



MATERIAL SAFETY DATA SHEET

MSDS

CLOVE BUD OIL

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: CLOVE BUD OIL
Product Use: Personal Care Formulations
Company Name: Natural Sourcing
Company Address: 341 Christian Street, Oxford, CT 06478, USA
Date Issued: 1/1/2008
Emergency Telephone Number: Chemtrec Tel: (800) 262-8200

2. COMPOSITION/INGREDIENT INFORMATION

Ingredients:
 Clove bud essential oil extracted by steam distillation 100%
Hazardous Components: Essential oil and derivatives
CAS #:

3. HAZARDS IDENTIFICATION

Routes of Entry	Eyes	Skin	Inhalation	Ingestion
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Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

- Inflammation of the eye is characterized by redness, watering, and itching.
- Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

The substance is toxic to the nervous system, mucous membranes.

- Repeated or prolonged exposure to the substance can produce target organs damage.
- Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation.

Note: This liquid should not be used as a fragrance ingredient at a level over 1% in a compound when skin contact is possible.

4. FIRST AID MEASURES

Eyes: Remove contact lenses if applicable. Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention.

Skin: Remove contaminated clothing. Wash with soap and flush with plenty of water. Seek medical attention if irritation persists.

Ingestion: Drink water or milk to dilute and contact poison control center or seek medical attention immediately.

Inhalation: Avoid gross inhalation of fumes. Remove to fresh air and seek medical attention if needed.

5. FIRE FIGHTING MEASURES

Flash Point (Method Used):	93.3°C Close Cup
Extinguishing Media:	Dry Chemical, Carbon Dioxide, Foam
Special Firefighting Procedures:	Fire fighters should wear positive pressure self-contained breathing apparatus. Cool containers exposed to flame with water spray. Spray extinguishing media directly into base of fire.
Unusual Fire & Explosion Hazards:	None
Hazardous Decomposition Materials:	CO, CO ₂ , smoke and unidentified organic compounds may be formed during combustion.

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal Protection:	Avoid ingestion Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the skin or eyes. Wear eye protection, gloves and aprons. Ventilate area well.
Methods for Cleaning Up:	Eliminate all sources of ignition Ventilate area Prevent liquid from entering sewers Small spills can be wiped up with paper rags (place in closed metal waste container) Large spills can be absorbed onto non-flammable absorbent. Wash area with soap and water.

7. HANDLING AND STORAGE

Handling	
Safe Handling:	Avoid ingestion Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the skin or eyes. Wear eye protection, gloves and aprons. Ventilate area well.
Storage	
Requirements for Storage Areas and Containers:	Store in an area that is cool, dry, and well-ventilated.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Threshold Limit Value:	Not established
OSHA Permissible Limit:	Not established
Work Practice Controls:	Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.
Respiratory:	Avoid casual breathing of vapors
Ventilation:	Local, mechanical exhaust in recommended

Eye: OSHA approved safety glasses
Skin: Wear chemical resistant gloves and clothing to avoid skin contact

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid, Oil
Color: Clear yellow to brown
Odor: Characteristic of clove
Vapor Pressure (mm Hg.): Not available
Boiling Point: Not available
Melting Point: N/A
Specific Gravity (H₂O = 1): 1.035 to 1.057
Refractive Index: 1.5230 to 1.5310
Solubility in Water: Slightly soluble

10. STABILITY AND REACTIVITY

Stability: This material is stable under normal conditions.
Incompatibility (Materials to Avoid): Avoid contact with strong oxidizing agents and avoid hot work and sources of ignition on or near empty containers.
Conditions to Avoid: Avoid contact with sparks, flame and heat.
Hazardous Decomposition or Byproducts: CO, CO₂, smoke and unidentified organic compounds may be formed during combustion.
Hazardous Polymerization: Will Not Occur

11. TOXICOLOGICAL INFORMATION

CAUTION: Liquid may be irritating to eyes, skin, mucous membranes.

Toxicity: Acute oral toxicity (LD₅₀): 2650 mg/kg [Rat]
Chronic Effects on Humans: The substance is toxic to the nervous system, mucous membranes.
Other Toxic Effects on Humans: Very hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Listed as a Carcinogen: No

12. ECOLOGICAL INFORMATION

No information

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of according to local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT Hazard Classification: Not a DOT controlled material (United States).

15. REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: **Clove oil**
HMIS (U.S.A.): Health: 2 Fire: 1 Reactivity: 0
National Fire Protection Association (U.S.A.): Health: 2 Flammability: 1 Reactivity: 0

16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.