

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

PRODUCT NAME: Clove Bud Oil

PRODUCT CODE: 30609

SUPPLIER: The Soap Kitchen, 11a South Street, Torrington, Devon, EX38 8AA

Emergency Tel No: 01805 622944 Emergency Contact: Mr. Richard Phillips.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS.

DEFINITION/BOTANICAL ORIGIN: The volatile oil obtained by steam distillation of the unopened flower buds of the clove tree *syzigium aromaticum* (L.) Merr. Et Perry syn. *Eugenia caryophyllata* Thunberg. (Fam. Myrtaceae).

H-No: 3301.29

CAS No: 8000-34-8

Status: natural

CoE No: 188

FEMA: 2325

Additives: none

FDA: § 182.20

IFRA: not restricted

Application: Aromatherapy, skin care etc

RIFM: Monograph

EINECS: 284-638-7

RTECS:

INCI name: Eugenia caryophyllata

FCCIV:

## 3. HAZARDS IDENTIFICATION:

Xn Harmful; Xi Irritant

## 4. FIRST-AID MEASURES:

INHALATION:

Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.

EYE CONTACT:

Rinse immediately with plenty of water for at least 15 mins. Contact a doctor if symptoms persist.

SKIN CONTACT:

Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.

INGESTION:

Rinse mouth out with water. Seek medical advice **immediately**.

OTHER:

When assessing action take Risk & Safety Phrases into account (Section 15)

## 5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA

RECOMMENDED:

Use CO<sub>2</sub>, Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

SPECIAL MEASURES:

Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.

EXTINGUISHING PROCEDURES:

Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

## 6. ACCIDENTAL RELEASE MEASURES.

PERSONAL PRECAUTIONS:

Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.

ENVIRONMENT PRECAUTIONS:

Keep away from drains, soils, surface & groundwaters.

CLEANING UP METHODS

FOR SPILLAGES:

Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

## 7. HANDLING & STORAGE.

PRECAUTIONS IN HANDLING:	Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
STORAGE CONDITIONS:	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.
FIRE PROTECTION:	Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

RESPIRATORY PROTECTION:	Avoid breathing product vapour. Apply local ventilation where possible.
VENTILATION:	Ensure good ventilation of working area.
HAND PROTECTION:	Avoid all skin contact. Use chemically resistant gloves if required.
EYE PROTECTION:	Use safety glasses.
WORK/HYGIENE PRACTICES:	Wash hands with soap & water after handling.

## 9. PHYSICAL & CHEMICAL PROPERTIES.

COLOUR:	Yellow to brown
APPEARANCE:	Slightly viscous liquid
ODOUR:	Spicy, eugenolic
FLASH-POINT °C:	>100
SPECIFIC GRAVITY @ 20°C:	1.040 - 1.070
REFRACTIVE INDEX @ 20°C:	1.528 - 1.538
SOLUBILITY IN 70% ETHANOL @ 20°C:	1+2 clear

## 10. STABILITY & REACTIVITY.

REACTIVITY:	It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidising agents.
DECOMPOSITION:	Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## 11. TOXICOLOGICAL INFORMATION.

Acute oral LD<sub>50</sub>: 1.37g/kg. Moderate irritant, strong mucous membrane irritant. See RIFM monograph (1978) *FCT* 16, 695

## 12. ECOLOGICAL INFORMATION.

BIODEGRADABILITY:	Data not available
PRECAUTIONS:	Prevent surface contamination of soil, ground & surface water.

## 13. DISPOSAL CONSIDERATIONS.

Avoid disposing to drainage systems and into the environment. Seek expert advice.

## 14. TRANSPORT REGULATIONS.

Road (ADR/RID):	n/a
AIR (IATA):	n/a
SEA (IMDG):	n/a
CHIP:	See section 15

**15. REGULATORY INFORMATION.** According to Directive 88/379/EEC

HAZARDS: Harmful, Irritant  
SYMBOLS: Xn, Xi  
RISK PHRASES: R21/22/38 Harmful on contact with the skin/ harmful if swallowed/ irritating to the skin  
SAFETY PHRASES: S36/37 Wear suitable protective clothing and gloves  
S20 No eating and drinking while at work

**16. OTHER INFORMATION.**

Cosmetics Directive 7<sup>th</sup> Amendment: Restrictions may apply. A source of Eugenol and Isoeugenol, listed as sensitisers. Check maximum usage levels for skin care products before use.

**PACKAGING:**

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

**SHELF LIFE**

When stored within advised conditions, re-test after 12 months, then at 3 monthly intervals up to a maximum life of 36 months.

**Q.C. REQUIREMENTS.**

In-line with general product specification. Always satisfy suitability for specific application.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.