


1. Identification of the substances / mixture and of the company/undertaking.			
1.1 Product identifier: Clove Bud Oil Madagascar			
Substance name: Eugenia Caryophyllus Bud Oil			
EC NO: 284-638-7		CAS NO: 8000-34-8	EINECS CAS Number: 84961-50-2
Index No:		Reach Registration No:	
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified uses: Multiple uses in the Flavour and Fragrance industries.			
Uses advised against:			
1.3 Details of the supplier of the safety data sheet			
Company		Penny Price Aromatherapy Ltd	
		Unit D3 Radius Court	
		Maple Drive	
		Hinckley	
		Leicestershire LE10 3BE	
Email		info@penny-price.com	
1.4 Emergency Telephone Number		00 44 (0) 1455 251020 opening hours Mon – Thurs 9am – 5pm, Fri 9am – 2pm. Or call NHS 111 or NHS 999	

2. Hazards Identification			
2.1 Classification of the substance or mixture			
Classified according to Regulation (EC) 1272/2008 (CLP) as amended	Physical and Chemical Hazards		
	Human Health		
	Environment		
2.2 Label Element Labelling according to Regulation (EC) No.1272/2008:			
			
Signal Word. DANGER			
Hazard statements.			
H303	May be fatal if swallowed.	H304	May be fatal if swallowed and enters airways.
H313	May be harmful I 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.		
Precautionary statements.			
P262	Do not get in eyes, on skin or on clothing.		
P280	Wear protective gloves / protective clothing / eye protection / face protection.		

P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE or Doctor
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do -continue rinsing.
P331	Do NOT induce vomiting.
2.3 Other hazards – Results of PBT and vPvB	
	No relevant information available.

3. 1 Composition / information on ingredients:			
Substance name	Index number under CLP Annex VI	Weight % content (or range)	CL, M-Factor, ATE
Eugenol	CAS: 97-53-0 EC: 202-589-1	50-100%	Eye Irrit. 2 – H319 Skin Sens. 1B -H317
Allyl-2-methoxyphenyl Acetate	CAS: 93-28-7 EC: 202-235-6	2.5 -10%	Acute Tox. 4 -H302
Methyl Eugenol	CAS: 93-15-2 EC: 202-223-0	≤2.5%	Muta. 2- H341 Carc. 2 -H351 Acute Tox. 4 H302

4. First Aid Measures	
4.1 General	Immediately remove any clothing soiled by the product.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if required.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
Skin contact	Take off all contaminated clothing. Rinse skin with water/shower. If irritation persists seek medical attention
Ingestion	Rinse mouth out with water. Do NOT induce vomiting. Immediately call POISON CENTER or GP. Do not give milk or fatty oils.
4.2 Most important symptoms and effects, both acute and delayed:	
	No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment need	
	Symptomatic treatment as required.
5. Firefighting Measures	
5.1 Extinguishing Media:	
Suitable extinguishing media:	Foam, CO2, Dry Powder
Unsuitable extinguishing media:	
5.2 Special hazards arising from the substances or mixture	
Hazardous combustion products:	Combustion Products: Carbon monoxide, Carbon dioxide, smoke.
Advice for firefighters	Do not use water as extinguishing media. No special firefighting equipment needed.

6 Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures	
6.1.1 For non-emergency personnel: Wear clothing suitable for an emergency.	
Protective equipment:	
Emergency procedures:	
6.1.2 For Emergency responders	
6.2 Environmental precautions	Contain the leak with earth or sand. Prevent from entering drains, sewers, and water courses. If this cannot be done, advice the local authority.
6.3 Methods for cleaning up –	Absorb spillage onto sand or earth. Transfer to suitable container for disposal.
6.3.1 For containment:	
6.3.2 For cleaning up:	
6.3.3. Other information:	
6.4 Reference to other sections	

7. Handling and storage	
7.1 Precautions for safe handling	
Protective measures: Prevent formation of aerosols. Handle in a well-ventilated area, away from sources of ignition. DO NOT SMOKE.	
Measures to prevent fire:	
Measures to prevent aerosol and dust generation:	
Measures to protect the environment:	
Advice on general occupational hygiene:	
7.2 Conditions for safe storage, including any incompatibilities	
Technical measures and storage conditions:	
Packaging Materials:	
Requirements for storage and vessels:	

Storage Class:	Store in well-fitted, tightly closed original containers away from heat, light and sources of ignition.
Further information on storage containers:	
7.3 Specific end use(s).	Used in Flavours and Fragrances.
Recommendations:	
Industrial sector specific solutions:	

8. Exposure controls/Personal protection

8.1 Control parameters	No information available.
8.2 Exposure controls	
Engineering Measures	Use suitable handling equipment.
8.2.2 Personal Protection equipment	
8.2.2.1 Eye / face protection	Wear safety goggles.
8.2.2.2 Skin Protection	Wear suitable protective clothing.
Hand protection	Wear gloves.
Other skin protection	
8.2.2.3 Respiratory protection	Use only in well ventilated areas. Use protection in poor ventilation.
Ventilation	
8.2.2.4 Thermal hazards	
8.2.3 Environmental exposure controls	

9. Physical and chemical properties- C of A

9.1 Information on basic physical and chemical properties

Colour	Clear
Appearance	Mobile liquid
Odour	Characteristic of Clove
Odour Threshold	No data available
Melting Point / freezing point	
Boiling point /Initial boiling point & boiling range	
Flammability	Combustible
Lower and upper explosion limit	No data available
Flash point °C	>93°C
Evaporation Rate	No data available
Auto- ignition temperature	No data available
Decomposition temperature	No data available
pH	Not applicable
Kinematic Viscosity	No data available
Solubility in Water	Sparingly soluble.

Solubility in other Solvents	Soluble
Partition coefficient n-octanol/ water (log value)	No data available
Vapour Pressure	No data available
Density and /or relative density	1.039 to 1.049
Relative vapour density	No data available
Particle characteristics	
Explosive Properties	No data available
Oxidising Properties	None
9.2 Other information	No further information available.
Specific gravity d ₂₀ ²⁰	
Optical rotation @ 20°C	
Refractive index @ 20°C	
Typical analysis of major components	

10. Stability and reactivity	
10.1 Reactivity	Will react with oxidising agents.
10.2 Chemical Stability	Stable under proper storage conditions.
10.3 Possibility of hazardous reactions:	Not if stored correctly.
10.4 Conditions to avoid:	Do not leave containers open to the air. Avoid storage at elevated temperatures and sources of ignition.
10.5 Incompatible Materials:	Oxidising agents
10.6 Hazardous Decomposition Products	On combustion may produce smoke, carbon monoxide and carbon dioxide.

11. Toxicological information	
11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008	
Information on Toxicological Effects	This product had not been tested. Judgements on the expected toxicity on this product have been based upon consideration of its major components.
Acute toxicity:	Oral Toxicity: LD ₅₀ 1370 mg/kg (Rat) Dermal Toxicity: 1200 mg/kg (Rabbit)
Skin corrosion /irritation:	Causes skin irritation.
Seriously eye damage/irritation:	May cause eye irritation.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available

Summary of evaluation of the CMR properties:	
STOT- single exposure,	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available

12. Ecological information	
12.1 Toxicity	No data available
12.2 Persistency & degradability	No data available
12.3 Bio accumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB Assessment	No data available
12.6 Endocrine disrupting properties	
12.7 Other adverse effects	

13. Disposal considerations	
Please refer to the information in Section 8 (Exposure Controls and Personal Protection).	
13.1 Waste treatment methods	Do not dispose into drainage systems. Ensure disposal is within local and national guidelines. Consult a specialist waste disposal company for correct disposal procedure and/ or seek other expert advice.
13.1.1. Product /Packaging disposal:	
13.1.2 Waste treatment-relevant information:	
13.1.3 Sewage disposal-relevant information:	
13.1.4 Other disposal-relevant recommendations:	Dispose of contents / container in accordance with local / regional / national / international guidelines.

14. Transport information	
14.1 UN Number or ID number	No Class
14.2 UN proper Shipping name	Clove Bud Oil
14.3 Transport hazard class(es) ADR, IMDG, ICAO	No class
14.4 Packing group	No class
14.5 Environmental hazards	
14.6 Special precautions for user	
14.7 Maritime transport in bulk according to IMO instruments	

15 Regulatory information

15.1 Safety, health, and environmental regulations / legislation specific for the substance or mixture

I.e., EU Directives	This substance is listed as existing in Europe.
15.2 Chemical Safety Assessment	A chemical safety assessment has not been carried out for this product.

16. Other information

(i) **Indication of Changes: Revised Safety Data Sheet Format:** From March 2019. – Section 2 and 3 have changed places, additional points added under each section in line with Regulation EC) No 1272/2008 Version 4.2 March 2021'.

(ii) Abbreviations and acronyms:

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Good by Rail).

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the 'International Civil Aviation Organisation" (ICAO)

ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal Dose, 50 percent

PBT: Persistent, Bio accumulative and Toxic

vPvB: Very Persistent and very Bio accumulative

Flam. Liq: Flammable Liquid

AT: Acute Toxicity

Asp: Aspiration Hazard

Skin Corr/ Irrit: Skin Corrosion / Irritation

Skin Sens: Skin Sensation

Eye Dam/ Irrit: Eye damage / Irritation

Muta: Mutagenic

Carc: Carcinogenic

Resp: Respiration Sensitive

Repro: Reproductive Sensitive

EH A: Environmental Hazard Aquatic Acute

EH C: Environmental Hazard Aquatic Chronic

(iii) Key Literature references and sources of date.

Food Cosmetics Toxicology 16 695 (1978)

(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):	
Classification according to Regulation (EC) 1272/2008(CLP)	Classification procedure
(v) Relevant H-statements (number and full text):	
(vi) Training advice:	
(vii) Further information:	
Shelf life	Minimum 12 months when stored in the advised conditions.
QC requirements	
In line with general product specification. Always satisfy suitability for specific application. Retest after 6 months.	
Disclaimer:	
The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is date supplied without warranty, expressed, or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product and to assume liability for loss, injury, damage, or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification or for any given application and buyers should seek to verify their requirements and product use.	