

SAFETY DATA SHEET

EC Regulation No.1907/2006 (REACH) & 2020/878/EC

THIS PRODUCT IS FOR EXTERNAL USE ONLY- DO NOT INGEST

1 IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Commercial Name: CLOVE BUD OIL
INCI Name: EUGENIA CARYOPHYLLUS BUD OIL
CAS No: 84961-50-2
EINECS No: 284-638-7
TSCA CAS No: 8000-34-8
FEMA: 2323
Reach Reg No: 01-2119971802-33-xxxx
Company Duin No: UK-20-6230806810-5-0000
Botanical Name: *Eugenia caryophyllus*

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use (s): Essential Oil. Perfume/fragrance material for manufacturing purposes only.

1.3 Details of the supplier of the safety data sheet

Company Name: AROMA TRADING LIMITED
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to the current IFRA/ IOFI 2023 Labelling Manual and Regulation (EC) No. 1272/2008 (CLP)

Hazard Class	Abbreviation	Hazard Category	Hazard Code	Hazard Statement
Acute Toxic Oral	ATO	5	H303	May be harmful if swallowed
Acute Toxic Dermal	ATD	5	H313	May be harmful in contact with skin
Skin Corrosion/Irritation	SCI	3	H316	Causes mild skin irritation
Skin Sensitisation	SS	1	H317	May cause an allergic skin reaction
Eye Damage/Irritation	EDI	2A	H319	Causes serious eye irritation
Environmental Acute	EHA	2	H401	Toxic to aquatic life

2.2 Label elements

Symbols:



Signal word: WARNING

UN Global Harmonised System Precautionary Statements (CLP)

	Prevention Statements
P243	Take precautionary measures against static discharge
P280	Wear protective gloves/clothing, eye/face protection
P264	Wash hands thoroughly after handling
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



	Response Statements
P303/361	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P321/363	Protective clothing should be washed before reuse
P331	Do NOT induce vomiting.
P332/313	If skin irritation occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse.
P353	Rinse skin with water/shower.
P305	IF IN EYES: Rinse cautiously with water for several minutes.
P351/338	Remove contact lenses if present and easy to do. Continue rinsing.
P337/313	If eye irritation persists: get medical advice/attention
P370/378	In case of fire: Use carbon dioxide, foam or dry powder for extinction.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P391	Collect spillage

	Storage and Disposal Statements
P403	Store in a well ventilated place.
P235	Keep cool
P501	Dispose of contents and container in accordance with international regulation

3. COMPOSITION/INFORMATION ON CONSTITUENTS

3.1 Nature Of Product CLOVE BUD OIL (100% Pure & Natural)

"Clove Oil". *Eugenia Caryophyllus* Bud Oil is an essential oil steam-distilled from the dried flower buds of the Clove, *Syzygium aromaticum*, syn. *Eugenia caryophyllus*, Myrtaceae Geraniaceae

EINECS No: 284-638-7
FEMA: 2323

CAS No: 84961-50-2
FDA:

TSCA CAS No: 8000-34-8
HC (%): 18

3.2 Constituents

These indicative levels should be taken into account when determining the compliance of the essential oil under its condition of use. (In accordance with Regulation (EC) No 1272/2008 and IFRA/IOFI Labelling Manual 2023
Classified constituents $\geq 0.1\%$, no Aspiration hazard & Flammability)

CONSTITUENT	CAS NUMBER	%	RELEVANT GHS
beta-Caryophyllene	87-44-5	16.0	Skin Sens. 1B;H317 Aquatic Chronic 4;H413
Benzyl benzoate	120-51-4	0.2	Acute Tox. 4 (Oral);H302 Acute Tox. 5 (Dermal);H313 Aquatic Acute 1;H400 Aquatic Chronic 2;H411
Caryophyllene oxide	1139-30-6	0.3	Skin Irrit. 3;H316 Aquatic Acute 2;H401 Aquatic Chronic 2;H411
Eugenol	97-53-0	88.0	Acute Tox. 5 (Oral);H303 Skin Irrit. 3;H316 Eye Irrit. 2A;H319 Skin Sens. 1B;H317 Aquatic Acute 2;H401
Eugenyl acetate	93-28-7	7.8	Acute Tox. 4 (Oral);H302 Aquatic Acute 2;H401
Eugenyl methyl ether	93-15-2	0.1	Acute Tox. 4 (Oral);H302 Muta. 2;H341 Carc. 2;H351 Aquatic Acute 2;H401
Furfural	98-01-1	0.2	Acute Tox. 3 (Oral);H301 Acute Tox. 4 (Dermal); H312 Acute Tox. 2 (Inhalation:vapour);H330 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Carc. 2;H351 STOT SE 3;H335 Aquatic Acute 3;H402 Aquatic Chronic 3;H412
Isoeugenol	97-54-1	1.0	Acute Tox. 4 (Oral);H302 Acute Tox. 4 (Dermal); H312 Acute Tox. 4 (Inhalation:dust,mist);H332 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Skin Sens. 1A;H317 STOT SE 3;H335 Aquatic Acute 2;H401
Linalool	78-70-6	0.1	Acute Tox. 5 (Oral);H303 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Skin Sens. 1B;H317 Aquatic Acute 3;H402
Methyl salicylate	119-36-8	0.1	Skin Irrit. 3;H316 Repr. 2;H361 Aquatic Acute 3;H402 Acute Tox. 4 (Oral);H302

4. FIRST AID MEASURES

4.1 Description of first aid measures

- Ingestion:** Do not induce vomiting, give a glass of water. Seek urgent medical attention and show this information.
- Inhalation:** Remove casualty to fresh air, keep respiratory passages clear and seek urgent medical attention.
- Eye contact:** Irrigate with sterile water or saline for at least 15 minutes. Seek urgent medical attention if irritation persists or tissue damage is apparent.
- Skin contact:** Remove contaminated clothing wash thoroughly with soap and water and rinse. If causes irritation after prolonged contact, if so seek medical advice.

5. FIRE-FIGHTING MEASURES

- 5.1 Extinguisher** Use CO₂, Foam or Powder extinguishers only.
DO NOT USE WATER JETS.
- 5.2 Special hazards** Avoid inhalation of smoke or fumes, may produce CO (carbon monoxide) and CO₂ (carbon dioxide).

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Safety Precautions** Avoid contact with skin and eyes. Wear safety gloves, clothing and glasses.
(Consult sections 7 & 8 for additional information)
- 6.2 Environmental Safety Precautions** Eliminate all sources of ignition.
Prevent any material entering drains or waterways
- 6.2 Methods and materials for containment and clean up** Absorb spills into an inert absorbent material
(e.g. proprietary oil drying granules or sand NOT sawdust or other flammable materials.)
Wash area clean with water and detergent.
Transfer all waste to an approved waste disposal container, observing national legislation.

7. HANDLING AND STORAGE

- 7.1 Handling Precautions** Only use in a well ventilated area. Observe good housekeeping procedures when handling the product. Do not eat, drink or smoke.
- 7.2 Storage Precautions** Product is stable at room temperature.
Keep away from sources of ignition.
Store in tightly sealed containers, in a cool dry place away from direct sunlight.
Prevent access by unauthorised personnel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

- Ingredient comments:** No exposure limits known

8.2 Exposure controls

- Respiratory Protection:** Ensure adequate ventilation.
If ventilation is insufficient use approved respirators.
- Skin/Hand Protection:** Wear personal protective equipment. Use chemical resistant safety gloves.
Polyvinyl alcohol or nitrile rubber gloves are recommended.
- Eye/Face Protection:** Wear safety glasses/visors. Ensure eye washes are available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Pale straw coloured
Odour:	Ethereal, ambered odour
Odour threshold:	No information available
pH:	No information available
Melting point:	No information available
Initial boiling point and range:	No information available
Flash point:	100°C
Evaporation rate:	No information available
Evaporation factor:	No information available
Flammability (solid, gas):	No information available
Upper flammability or explosive limits:	No information available
Lower flammability or explosive limits:	No information available
Other flammability:	No information available
Vapour pressure:	No information available
Vapour density:	No information available
Relative density@ 20°C:	1.041 - 1.054
Bulk density:	No information available
Solubility(ies):	No information available
Partition coefficient:	No information available
Auto-ignition temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Explosive properties:	No information available
Explosive under influence of a flame:	No information available
Oxidising properties:	No information available

9.2. Other information

Refractive index@ 20°C:	1.528 - 1.537
Particle size:	No information available.
Molecular weight:	No information available.

10. STABILITY AND REACTIVITY

<u>10.1. Reactivity</u>	There are no known reactivity hazards associated with this product.
<u>10.2. Chemical stability</u>	Stable at normal ambient temperatures and when used as recommended.
<u>10.3. Possibility of hazardous reactions</u>	Will not polymerise.
<u>10.4. Conditions to avoid</u>	Keep away from any source of ignition.
<u>10.5. Incompatible materials</u>	Avoid strong oxidisers, acids and alkalis.
<u>10.6. Hazardous decomposition products</u>	Decomposition may release carbon dioxide, carbon monoxide and other organic compound fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Oral LD50: 2.6g/Kg
Dermal LD50: 5.0g/Kg

This product is NOT intended for oral use.

LD50 dosage levels are only a guideline obtained from historical data, Aroma Trading Ltd does not test its products on animals.

97-53-0	Eugenol	Oral, LD50: 1930 mg/kg (rat)
87-44-5	Beta-Caryophyllene	Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)
119-36-8	Methyl Salicylate	Oral, LD50: 890 mg/kg (ATE) Oral, LD50: 887 mg/kg (rat)
98-01-1	2-furaldehyde	Oral, LD50: 65 mg/kg (rat)

Skin corrosion/irritation:	Causes mild skin irritation
Serious eye damage/irritation:	Causes serious eye irritation
Respiratory sensitisation:	May be harmful if swallowed
Skin sensitisation:	May cause an allergic skin reaction
Germ cell mutagenicity:	No information available
Carcinogenicity:	No information available

11.2 Information on other hazards

Endocrine disrupting properties : No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

84961-50-2	Eugenia caryophyllus	CE50/48h: 1,9 mg/l (daphnia) (QSAR) ErC50(0-72h): 41 mg/l (algae) (QSAR) 96h-LC50: 3,2 mg/l (fish) (calculated)
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12.2 Persistence and degradability Readily biodegradable.

12.3 Bioaccumulative potential Bioaccumulation is unlikely

1.4 Mobility in soil No information available

12.5 Results of PBT and vPvB assessment No information available

12.6 Endocrine disrupting properties No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not pour into drains or waterways.
Care must be used to prevent the product contaminating rivers, waterways or drains. Should this happen alert the relevant authorities in accordance with statutory procedures

Comply with local and national regulations for waste disposal.
Empty containers should be washed thoroughly with detergent before being sent for disposal.
Washings should be disposed of as waste.

14. TRANSPORT INFORMATION

Transport this product in compliance with and provision of, the ADR/RID for Road and Rail, IMDG for Sea and ICAO/IATA for Air transportation.

UN Shipping Name (N.O.S.): NON HAZARDOUS LIQUID
ADR/RID (Road/Rail): Not restricted
IMDG-CODE (Sea): Not listed
ICAO/IATA (Air): Not regulated
UN Number:
Packing Group:
Subsidiary Risk:
Packing Instructions: Non-hazardous substance, transport in suitable container.

Labelling according to ADR/RID, IMDG/IMO and ICAO/IATA:

UN Shipping Name: NON HAZARDOUS LIQUID

15. REGULATORY INFORMATION

Product Classification: CLOVE BUD OIL

This product is labelled according to the criteria of Directive CLP 1272/2008/EC.

Classification:



WARNING

<u>Hazard Categories:</u>	ATO 5	May be harmful if swallowed
	ATD 5	May be harmful in contact with skin
	EDI 2A	Causes serious eye irritation
	SCI 3	Causes mild skin reaction
	SS 1	May cause an allergic skin reaction
	EH A2	Toxic to aquatic life

16. ADDITIONAL INFORMATION

Legal disclaimer:

The information given on this material health and safety sheet is not a warranty as to the performance or suitability of the product. The information must be regarded only as a description of the health, safety and environmental requirements for that product. The information contained herein is true and accurate to the best of our knowledge and belief, but does not claim to be all inclusive.

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