



273 St. Zotique E.,
Montréal, Québec H2S 1L4
www.coopcoco.ca
514-270-0539

SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Product name	Clove Essential Oil
Synonyms and other names	Botanical Name: Eugenia caryophyllata
Recommended uses	Clove Essential Oil has a number of wide-ranging applications and uses, including aromatherapy and scenting candles. Its spicy aroma makes it an excellent natural fragrance to add to soaps, massage oils, natural perfumes, salves, as well as to homemade cleaning products. Be aware that this essential oil is dermocaustic, even when used in small quantities. We suggest a maximum usage rate of 1%.
Material uses	Clove essential oil has been known to cause skin irritation in sensitive individuals. All essential oils should be used only after being diluted in a carrier oil. Do not take internally unless under the direct supervision of a qualified practitioner. Always perform a small patch test (with the diluted essential oil) before using on skin, to check for compatibility. We strongly advise caution when using essential oils around children and pregnant women.
Supplier	Coop Coco & Calendula 273 Rue Saint-Zotique E, Montréal, QC H2S 1L4
Emergency number	Poison control Centre: 1-800-463-5060

SECTION 2 - HAZARDS IDENTIFICATION

Product classification (WHMIS 2015)	Not regulated
Hazards information	Not applicable.
Other information	Not applicable.

SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical denomination (INCI)	Clove bud essential oil
CAS number	8000-34-8
Content	beta-caryophyllene 6,6%, alpha-humulene 0,8%, eugenol 78,4%, eugenyle acetate 10,8%
Additional information	Not applicable.



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SECTION 4 - FIRST AID MEASURES

Eye contact	Contact with eyes can produce burning sensation. Irrigate with water immediately, continue flushing eyes with water for 15 minutes. Seek medical attention if irritation persists.
Skin contact	Skin contact can produce irritation or itching of the skin. Remove contaminated clothing. Wash with soap and plenty of water. Seek medical attention if irritation persists.
Inhalation	Remove affected person to fresh air. Give oxygen if breathing is labored and seek medical advice. Signs of over-exposure are dizziness and nausea.
Ingestion	Rinse mouth; dilute with milk or water and consult a physician immediately. Do not induce vomiting. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

SECTION 5 - FIRE AND EXPLOSION DATA

Fire extinguishing procedures	Extinguishing media : Carbon dioxide, dry chemical or foam. Determine the need to evacuate or isolate the area according to your local emergency plan.
Special remarks on fire/explosion hazards	Closed containers may build up pressure at elevated temperature.
Fire fighting protective equipment and instructions	Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.
Combustion product	Carbon monoxide, Carbon dioxide. Produces acid fumes and carbon monoxide smoke when heated to decomposition.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Protective clothing in case of spill and leak	Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8. Eliminate all ignition sources. Ventilate area. Determine the need to evacuate or isolate the area according to your local emergency plan.
Environmental precautions	Keep away from drains, surface and ground water. Report spills to appropriate authorities if required.
Methods and material for containment and cleaning up	Contain and collect with inert absorbent material and place in suitable container for disposal. Comply with all federal, provincial and local regulation. Wipe small spills with cloth. Clean with hot water and detergent.

SECTION 7 - HANDLING AND STORAGE

Handling precaution	Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.
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Storage precaution Containers should be kept closed in order to minimize contamination. Store in a cool, dry, well-ventilated place protected from light. Keep away from extreme heat and from freezing conditions and away from all sources of ignition. Make sure the material does not come into contact with substances listed as "Materials to avoid". (See section 10)

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits Not available

Engineering controls Not available

Personal protection :

Inhalation In well-ventilated areas, respiratory protection is not normally required. In confined, poorly ventilated areas the use of NIOSH-approved respiratory protection normally required (use only if trained in proper use and with acceptable oxygen level).

Skin Using chemical-resistant gloves and clothing is recommended.

Eye The use of safety glasses is recommended. If a material is to be handled in a manner in which splashing may occur, the use of splash goggles or face shield is recommended.

Other personal protective equipment An eyewash fountain and/or safety shower should be available in the area. Acceptable industrial hygiene practices should be maintained.

Note These precautions are for room-temperature handling. Use at elevated temperature or aerosol/spray applications may require additional precautions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Pale yellow to brown liquid

Odor Characteristic spicy odor

Odor threshold Not available.

pH Not available.

Melting Point Not available.

Boiling Point Not available.

Flash point >100°C

Evaporation rate Not available.

Flammability Combustible liquid.



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Flammable limits	Not available.
Vapor pressure	Not available.
Vapor density (AIR = 1)	1.042 – 1.063 g/mL
Relative density	Not available.
Solubility	Soluble in alcohol and oils. Insoluble in water.
Water/oil dist. coeff.	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

SECTION 10 - STABILITY AND REACTIVITY DATA

Stability	Chemically stable. This material presents no significant reactivity hazard.
Reactivity	Not available.
Possibility of hazardous reactions	Not available.
Conditions of instability	Avoid sparks, flame and excessive heat.
Materials to avoid	Strong oxidizing agents.
Decomp. products	See section 5 (Combustion product)

SECTION 11 - TOXICOLOGICAL INFORMATION

Routes of entry	Contact with eye and skin. Inhalation and ingestion.
Acute effects	No data currently available.
Eye	May irritate eyes.
Skin	Repeated or prolonged contact can cause redness, irritation and scaling of skin (dermatitis).
Inhalation	Inhalation of high concentration of vapor may result in eye irritation.
Ingestion	Low order toxicity causing irritation of the stomach and intestines, resulting in nausea and vomiting.



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Chronic effects May aggravate dermatitis, psoriasis and other skin conditions.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Avoid any pollution of ground, surface or underground water.

Persistence and degradation Not available.

Bioaccumulation Not available.

Mobility in soil Not available.

Other adverse effects Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal In accordance with municipal, provincial and federal regulations. Check with expert to insure compliance.

Container disposal In accordance with municipal, provincial and federal regulations. Check with expert to insure compliance.

SECTION 14 - TRANSPORT INFORMATION

United Nations number Not regulated

Identification Not available.

Classes of dangerous goods WHMIS : Group III, class 3

Packing group Not available.

Environmental hazards Not available.

Bulk transport Not available.

Special precautions Not available.

SECTION 15 - OTHER REGULATORY INFORMATION

Federal, international and other regulations European union labelling :
R10 Flammable
Xn R22 Harmful if swallowed
Xi R38 Irritating to skin
S36/37/38 Wear suitable protective clothing, gloves and eye/face protection



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Other classification NFPA : Not applicable. HMIS : Not applicable.

SECTION 16 - OTHER INFORMATION

Other information When utilized by professionals following the conventional good manufacturing practices, the aromatic materials are not severely dangerous. However, the preceding precautions and the following general operation rules must be respected.
Keep the product away from any food or drink. It is an industrial product and must not be ingested as such. Eating, drinking and smoking should not be permitted in handling and packaging areas. Cases of auto-flammability of several fragrance materials are reported. Consequently, the materials used to mop up the product (sponges, absorbent papers, sawdust, etc.) must be rapidly eliminated. The refuse-bins in the manufacturing areas must be cleared out. Transfer to a flammable waste container and incinerate at approved site. The product must not be heated with, or exposed to, open flames or other sources of ignition. Do not expose to unprotected electrical equipment. Never overheat the product. Do not breath hot vapours. In any case of potential poisoning, get medical advice.

Last Updated 14-11-2016

IMPORTANT : The information presented herein is believed to be accurate and is obtained from current and reliable sources. Final determination of the suitability of the material is the sole responsibility of the user, this document is offered only as a guide. Users assume all risk of use, storage and handling of the product. Coop Coco & Calendula shall not be held responsible for any damages to property or for any adverse physical effects (including injury or bodily harm) caused by insufficient knowledge or the improper use of a product. Coop Coco & Calendula strongly recommends small lab scale testing for evaluation purposes prior to full commercial manufacturing.