

	<h1>SAFETY DATA SHEET</h1>	Date : 11/29/10
		Version : 5G
		Revision : 09/20/15
		Replace : 08/06/14
Clove Leaf Oil Natural		Page : 1/7

1 . PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME :	Clove Leaf Oil Natural
REACH REGISTRATION NUMBER :	
TYPE OF PRODUCT :	Essential Oil
CHEMICAL NAME :	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.
-

	<h1>SAFETY DATA SHEET</h1>	Date : 11/29/10
		Version : 5G
		Revision : 09/20/15
		Replace : 08/06/14
Clove Leaf Oil Natural		Page : 2/7

PRECAUTIONARY STATEMENT
PREVENTION :

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
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.
P310 Immediately call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor if you feel unwell.
P321 Specific treatment.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs : Get medical advice.
P333+P313 If skin irritation or rash occurs : Get medical advice.
P363 Wash contaminated clothing before reuse.

PRECAUTIONARY STATEMENT
STORAGE :

P405 Store locked up.

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 datas

3. COMPOSITION INFORMATION

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

Labelling for acute toxicity based on test datas

4. FIRST-AID MEASURES

INGESTION :

Do not try to vomit. Rinse mouth. Consult a doctor.

 <p>Bontoux, Inc.</p>	<h1>SAFETY DATA SHEET</h1>	Date : 11/29/10
		Version : 5G
		Revision : 09/20/15
		Replace : 08/06/14
Clove Leaf Oil Natural		Page : 3/7

EYE CONTACT : Wash immediately and abundantly the eyes with a good running water at low pressure. Consult an ophthalmologist.

SKIN CONTACT : Sprinkle abundantly with water during at least 15 minutes.

INHALATION : Remove victim to fresh air

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



Bontoux, Inc.

SAFETY DATA SHEET

Date : 11/29/10

Version : 5G

Revision : 09/20/15

Replace : 08/06/14

Page : 4/7

Clove Leaf 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

	<h1>SAFETY DATA SHEET</h1>	Date : 11/29/10
		Version : 5G
		Revision : 09/20/15
		Replace : 08/06/14
Clove Leaf Oil Natural		Page : 5/7

SPECIFIC EFFECTS : No information available.

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 prefectural 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 :

Health Hazards : AH 1,ATD 5,ATO 5,EDI 2A,SCI 3,SS 1
 Environmental Hazards : EH-A 2



WORDS OF WARNING:

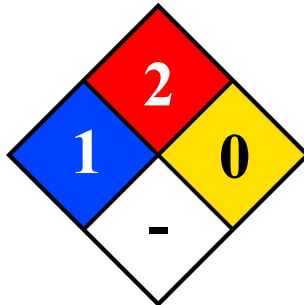
DANGER

	<h1>SAFETY DATA SHEET</h1>	Date : 11/29/10
		Version : 5G
		Revision : 09/20/15
		Replace : 08/06/14
		Page : 6/7
Clove Leaf Oil Natural		

PARTICULAR RISKS : PRECAUTIONARY STATEMENT PREVENTION : PRECAUTIONARY STATEMENT RESPONSE : PRECAUTIONARY STATEMENT DISPOSAL : PARTICULAR MENTION : OTHERS : LIMITS OF EXPOSURE :	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. <hr/> P280 Wear protective gloves, protective clothing, eye protection, face protection. <hr/> 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. <hr/> P501 Dispose of contents and/or container in accordance with local, regional, national and/or international regulation. <hr/> Not available. <hr/> Not available. <hr/> Not available. <hr/> Labelling for acute toxicity based on test datas
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OTHER CLASSIFICATIONS :

DOT CLASSIFICATION : -
NFPA CLASSIFICATION :



NIOSH : THRESHOLD LIMIT VALUE - TLV : OSHA PERMISSIBLE EXPOSURE LIMIT - PEL : IAS THE SUBSTANCE BEEN LISTED AS CARCINOGEN : SARA 313 :	Not available Not available Not available Not available Not available
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	<h1>SAFETY DATA SHEET</h1>	Date : 11/29/10
		Version : 5G
		Revision : 09/20/15
		Replace : 08/06/14
Clove Leaf Oil Natural		Page : 7/7

16. OTHER INFORMATION

OTHER INVENTORIES

Country	Nom inventaire	Datas	Number
AUSTRALIA	AICS	Listé	
EUROPE	COE	Listé	188n
CANADA	DSL	Listé	
TAIWAN	ECN	Listé	
JAPAN	ENCS	Listé	
USA	FDA	Listé	184.1257
CHINA	IESC	Listé	6527
JAPAN	ISHL	Listé	18007
SOUTH KOREA	KECI	Listé	KE-26792
NEW ZEALAND	NZIoC	Listé	
THE PHILIPPINES	PICCS	Listé	
USA	TSCA	Listé	

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.