



## Material safety data sheet

According to EU Regulation 1907/2006 in the current version

### CLOVE BUD PURE ESSENTIAL OIL

#### 1. Identification of the substance/mixture and company

Trade name: Clove Bud Pure Essential Oil  
I.N.C.I. Eugenia Caryophyllus Flower Oil  
CAS No. : 84961-50-2  
EINESCS No. : 904-912-8 / 284-638-7  
REACH pre-registration No. : /  
Utilization: Raw material for cosmetic or professional use  
Supplier company identification: **Elemental SRL**, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania  
Tel/Fax: +40259-436.755, www.elemental.eu  
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606  
Institutul de Sănătate Publică București.  
International emergency number: +49 180 2273-112

#### 2. Hazards Identification

##### 2.1 Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302

Acute toxicity (dermal), Category 4 H312

Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye irritation, Category 2 H319

Skin sensitisation, category 1B H317

Aspiration hazard, Category 1 H304

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

##### 2.2 Label elements

Hazard pictograms(CLP):



GHS07



GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H302+H312 - Harmful if swallowed or in contact with skin.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

P312 - Call a POISON CENTRE or doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.



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### 3. Declaration of ingredients

#### 3.1. Substances

Name	Product identifier	%
CLOVE BUDS ESSENTIAL OIL 100% pure and natural	(CAS-No.) 84961-50-2 (EC-No.) 904-912-8 (284-638-7) (REACH-no) 01-2119970580-36	100

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

### 4. First aid measures

#### 4.1 Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell

#### 4.2 Main symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : May cause an allergic skin reaction

#### 4.3 Indication to consult a physician immediately or any special treatments

Treat symptomatically

### 5. Fire fighting measures

#### 5.1 Means of extinction

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3 Recommendations for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective devices and emergency procedures



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Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2 Environmental precautions

Avoid release to the environment.

#### 6.3 Methods and materials for containment and remediation

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4 Reference to other sections

For further information refer to section 13.

## 7. Handling and storage

#### 7.1 Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.  
Always wash hands after handling the product.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

#### 7.3 Specific end uses

No additional information available

## 8. Exposure controls / personal protection

#### 8.1 Control parameters

No data available

#### 8.2 Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.



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## 9. Physical and chemical properties

### 9.1 Information on physical and chemical properties

Physical state : Liquid  
Appearance : liquid at room temperature. more or less viscous.  
Colour : Yellow. light brown.  
Odour : woody, spicy.  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : Not applicable  
Freezing point : No data available  
Boiling point : No data available  
Flash point : 100 °C  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : Not applicable  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : 1.042 - 1.065  
Solubility : No data available  
Log Pow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : No data available  
Refractive index : 1.528 - 1.538

### 9.2 Other information

None

## 10. Stability and reactivity

### 10.1 Responsiveness

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of dangerous reactions

No dangerous reactions known under normal conditions of use.

### 10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5 Incompatible materials

No additional information available

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Harmful in contact with skin.  
Acute toxicity (inhalation) : Not classified  
LD50 oral rat  $\approx$  1370 mg/kg  
LD50 dermal rabbit  $\approx$  1200 mg/kg  
Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : May be fatal if swallowed and enters airways.

## 12. Ecological information

### 12.1 Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : Not classified  
Chronic aquatic toxicity : Not classified

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulation potential

No data available

### 12.4 Ground mobility

No data available

### 12.5 Results of PBT and vPvB assessment

No data available e

### 12.6 Other adverse effects

No data available

Further information: no heavy metals and inorganic components

## 13. Disposal considerations

### 13.1 Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## 14. Transport information



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ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user  
Overland transport Not regulated  
Transport by sea Not regulated  
Air transport Not regulated  
Inland waterway transport Not regulated  
Rail transport Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
Not applicable

## 15. Regulatory information

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code Applicable on

3(b) CLOVE BUDS ESSENTIAL OIL 100% pure and natural

CLOVE BUDS ESSENTIAL OIL 100% pure and natural is not on the REACH Candidate List

CLOVE BUDS ESSENTIAL OIL 100% pure and natural is not on the REACH Annex XIV List

CLOVE BUDS ESSENTIAL OIL 100% pure and natural is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

CLOVE BUDS ESSENTIAL OIL 100% pure and natural is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.2 Chemical safety assessment.

No chemical safety assessment has been carried out

## 16. Additional information

16.1 Abbreviations:



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ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

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

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

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

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation

#### DECLARATION OF ALLERGENS

##### 7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

ALLERGENS	CAS	%
Anisyl alcohol	105-13-5	nd
Benzyl alcohol	100-51-6	nd
Cinnamyl alcohol	104-54-1	nd
Benzyl benzoate	120-51-4	≤ 0,01
Benzyl cinnamate	103-41-3	nd
Benzyl salicylate	118-58-1	nd



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Cinnamal	104-55-2	nd
Citral	5392-40-5	nd
Citronellol	106-22-9	nd
Coumarin	91-64-5	nd
D-limonene	5989-27-5	≤ 0,01
Eugenol	97-53-0	≤ 90,00
Farnesol	4602-84-0	≤ 0,01
Geraniol	106-24-1	nd
Isoeugenol	97-54-1	≤ 0,20
Linalool	78-70-6	≤ 0,10
Tree moss	90028-67-4	nd
Oak moss	90028-68-5	nd
Phenylacetaldehyde	122-78-1	nd

**Disclaimer:**

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.