in alcohol, Solubility in water: <0.1 g/l @ 19°C
- Partition Coefficient N-Octanol/Water** : No Data Available
- Auto-Ignition Temperature** : No Data Available
- Decomposition Temperature** : No Data Available
- Viscosity** : No Data Available

10: Stability and Reactivity

- Reactivity** : Stable under normal temperature and pressure conditions.
- Chemical Stability** : May slowly oxidize on exposure to air.
- Conditions to Avoid** : Stable under normal temperature and pressure conditions.
- Incompatible Materials** : Strong acids, strong oxidizing agents.
- Hazardous Decomposition Products** : Carbon monoxide, carbon dioxide. (CO, CO₂)

11: Toxicological Information

Acute Toxicity : LD50 Oral – Rat – 810mg/kg
LC50 Inhalation – Rat – >4800 mg/m3

Potential Routes of Exposure/Potential Health Effects

Skin	: May cause sensitization by skin contact (irritant)
Eye	: There may be irritation and redness
Inhalation	: May cause respiratory irritation
Ingestion	: No Data Available
Carcinogenic Effects	: Limited evidence of carcinogenicity in animal studies NTP: Anticipated human carcinogen IARC: 2B – Group 2B: Possibly carcinogenic to humans (4-Allylveratrole) ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Mutagenic Effects	: Suspected of causing genetic defects. Chromosome aberration test in vitro Result: positive
Reproductive Toxicity	: No Data Available
Sensitization	: No Data Available
Target Organs	: No Data Available

12: Ecological Information

Environmental Hazards : Keep out of lakes, streams and ponds. Do not contaminate water by cleaning of equipment or disposal of waste. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Ecotoxicity : Toxicity to fish -
LC50 – Oncorhynchus mykiss (rainbow trout) – 6.9 mg/l – 48 h
LC50 – Lepomis macrochirus (Bluegill sunfish) – 8.1 mg/l – 96 h

Persistence and degradability : No Data Available

Bioaccumulative potential : No Data Available

Mobility in soil : No Data Available

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13: Disposal Considerations

Product Disposal : Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal : Refillable container may be disposed of in a sanitary landfill, by incineration, or offered for recycling after the following steps have been taken, (1) Rinse container by filling container 1/4 full with water and shaking well then emptying rinsate into a mix tank or rinsate collection system. (2) Repeat step 1 two more times.

Liquid should be collected and disposed of in accordance with local, state or national legislation

14: Transport Information

DOT (US) : Not Dangerous Goods **IATA** : Not Dangerous Goods
UN Number : 3082
Class : 9
UN proper shipping name : Environmentally Hazardous Substance, Liquid, N.O.S. (4-Allylveratrole)
Transport Hazard Class(es) : Non-Hazardous
Packing Group : III
Marine Pollutant : Yes
Special Precautions : No Data Available

15: Regulatory Information

- California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)** : Methyl Eugenol: Avoid contamination of soil, water sources and sewers.
- SARA Title III SARA Sections 311/312 Hazardous Categories (40 CFR 370.21)** : Methyl Eugenol: Acute: Yes; Chronic: No; Fire: No; Reactive: No; Sudden Release: No
- California Proposition 65** : Methyl Eugenol: Known to the State of California to cause the following: Cancer (Nov 16, 2001)
- Listed on TSCA Inventory** : Yes
- Subject to EPCRA Section 313** : Yes
- US EPA Registration No.** : 81325-2

This chemical may only be used for i) the survey and detection of fruit flies (40 CFR §152.10(b)), or ii) as a chemical pesticide registered by the Environmental Protection Agency for Manufacturing Use Only. In the latter case, it is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below.

- FIFRA Signal Word** : CAUTION
- Hazards to Humans and Domestic Animals** : Harmful if swallowed or absorbed through skin. Causes moderate eye irritation: Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco.
- Precautionary Statements** : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Workers and Applicators must wear chemical resistant gloves while mixing and/or when handling this product.

16: Other Information

- Danger/Hazard Symbol** :  **Xn – Harmful**  **Xi – Irritant**

- EC Risk and Safety Phrases** :
- | | |
|-----------|---|
| R22 | Harmful if swallowed |
| R36/37/38 | Irritating to eyes, respiratory system and skin |
| R40 | Limited evidence of a carcinogenic effect |
| S2 | Keep out of reach of children |
| S20/21 | Do not eat, drink or smoke when handling the product |
| S28 | Wash hands thoroughly after handling |
| S36/37/39 | Wear suitable protective clothing, gloves and eye/face protection |
| S38 | In case of insufficient ventilation wear suitable respiratory equipment |

If further safety data is required, please contact Farma Tech International Corporation at +1 (425)-369-1050

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The information on this safety data sheet is believed to be accurate but does not claim to be all inclusive. This document is intended only as a guide to the appropriate precautions for handling a chemical by a person trained in chemical handling. Farma Tech International Corporation makes no warranties of merchantability or any other warranties, express or implied with respect to such information or the product to which it relates, and assumes no liability resulting from the use or handling of the product to which this safety data sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.