

The Essential Oil Company

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

PRODUCT NAME: CLOVE BUD OIL

BOTANICAL/CHEMICAL NAME: Eugenia caryophyllata

MOLECULAR WEIGHT: N/A

MOLECULAR FORMULA: N/A

CLP REFERENCE NUMBER: N/A

REACH REGISTRATION NUMBER: N/A

REACH PREREGISTRATION NUMBER: N/A

APPLICATION OF THE SUBSTANCE: Raw material: Fragrance/flavor application

CAS No (TSCA): 8000-48-4

EINEC: 284-638-7

FEMA No: 2323

FDA No: 182.20

1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

The Essential Oil Company
9225 SE 7th Ave.
Portland, Oregon 97212
503-872-8772

FOR FURTHER INFORMATION, PLEASE CONTACT:

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EMERGENCY TELEPHONE NUMBER

800-729-5912

2. HAZARDS IDENTIFICATION

Classification

Classification of the substance / preparation

Classification according to Regulation (EC) No. 1272/2008

Classification according to Directive 67/548/EEC or 1999/45/EC
Xn N, R36-37-38, S26 -36

Label elements, including precautionary statements

Label Elements

Label elements according to Regulation (EC) No. 1272/2008



Label elements according to Directive 67/548/EEC or 1999/45/EC



Classification system:

The classification is according to the latest editions of EU lists, and extended by company and literature data.

Additional Information:

See section 16 for the wordings of listed R-, S-phrases, H-statements and Hazard codes.

Emergency Overview

Precautionary Statements – Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed in workplace
Keep away from heat/sparks/open flames/hot surfaces. –No smoking

Precautionary Statements – Response

Specific treatment (see ? on this label)
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF SWALLOWED: Immediately call POISON CENTER or doctor/physician
Do not induce vomiting
In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements – Storage

Store locked up
Store in well-ventilated place. Keep cool

Precautionary Statements – Disposal

Dispose of contents/container to an approved disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:

Essential Oil; UVCB; Substance of biological origin with variable and partially unknown composition.

Hazard Impurities: Not Applicable

Content of R65 classified products: No

Dangerous components:

EUGENOL (CAS No. 97-53-0); Xn, Xi (80 or 85%)

4. FIRST AID MEASURES

First aid measures for different exposure routes

General Advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or clothing
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required.
Inhalation	Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Consult a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors or decomposition products.
Ingestion	Do not induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

Protection of first-aiders Use personal protective equipment

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after accident.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use: Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion Data

Sensitivity of Mechanical Impact	None
Sensitivity to Static Discharge	Yes

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharge.

Environmental precautions

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water

or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

Reference to other sections

Refer to section 7, 8 & 13

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Take necessary action to avoid static discharge (which might cause ignition of organic vapors).

Conditions for safe handling

Technical measures/Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated

place. Keep in properly labeled containers. Keep away from heat.

Incompatible products

None known based on information supplied.

8. EXPOSURE CONTROL/PERSONAL PROTECTION
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Control parameters

Exposure guidelines

This product does not contain hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Exposure controls

Engineering measures

Showers
Eye wash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Tightly fitting goggles. Face-shield

Skin and body protection

Chemical resistant apron

Respiratory protection

If exposure limits are exceeded for irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Remove and wash contaminated clothing before re-use.

Skin Protection

Eye Protection

Body Protection



Safety Gloves



Tight safety goggles



Protective Clothing

Respiratory Protection



Dust Mask

Environmental exposure controls

Prevent entry into drains, ground/surface water or sewerage system

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Physical State @20°C	Liquid
Appearance	Yellow to brown
Odor	Spicy, eugenolic
Odor Threshold	No information available
pH	No information available
Optical Rotation	-1° to -0.4°
Melting point/range	No information available
Freezing Point	No information available
Initial boiling point	No information available
Boiling point/boiling range	No information available
Flashpoint	88°C
Specific Gravity	1.0350 – 1.0690 @20°C

Refractive Index	1.5270 – 1.5370 @20°C
Evaporation Rate VALUE	No information available
Flammable Properties	No information available
Flammability limits in Air	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available
Vapor Pressure @20°C	No information available
Vapor Density	No information available
Water Solubility	Insoluble in water
Solubility	1:2 75% Alcohol
Partition coefficient:	No information available
Autoignition temperature	No information available
Decomposition Temperature °C	No information available
Viscosity, dynamic	No information available
Molecular Weight	No information available
VOC Content	No information available

10. STABILITY AND REACTIVITY

Reactivity

Not reactive, stable at room temperature

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

Reactions with strong oxidizers

Conditions to avoid

Heat, flames and sparks

Incompatible materials

Avoid strong acids strong bases and all oxidizing agents

Hazardous decomposition products

No dangerous decomposition products expected by intended use

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product information	Product does not present an acute toxicity hazard based on known information
Inhalation	There is no data available for this product
Eye contact	There is no data available for this product
Skin contact	There is no data available for this product
Ingestion	There is no data available for this product

Chemical name	LD50 Oral	LD50 Dermal	LG50 inhalation
Clove Bud Oil	2650 mg/kg	5000 mg/kg	No Data available

Information on toxicological effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available

Mutagenic effects No information available

Carcinogenicity No information available

Reproductive Toxicity No information available

Specific target organ systemic toxicity (single exposure)

No information available

Specific target organ systemic toxicity (repeated exposure)

	No information available
Chronic toxicity	Repeated exposure may cause allergic reactions in very susceptible persons. Avoid repeated exposure
Aspiration hazard	No information available
CMR Effects	
Carcinogen	No information available
Mutagen	No information available
Reprotoxic	No information available

Exposure Limits

Note: There is a blanket recommendation of 10 mg/m³ for inspirable dusts or mists when limits have not otherwise been established

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT

Ecotoxicity

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Clove Bud Oil	No data available	No data available	No data available

Persistence and degradability

No information available

Bioaccumulation

No information available

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste disposal methods

Dispose of in accordance with local regulations

Contaminated packaging

Do not re-use empty containers

Recommendations:

Empty contaminated packing thoroughly as they may be recycled.

Moistened solids to be disposed of adhering to necessary technical regulations after consulting concerned authorities

14. TRANSPORTATION INFORMATION

DOT

BULK PACKAGING

Marine Pollutant

not regulated

DOT

NON BULK PACKAGING

Marine Pollutant

not regulated

IMDG/IMO

UN Number

2810

Proper shipping name

EXTRACTS, AROMATIC, LIQUID

Hazard Classification

6.1

Packaging Group

III

MEX

UN Number	2810
Proper shipping name	EXTRACTS, AROMATIC, LIQUID
Hazard Classification	6.1
Packaging Group	III

ICAO

UN Number	2810
Proper shipping name	EXTRACTS, AROMATIC, LIQUID
Hazard Classification	6.1
Packaging Group	III

ICAO/IATA

UN Number	2810
Proper shipping name	EXTRACTS, AROMATIC, LIQUID
Hazard Classification	6.1
Packaging Group	III

TDG

UN Number	2810
Proper shipping name	EXTRACTS, AROMATIC, LIQUID
Hazard Classification	6.1
Packaging Group	III

RID

UN Number	2810
Proper shipping name	EXTRACTS, AROMATIC, LIQUID
Hazard Classification	6.1
Packaging Group	III

ADR/RID

UN Number 2810
Proper shipping name EXTRACTS, AROMATIC, LIQUID
Hazard Classification 6.1
Packaging Group III

AND

UN Number 2810
Proper shipping name EXTRACTS, AROMATIC, LIQUID
Hazard Classification 6.1
Packaging Group III

ADR/IMDG/IATA Labels:



Special precautions for users:

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before re-use. Prevent entry into drains, ground/surface water or sewerage system.

15. REGULATORY INFORMATION

EU regulations

This product has been classified and marked in accordance with the EU Directives/Ordinance on Hazardous Materials.

Internal Inventories

TSCA Complies

DSL/NDSL Complies

EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

EINICS/ELINCS – European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS – Japan Existing and New Chemical Substances

IECSC – China Inventory of Existing Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances

PICCS – Philippines Inventory of Chemicals and Chemical Substances

AICS – Australian Inventory of Chemical Substances

Sudden Release of Pressure Hazard No

Reactive Hazard No

Clean Water ACT

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization ACT (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 Chemicals

16. OTHER INFORMATION

Relevant R – and S phrases

R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN
S26/36	IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. WEAR SUITABLE PROTECTIVE CLOTHING

Revision Date 7/25/15

Revision Note No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet