

01. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

Product Name	Clove Leaf
Biological Definition	Essential oil derived from Syzygium aromaticum. Product information is prepared from current reliable sources and typical essential oil data.
INCI Name	Eugenia Caryophyllus Leaf Oil
Botanical Name	Syzygium aromaticum
Country of Origin	India
Product Use	Domestic and Industrial
Synonyms and Trade Names	Clove Leaf
Supplier	West Coast Aromatics
Supplier Address	2701 Conestoga Dr Unit 106, Carson City, NV 89706, USA
Telephone	775-387-3000
Emergency Phone	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY
CAS Number	8000-34-8/84961-50-2
EC / EINECS Number	284-638-7

02. HAZARDS IDENTIFICATION

Signal: Warning



Emergency Overview	Handle as an aromatic essential oil. Avoid skin and eye contact. Avoid release to the environment.
GHS Classification	Acute Toxicity, Oral - Category 5; Aspiration Hazard - Category 1; Acute Toxicity, dermal - Category 5; Skin corrosion/irritation - Category 3; Skin Sensitization - Category 1; Serious eye damage/eye irritation - Category 2A; Hazardous to aquatic environment - Acute - Category 2
Contains	Naturally occurring constituents may include terpene alcohols, esters, monoterpenes, and trace aromatic components.
Supplementary Precautionary Statements	Use good industrial hygiene practices.
PBT or vPvB	This product is not expected to meet PBT or vPvB criteria based on available information.
Hazard statement(s)	H303 May be harmful if swallowed H304 May be fatal if swallowed and enters airways. H313 May be harmful in contact with skin. H316 Causes mild skin irritation H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H401 Toxic to aquatic life.
Precautionary statement(s)	P261 Avoid breathing dust/fumes/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/ P352 IF ON SKIN: Wash with plenty of water. P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P312 Call a POISON CENTER/ doctor/if you feel unwell.

03. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS	EC	Concentration	Classification
Eugenia Caryophyllus Leaf Oil	8000-34-8/84961-5 0-2	284-638-7	100%	Acute Toxicity, Oral - Category 5; Aspiration Hazard - Category 1; Acute Toxicity, dermal - Category 5; Skin corrosion/irritation - Category 3; Skin Sensitization - Category 1; Serious eye damage/eye irritation - Category 2A; Hazardous to aquatic environment - Acute - Category 2

04. FIRST AID MEASURES

General Information	See categories below.
Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists.
Eye Contact	Flush with plenty of water and seek medical advice if necessary.

05. FIRE FIGHTING MEASURES

Extinguishing Media	Use CO2, dry powder or foam type extinguishers. Do not use direct water jet on burning material.
Unsuitable Extinguishing Media	Do not use direct water jet on burning material.
Special Fire Fighting Procedures	Wear protective clothing. Avoid inhalation of vapors.
Specific Hazards	Closed containers may build up pressure when exposed to heat.
Protective Measures in Fire	Cool exposed containers with water spray.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and other unidentified organic compounds may be formed.

06. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Maintain good occupational and personal hygiene. Avoid contact with skin and eyes.
Environmental Precautions	Do not discharge directly into drains, soil, or waterways.
Spill Clean Up Methods	Absorb with sand or inert material and transfer to suitable waste container.
Containment Methods	Contain spill with inert absorbent and collect for disposal.

07. HANDLING AND STORAGE

Usage Precautions	Apply good manufacturing practice and industrial hygiene practices. Ensure proper workplace ventilation.
Storage Precautions	Store in tightly closed original container in a cool, dry, ventilated area away from heat and protected from light.

08. EXPOSURE CONTROLS / PERSONAL PROTECTION



Engineering Measures	Ensure good ventilation of working area.
Respiratory Equipment	Use suitable respiratory equipment if ventilation is insufficient.
Hand Protection	Use chemically resistant gloves.
Eye Protection	Use safety glasses or tightly sealed goggles.
Other Protection	Protective clothing as required.
Hygiene Measures	Wash hands with soap and water after handling.

Substance	OSHA	ACGIH	STEL	California Prop65
Clove Leaf	Not Established	Not Established	Not Established	Not Established

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless to pale yellow liquid.
Color	Colorless to pale yellow liquid.
Odor	Characteristic woody , spicy, sweet scent.
Boiling Point	Estimated: greater than 35 C.
Flash Point	130 degrees C
Relative Density	Estimated range: 1.041 to 1.046 @ 25 degrees C
Solubility in Water	Insoluble in water.
Solubility Other	Soluble in alcohol and oils.
Refractive Index	Estimated range: 1.534 to 1.537 @ 20 degrees C
Optical Rotation	Estimated range: -2 degrees to 0 degrees @ 25 degrees C

10. STABILITY AND REACTIVITY

Reactivity	This material presents no significant reactivity hazard under normal conditions.
Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Avoid heat, sparks, open flames, and direct light.
Material to Avoid	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and other unidentified organic compounds may be formed during combustion.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	No complete product-specific acute toxicity data available.
Skin corrosion / irritation	May cause skin irritation in susceptible individuals.
Serious eye damage / irritation	May cause eye irritation.
Respiratory or skin sensitization	May cause an allergic skin reaction in sensitized individuals.
Carcinogenicity	None of the components are expected to be listed as carcinogens except trace constituents where regulated.
Chronic Toxicity	Repeated exposure may cause allergic skin reaction in sensitive individuals.
Oral LD50	Not available.
Inhalation LD50	Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid release to the environment. Essential oils may be harmful to aquatic organisms.
Mobility	No product-specific data available.
Persistence and Biodegradability	No product-specific data available.
Bioaccumulation Potential	No product-specific data available.
PBT Assessment Results	This product is not expected to meet PBT or vPvB criteria based on available information.
Precautions	Prevent entry into sewers, drains, surface water, or groundwater.

13. DISPOSAL CONSIDERATIONS

Disposal Methods	Dispose of contents and container in accordance with local, state, provincial, and federal regulations.
-------------------------	---

14. TRANSPORT INFORMATION

Proper Shipping Name	Not regulated
UN Number Road	Not regulated
UN Number Sea	Not regulated
UN Number Air	Not regulated

15. REGULATORY INFORMATION

EU Directives	Regulation (EC) No 1907/2006 and related amendments where applicable.
US Federal Regulations	Applicable U.S. inventory and workplace hazard communication requirements.
California Proposition 65	This product may contain naturally occurring trace constituents listed by the State of California. Review the current constituent profile for product-specific Prop 65 assessment.
Canada Regulations	Applicable Canadian inventory requirements where relevant.
Statutory Instruments	Applicable hazard information and packaging frameworks.
Approved Code of Practice	Classification, labeling, and SDS guidance for substances and preparations.
Guidance Notes	Applicable workplace exposure limits and industrial hygiene guidance.

16. OTHER INFORMATION

Risk Phrases in Full	Not applicable under current GHS format.
Hazard Statements in Full	Physical, chemical, toxicological, and ecological values are based on current reliable source data and typical product profiles.
Other Information	Complies with internal SDS formatting guidance.
Other Classification	Values are provided as typical estimates for documentation purposes and are not a lot-specific laboratory result.
Disclaimer and Caution	Please refer to all relevant technical information specific to the product prior to use. The information contained in this document is obtained from current and reliable sources and is provided to the best of our knowledge. West Coast Aromatics provides the information contained herein but makes no representation as to its comprehensiveness or accuracy for every customer application. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products.