1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Clove Bud Oil Natural
REACH REGISTRATION NUMBER: Essential Oil
TYPE OF PRODUCT: Syzygium aromaticum (Linnaeus) Merr. et Perry
CAS NUMBER: 8000-34-8
EINECS NUMBER: 284-638-7
CAS EINECS: 84961-50-2
FEMA NUMBER: 2323
INCI NAME: EUGENIA CARYOPHYLLUS BUD OIL
IDENTIFICATION OF USAGE: Industrial
SUPPLIER: BONTOUX, Inc.
21 Progress
08820 Edison, New Jersey
United States of America
Ph: 908-755-4800
Fax: 908-755-4844
24 hours emergency telephone number (CHEMTREC): 800-424-9300

2. HAZARDS IDENTIFICATIONS

CLASSIFICATION ACCORDING TO GHS REGULATION:
Health Hazards: AH 1, ATD 5, ATO 5, EDI 2A, SCI 3, SS 1
Environmental Hazards: EH-A 2

WORDS OF WARNING: DANGER
PARTICULAR RISKS:
H303 May be harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H313 May be harmful in contact with skin.
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H401 Toxic to aquatic life.
3. COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>INGREDIENT CONTRIBUTING TO THE HAZARD</th>
<th>CONTENT</th>
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<tbody>
<tr>
<td>Eugenol (CAS : 97-53-0)</td>
<td>&lt;92%</td>
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<td>1999/45/CE : Xi;R36;R43;S24;S26;S37</td>
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<td>GHS : ATO 5 (2,300), EDI 2A, EH-A 2, SCI 3, SS 1</td>
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<tr>
<td>Caryophyllene (CAS : 87-44-5)</td>
<td>&lt;17%</td>
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<td>1999/45/CE : Xn;R65;S62</td>
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<tr>
<td>GHS : AH 1, SCI 3</td>
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<tr>
<td>Eugenyl acetate (CAS : 93-28-7)</td>
<td>&lt;1%</td>
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<td>1999/45/CE : XN;R22;</td>
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<tr>
<td>GHS : ATO 4 (1,670), SCI 3</td>
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<tr>
<td>Methyl eugenol (CAS : 93-15-2)</td>
<td>&lt;0.1%</td>
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<tr>
<td>1999/45/CE : N;Xn;R22;R40;R51/53;R68;S36;S61</td>
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</tr>
<tr>
<td>GHS : ATO 4 (810), CAR 2, EH-A 2, MUT 2</td>
<td></td>
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</tbody>
</table>

Labelling for acute toxicity based on test datas

4. FIRST-AID MEASURES

INGESTION: Do not try to vomit. Rinse mouth. Consult a doctor.
Clove Bud Oil Natural

5. FIRE FIGHTING

EXTINGUISHING MEDIA :  SUITABLE : CO2 foam, dry chemical.
                        NON SUITABLE : Water.

SPECIFIC METHODS OF FIRE FIGHTING : None.

SPECIAL EQUIPMENT FOR THE PROTECTION OF FIRE FIGHTERS : No.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : Avoid all contact with eyes and mucous.
ENVIRONNEMENTAL PRECAUTIONS : Don't throw it in sewer nor in natural environment.
METHODS FOR CLEANING-UP : Recover in a tight container.
                          : Wash with plenty of water after complete elimination of the product.

7. HANDLING AND SORAGE

HANDLING : Avoid contact with eyes and mucous.
STORAGE : Keep away from humidity in a fresh place. Keep container closed after using.
OTHER : See Section 8.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION : Assure a good ventilation of work place.
HAND PROTECTION : Plastic or synthetic rubber impermeable gloves.
EYE PROTECTION : Goggles giving complete protection to eyes. Eyewash bottle with clean water.
SKIN AND BODY PROTECTION : Clothes for chemical protection to avoid contact.
INGESTION : Do not eat, drink and smoke while using
INDUSTRIAL HYGIENE : Provide an extraction or global ventilation of the work place to reduce concentrations of the steams.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM : Liquid
COLOR : Almost colorless to pale yellow or brownish
Clove Bud Oil Natural

ODOR: Strong spicy clove woody pleasant odor.
ODOR THRESHOLD: Data not found
pH: Data not found
MELTING POINT: Data not found
BOILING POINT: 251 °C / 483.8 °F
FLASHPOINT (closed cup): > 100 °C / > 212 °F
EVAPORATION RATE: Data not found
FLAMMABILITY: Data not found
EXPLOSIVE LIMITS: Data not found
VAPOR PRESSURE: Data not found
VAPOR DENSITY: Data not found
SPECIFIC GRAVITY: 1.06
SOLUBILITY IN WATER: Insoluble
Log K (n-octanol/water): Data not found
AUTOIGNITION TEMP.: Data not found
DECOMPOSITION TEMP.: Data not found
VISCOSITY: Data not found
EXPLOSIVE PROPRIETIES: Data not found
OXIDIZING PROPRIETIES: Data not found
OTHER DATA: Data not found

10. STABILITY AND REACTIVITY

REACTIVITY: No data available.
CHEMICAL STABILITY: No data available.
POSSIBILITY OF HAZARDOUS REACTION: None in normal conditions.
CONDITIONS TO AVOID: Excessive heat.
INCOMPATIBLE MATERIALS: Strongly oxidising and reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: None in normal conditions.
OTHERS: None.

11. TOXICOLOGICAL INFORMATION

INGESTION: Acute toxicity, oral
DL50 (mg/Kg): 2,650
SKIN CONTACT: Acute toxicity, dermal
DL50 (mg/Kg): 2,500
EYE CONTACT: Serious eye damage/eye irritation
INHALATION: No specific hazard in normal use.
ASPIRATION: Aspiration hazard
12. ECOLOGICAL INFORMATION

TOXICITY : See Section 2
PERSISTENCE / DEGRADABILITY : No information available.
BIOACCUMULATION POTENTIAL : No information available.
RESULTS OF PBT AND vPvB ASSESSMENT : No information available.
MOBILITY IN SOIL : No information available.
WGK : 2
OTHER ADVERSE EFFECTS : Not known.

13. DISPOSAL CONSIDERATION

To comply with the regulations and prefectoral orders in use.
Throwing out forbidden. Packaging must be well emptied

14. TRANSPORT INFORMATION MEASURES

RID / ADR
Not Classified

IMCO / IMDG
Not classified

OACI / IATA
Not classified

Labelling according to RID / ADR, IMCO / IMDG, OACI / IATA
No label for transport

15. REGULATORY INFORMATION

LABELLING ACCORDING TO GHS REGULATION :
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PRECAUTIONARY STATEMENT
PREVENTION:
P280: Wear protective gloves, protective clothing, eye protection, face protection.

PRECAUTIONARY STATEMENT
RESPONSE:
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352: IF ON SKIN: Wash with plenty of soap and 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.
P331: Do NOT induce vomiting.

PRECAUTIONARY STATEMENT
DISPOSAL:
P501: Dispose of contents and/or container in accordance with local, regional, national and/or international regulation.

PARTICULAR MENTION:
Not available.

OTHERS:
Not available.

LIMITS OF EXPOSURE:
Not available.

Labelling for acute toxicity based on test data.

OTHER CLASSIFICATIONS:

DOT CLASSIFICATION:

NFPA CLASSIFICATION:

NIOSH:
Not available

THRESHOLD LIMIT VALUE - TLV:
Not available

OSHA PERMISSIBLE EXPOSURE LIMIT - PEL:
Not available

IAS THE SUBSTANCE BEEN LISTED AS CARCINOGEN:
Not available

SARA 313:
Not available
### 16. OTHER INFORMATION

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<tr>
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The content and format of this safety data sheet are in accordance with EC Regulation No. 1907/2006 of the European Parliament and Council.

Respect safety measures usually applied during the production of perfumery products. This data sheet completes the technical use notice, but doesn't replace it. These information are based on our actual knowledge for the above mentioned product at the edition date of this data sheet. They are given in good faith. In any case user is not exempted to know and apply all texts which regulate this activity. He will take under his own responsibility the precautions for the utilisation of product he knows. Users should be aware of the other purposes than those for which it is concerned.