



Plant's Power Inc
 3-2700 St.Clair Ave west
 Toronto, Ontario, M6N 1M2
 Contact: 1-416-766-1254

Material Safety Data Sheet Clove Bud Oil

Section 1: Product and Company Identification

Product Name: Clove Bud Essential Oil
 Botanical Name: *Eugenia caryophyllata*
 INCI Name: Eugenia Caryophyllus (Clove) Flower Oil
 CAS#: 8015-98-2 / 84961-50-2
 EINECS #: 284-638-7
 Synonyms: Eugenia caryophyllus bud oil

Contact information:

Plant's Power Inc 3-2700 St.Clair Ave west Toronto, Ontario M6N 1M2 Contact: 1-416-766-1254 http://www.PlantPower.ca contactus@plantpower.ca	24 HOUR EMERGENCY TELEPHONE NUMBER: (647)-427-4480
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Section 2: Composition and Information on Ingredients

Composition: Eugenia caryophyllata bud oil is an essential oil steamed distilled from the dried flower buds of the clove. *Syzygium aromaticum*, syn. *Eugenia caryophyllata*. Myrtaceae.
 CAS Number: 8015-98-2 / 84961-50-2

Alpha Phellandrene <1%	
CAS No.: 99-83-2	EC No.: 202-792-5
Classification (EC 1272/2008) Flam. Liq. 3 – H226 Asp. Tox. 1 – H304	Classification (67/548/EEC) Xn; R65 R10
Beta Phellandrene 5-10%	

CAS No.: 555-10-2	EC No.: 209-081-9
Classification (EC 1272/2008) Flam. Liq. 3 – H226 Asp. Tox. 1 – H304	Classification (67/548/EEC) Xn; R65 R10
Eugenol 60-100%	
CAS No.: 97-53-0	EC No.: 202-589-1
Classification (EC 1272/2008) Eye Irrit. 2 – H319 Skin Sens. 1 - H317	Classification (67/548/EEC) Xi; R36 R43
Eugenyl Acetate 5-10%	
CAS No.: 93-28-7	EC No.: 202-235-6
Classification (EC 1272/2008) Acute Tox. 4 – H302	Classification (67/548/EEC) Xn; R22
Metyleugenol <1%	
CAS No.: 93-15-2	EC No.: 202-223-0
Classification (EC 1272/2008) Acute Tox. 4 – H302 Muta. 2 – H341 Carc. 2 – H351 Aquatic Chronic 2 – H411	Classification (67/548/EEC) Xn; R22 Carc. Cat. 3; R40 Muta. Cat. 3; R68 N; R51/53

Section 3: Hazards Identification

CLASSIFICATION 1999/45

Xn; R65, Xi; R36,R43

CLASSIFICATION (EC 1272/2008)

Physical and Chemical Hazards:
Human Health:

Not classified.
Eye Irrit. 2 – H319
Skin Sens. 1 – H317
Asp. Tox 1 – H304

Environment:

Not classified.

LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008



Signal Word: Danger

Contains: Eugenol

HAZARD STATEMENTS

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

P280 Wear protective gloves/protective clothing/eye protection.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313 Get medical advice/attention.

SUPPLEMENTARY PRECAUTIONARY STATEMENTS

P261 Avoid breathing dust/fum/gas/mist/vapours/spray.

P264 Wash..... thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P301+310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see.....on this label).

P331 Do NOT induce vomiting.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P337 If eye irritation persists:

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container to.....

Section 4: First Aid Measures

General Information:	Remove affected person from source of contamination. Perform artificial respiration if breathing has stopped.
Notes To The Physician:	No specific first aid measures noted.
Inhalation:	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Eye Contact:	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
Skin Contact:	If necessary remove contaminated clothing and wash skin with soap and water. Get medical attention if any discomfort continues.
Ingestion:	If necessary, rinse mouth and provide fresh air. Get medical attention if any discomfort continues.

Section 5: Fire and Explosion Data

Suitable Extinguishing Media:	Foam, carbon dioxide or dry powder.
Special Firefighting Procedures:	Containers close to fire should be removed or cooled with water.

Unusual Fire & Explosion

Hazards:	No unusual fire or explosion hazards noted.
Specific Hazards:	When heated and in case of fire, toxic vapours/gases may be formed.
Protective Measures In Fire:	Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6: Accidental Release Measures

Personal Precautions:	Use protective gloves, goggles and suitable protective clothing. In case of spills, beware of slippery floors and surfaces.
Environmental Precautions:	Do not discharge into drains, water courses or onto the ground.
Cleaning Up Methods:	Absorb with inert, damp, non-combustible material, then flush area with water.
For Spillages:	Shovel into dry containers. Cover and move the containers. Flush the area with water.

Section 7: Handling and Storage

Usage Precautions:	Avoid spilling, skin and eye contact. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and dispensing.
Storage Precautions:	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.
Storage Class:	Unspecified storage.

Section 8: Exposure Controls/Personal Protection

Engineering Measures:	Provide adequate ventilation.
Respiratory Equipment:	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
Hand Protection:	Protective gloves should be used if there is a risk of direct contact or splash.
Eye Protection:	If, risk of splashing, wear safety goggles or face shield.
Other Protection:	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures:	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.
Skin Protection:	Wear apron or protective clothing in case of splashes.

Section 9: Physical and Chemical Properties

Appearance:	Slightly viscous liquid
Colour:	Yellow to brown
Odour:	Spicy, eugenolic

Specific Gravity: 1.040 – 1.070 at 20°C
Flash Point: >100°C
Refractive Index: 1.528 – 1.538 at 20°C

Section 10: Stability and Reactivity Data

Stability: Stable under normal temperature conditions
Conditions to avoid (stability): Avoid heat, flames, and other sources of ignition
Materials to avoid: Strong oxidizing substances
Strong acids
Strong alkalis
Hazardous decomposition products: In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.
Hazardous Polymerization: Will not polymerize

Section 11. Toxicological Information

General Information: No specific health warnings noted.
Inhalation: In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
Ingestion: No specific health warnings noted. No harmful effects expected in amounts likely to be ingested by accident.
Skin Contact: No specific health warnings noted.
Eye Contact: Spray and vapour in the eyes may cause irritation and smarting.
Health Warnings: No specific health warnings noted. Medical Symptoms: No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.
Medical Considerations: Persons with rash are directed to skin expert for examination of allergic eczema.

Section 12: Ecological Information

Ecotoxicity: See Section 3

Section 13: Disposal Considerations

General Information: Waste is suitable for incineration
Disposal Methods: Dispose of waste and residues in accordance with local authority requirement.

Section 14: Transport Information

General: This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)

Section 15: Other Regulatory Information

None available.

Section 16: Other Information

General Information: Shelf life: 36 months when stored within advised conditions.

Recommend user Checks quality after 12 months storage.

RISK PHRASES IN FULL:

R10 Flammable.

R22 Harmful if swallowed.

R65 Harmful: may cause lung damage if swallowed.

R36 Irritating to eyes.

R40 Limited evidence of a carcinogenic effect.

R43 May cause sensitization by skin contact.

R68 Possible risk of irreversible effects.

R51 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

HAZARD STATEMENTS IN FULL:

H319 Causes serious eye irritation.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic reaction.

H351 Suspected of causing cancer.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Plant's Power be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Plant's Power has been advised of the possibility of such damages.
