


MATERIAL SAFETY DATA SHEET
In accordance with Regulation (EC) No. 1907/2006

1. Product Identification	
Product Name:	Clove Oil
Botanical Name:	Eugenia Caryophyllata
CAS #	8000-34-8
EC No.	284-638-7
Country of Origin:	India

2. Hazards identification	
Classification under Regulation (EC) No 1271/2008	
Class and Category of Danger:	Asp. Tox. 1
	Skin Irrit. 2
	Skin Sens. 1
	Eye Irrit. 2
	H304, May be fatal if swallowed and enters airways
	H315, Causes skin irritation
	H317, May cause an allergic skin reaction
	H319, Causes serious eye irritation
Signal Word:	DANGER
Classification in accordance with Regulation (EC) No. 1272/2008 (EU-GHS/CLP)	
Hazard Pictograms:	
Precautionary Statements:	P261, Avoid breathing dust/fume/gas/mist/vapours/ spray
	P280, Wear protective gloves/protective clothing/eye protection/face protection
	P301+P310, IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
	P302+P352, IF ON SKIN: Wash with plenty of 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.
	P501, Dispose of contents/container to ...

3. Composition/ Information on Ingredients				
Contains:				
Name	CAS	%	DSD	CLP
Clove Oil	8000-34-8	100 %	Xi; R38,R43	H304, May be fatal if swallowed and enters airways, H315, Causes skin irritation, H317, May cause an allergic skin reaction, H319, Causes serious eye irritation, , ,
4. First Aid Measures				
Eye Contact:		Flush with water for at least 15 minutes and report to physician.		
Inhalation:		Remove to fresh air. Avoid casual breathing.		
Ingestion:		Rinse mouth and consult physician immediately.		
Skin Contact:		Remove contaminated clothing. Wash with soap and plenty of water.		
5. Fire Fighting Measures				
Extinguishing Media:		CO2, Dry Chemical, Foam		
Advise:		In case of insufficient ventilation, wear suitable respiratory equipment		
6. Accidental Release Measures				
Spillage:		Absorb spills using an inert, inorganic absorbent material		
Fire:		Recommended extinguishing media – CO2, foam and dry chemicals		
Environment:		Keep away from drains, surface and ground water		

Storage:	Store in cool, dry, well ventilated area away from sources of flame, heat and oxidation

7. Handling and Storage

Precautions:	Keep away from heat, sparks, open flames and hot surfaces. No smoking.
Storage:	Store in a well-ventilated, cool place with container tightly closed. Ground/bond container and receiving equipment

8. Exposure Controls/Personal Protection

Workplace Exposure Limits:	N/a
Eye/Skin protection:	Wear protective gloves/ eye protection/face protection
Respiratory protection:	Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters c) Use closed systems for transferring and processing this material.

9. Physical and chemical properties

Appearance:	Pale yellow to yellow clear liquid
Odor:	Characteristic clove odor
Solubility:	Soluble in alcohol and oils. Insoluble in water
Specific Gravity:	1.030 to 1.063@ 20°C
Refractive Index:	1.530 to 1.590@ 20°C
Flash Point:	104°C

10. Reactivity/Stability Data

Reactivity:	Stable
Chemical Stability:	Stable
Decomposition:	N/a
Conditions to Avoid:	Avoid extreme heat and avoid contact with strong acids, alkalis or oxidizing agents

11. Toxicological Properties/Information

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

12. Ecological information	
Toxicity:	N/a
Persistence and degradability:	N/a
Bioaccumulative potential:	N/a
Mobility in soil:	N/a
Results of PBT and vPVB assessment:	This substance does not meet the PBT/ vPVB criteria of REACH , annex XIII
Other adverse effects:	N/a

13. Disposal considerations	
Waste treatment methods:	Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information	
UN Number:	-
Shipping Name:	Clove Oil
Hazard Class:	-
Packing Group:	-

15. Regulatory information	
None Additional	
16. Other information	
N/A	

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