

Material Safety Data Sheet

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Eugenol

INCI Name: Eugenol

CAS No.: 97-53-0

Molecular Formula: C₁₀H₁₂O₂

Molecular Weight: 164.20 g/mol

Chemical Name: 4-Allyl-2-methoxyphenol

Recommended Use: Aroma chemical, fragrance ingredient, cosmetic raw material

Origin: India

Supplier: Botanic Planet Canada Inc.

Address: 2 Bram Crt Unit # 3-4 Brampton, Ontario, Canada

Telephone number: 905-455-4444

Emergency phone number (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

SECTION 2 – HAZARD IDENTIFICATION

GHS Signal Word: WARNING



Classification

Hazard Statement

Acute Toxicity – Oral, Category 4 H302 – Harmful if swallowed

Skin Irritation, Category 2 H315 – Causes skin irritation

Skin Sensitization, Category 1 H317 – May cause an allergic skin reaction

Serious Eye Irritation, Category 2 H319 – Causes serious eye irritation

Eugenol is also a recognized fragrance allergen, making concentration and labeling important when it is incorporated into finished cosmetic and fragrance products.

Precautionary Statements: Avoid breathing mist/vapour. Avoid contact with skin and eyes. Wear protective gloves and eye protection. Wash thoroughly after handling. Do not eat, drink or smoke while handling.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Concentration
Eugenol	97-53-0	≥98%

SECTION 4 – FIRST-AID MEASURES

Eye Contact: Immediately rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical advice if irritation or allergic reaction develops.

Inhalation: Move person to fresh air and keep comfortable for breathing. Seek medical attention if symptoms persist.

Ingestion: Rinse mouth. Do not induce vomiting unless instructed by medical personnel. Contact a physician or poison centre if swallowed.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO₂), alcohol-resistant foam or water spray.

Specific Hazards: Combustible organic liquid. Heating may produce irritating or hazardous vapours.

Hazardous Combustion Products: Carbon monoxide and carbon dioxide.

Firefighters should wear suitable protective equipment and self-contained breathing apparatus where necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Wear protective gloves, protective clothing and eye protection. Ensure adequate ventilation.

Remove ignition sources. Prevent material from entering drains and waterways.

Absorb spills with inert material such as sand, vermiculite or other suitable absorbent. Transfer collected material to a suitable closed container for disposal.

SECTION 7 – HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing. Avoid breathing vapours or mist. Wash thoroughly after handling.

Keep container tightly closed.

Store in a cool, dry, well-ventilated location, protected from direct sunlight, excessive heat and incompatible materials.

Keep away from ignition sources and strong oxidizing agents.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Protection	Recommendation
Eye Protection	Safety glasses or chemical splash goggles
Hand Protection	Chemical-resistant protective gloves
Skin Protection	Suitable protective clothing
Respiratory Protection	Normally not required with adequate ventilation; use suitable protection if vapour/mist exposure is significant
Ventilation	Adequate general or local exhaust ventilation
Hygiene	Wash hands thoroughly after handling

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Information
Physical State	Liquid
Appearance	Clear, colorless to pale yellow liquid
Odor	Strong characteristic clove-like, spicy odor
Molecular Formula	$C_{10}H_{12}O_2$
Molecular Weight	164.20 g/mol
Specific Gravity @ 20°C	Approx. 1.064–1.070*
Refractive Index @ 20°C	Approx. 1.539–1.542*
Water Solubility	Slightly soluble
Alcohol Solubility	Soluble
Boiling Point	Approx. 254°C
Flash Point	Approx. 110°C (closed cup; method/source dependent)
Vapor Pressure	Low at room temperature

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Excessive heat, flames, sparks, prolonged exposure to air and direct sunlight.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide may form during combustion.

Hazardous Polymerization: Not expected under normal conditions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Ingestion, skin contact, eye contact and inhalation of vapour/mist.

Acute Effects: Harmful if swallowed. May cause skin and eye irritation.

Sensitization: Eugenol may cause an allergic skin reaction in susceptible individuals.

Repeated exposure may increase the likelihood of sensitization in sensitive persons.

SECTION 12 – ECOLOGICAL INFORMATION

Avoid uncontrolled release into the environment.

Do not discharge concentrated material into drains, soil, groundwater or surface water.

Complete product-specific ecological data should be obtained from the original manufacturer where required.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of product, contaminated absorbents and packaging in accordance with applicable municipal, provincial and federal regulations.

Do not dispose of concentrated Eugenol directly into drains or natural waterways.

SECTION 14 – TRANSPORT INFORMATION

Transport classification can depend on concentration, package size, jurisdiction and the manufacturer's specific classification.

For the commercial product:

UN Number: Verify against manufacturer SDS

TDG: Verify before shipment

IATA: Verify before air shipment

IMDG: Verify before marine shipment

Do not assign a dangerous-goods shipping classification solely from this draft SDS.

SECTION 15 – REGULATORY INFORMATION

Eugenol is widely used as a fragrance ingredient but is subject to fragrance-allergen disclosure requirements in various jurisdictions.

For cosmetic and perfumery applications, the finished-product manufacturer must evaluate:
IFRA restrictions • EU fragrance-allergen requirements • Canadian cosmetic requirements • applicable workplace/WHMIS requirements

The permitted concentration depends on the finished-product category and applicable regulatory requirements.

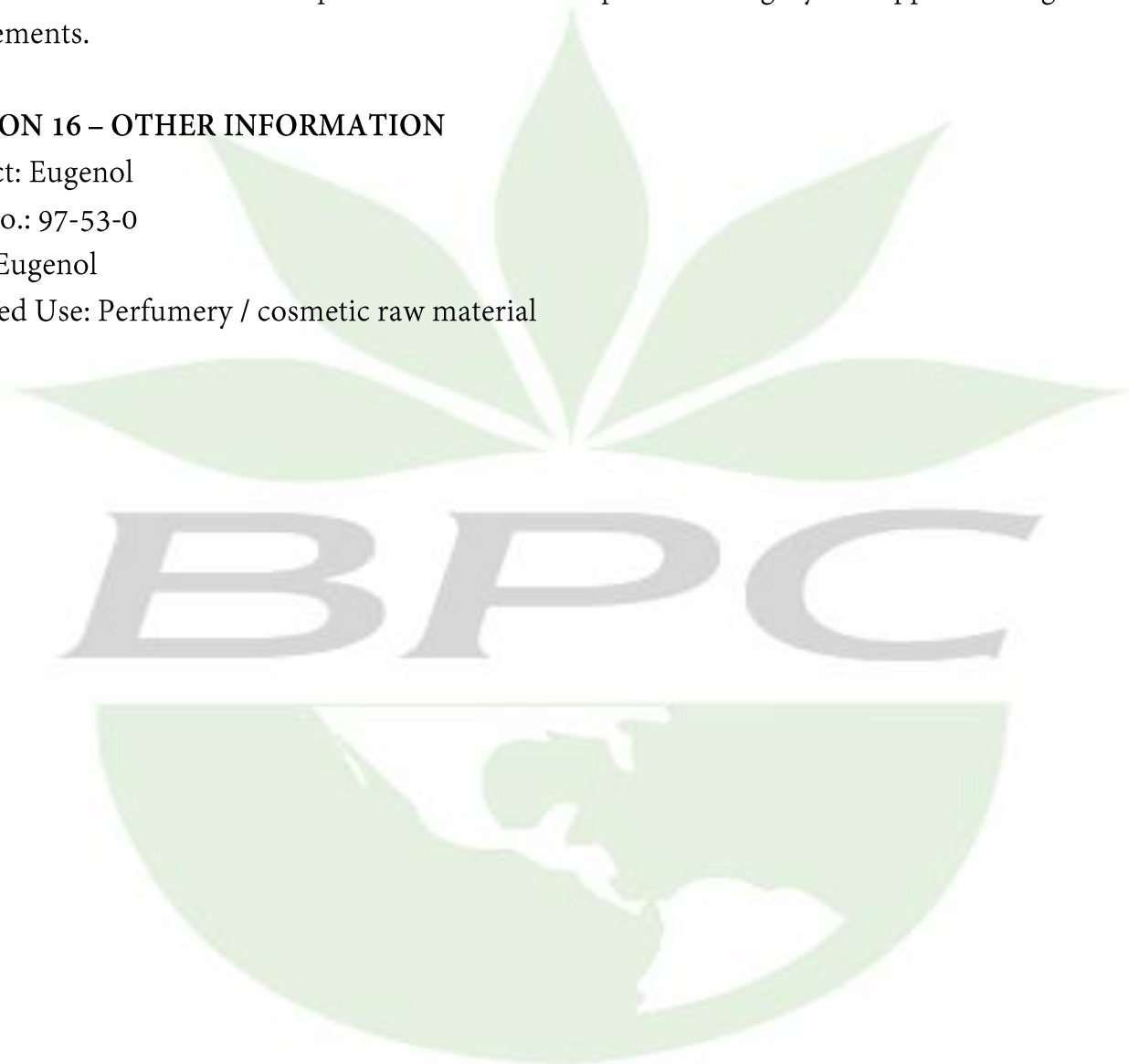
SECTION 16 – OTHER INFORMATION

Product: Eugenol

CAS No.: 97-53-0

INCI: Eugenol

Intended Use: Perfumery / cosmetic raw material



This product is a 100% pure and natural. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge and specifications. The analysis and statements herein constitute the most complete information available to Botanic Planet Canada Inc. Please refer to all relevant technical information specific to the product, prior to use. This information contained in this material safety Data sheet is obtained from current and reliable sources. As an ordinary or otherwise user(s) of this product is outside the control of Botanic Planet Canada Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use (s) (including damages or injury) or any obtained. Botanic Planet Canada Inc. expressly disclaims responsibility as to the ordinary or otherwise uses. Furthermore, Botanic Planet Canada Inc. makes no claims as to the fitness for any use, and you should consider nothing container herein as a recommendation. The Liability of botanic Planet Canada Inc. is limited to the value of the goods and does not include any consequential loss. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario Canada.

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