

Material Safety Data Sheet / MSDS (I907/2006/EC Article 31)

CLOVE BUD ORGANIC ESSENTIAL OIL

VERSION I: 24.7.2026

SECTION 01:

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

ORIGIN:	Madagascar
PRODUCT'S NAME:	Clove bud organic essential oil
INCI NAME:	Eugenia Caryophyllus Oil
BOTANICAL NAME:	Eugenia Caryophyllus
CAS Number:	8000-34-8/ 84961-50-2
EC Number:	904-912-8
EINECS CAS Number:	/

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Application of the substance:

- Flavouring agent
- Cosmetic ingredient
- Aromatherapy use

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

SUPPLIER:	BOHDEI d.o.o.
ADDRESS:	Pavlova vas 66 8255 Pisece Slovenia, EU
E-MAIL:	info@amonanis.si
TELEPHONE:	+386 70 184 666

1.4 EMERGENCY TELEPHONE NUMBER

+386 70 184 666

SECTION 02: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE (Classification according to Regulation (EC) No 1272/2008)

Acute toxicity (oral), category 4, H302
Acute toxicity (dermal), category 4, H312
Skin irritation/corrosion, category 2, H315
Skin sensitization, category 1, H317
Eye Irritation, category 2, H319

2.2 LABEL ELEMENTS (Labelling according to Regulation (EC) No 1272/2008)

Pictograms:



Signal word: Danger

Hazard statements:

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:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

2.3 OTHER HAZARDS

No data available.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

NCS (natural complex substance): 100% pure and natural essential oil

List of principal components:

Name of component	CAS Number	EC Number	% composition	Classification Regulation (EC) No 1272/2008
Eugenol	97-53-0	202-589-1	50 - 100	H317 - Skin Sens. 1B, H319 - Eye Irrit. 2
Eugenyl acetate	93-28-7	202-235-6	10 - 20	H302 - Acute Tox. 4, H317 - Skin Sens. 1

Beta-Caryophyllene	87-44-5	20I-746-I	5 - I0	H304 - Asp. Tox. I, H317 - Skin Sens. IB
Methyl Salicylate	119-36-8	204-317-7	0.I - I	H302 - Acute Tox. 4, H317 - Skin Sens. IB, H318 - Eye Dam. I, H361d - Repr. 2, H412 - Aquatic Chronic 3
2-Furaldehyde	98-01-I	202-627-7	0.I - I	H226 - Flam. Liq. 3, H301 - Acute Tox. 3, H312 - Acute Tox. 4, H315 - Skin Irrit. 2, H319 - Eye Irrit. 2, H335 - STOT SE 3, H351 - Carc. 2, H412 - Aquatic Chronic 3

SECTION 04:

FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General information:	Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48 hours after the accident. Seek immediate medical advice. Never give anything by mouth to an unconscious person. It is recommended that those who provide first aid have a personal protective equipment. No action shall be taken involving any personal risk or without suitable training.
After inhalation:	Supply fresh air. Do not administer anything orally. If unconscious, place them in a suitable position. Seek medical assistance.
After skin contact:	Remove contaminated clothing. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
After eye contact:	Check for and remove any contact lenses. Rinse opened eyes for at least 10 minutes under running water while pulling eyelids up. Don't let the person to rub the affected eye. If symptoms persist, consult a doctor.
After swallowing:	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, keep head down to prevent the passage of vomit into the lungs. Move exposed person to fresh air. If unconscious, place them in a suitable position. Seek medical assistance.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis. Inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract.

Some symptoms may not be immediate.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Get medical attention if any discomfort is felt, and bring these instructions.

SECTION 05:**FIREFIGHTING MEASURES****5.1 EXTINGUISHING MEDIA****Suitable extinguishing agents:**

CO₂, sand, foam, extinguishing powder.

Unsuitable extinguishing agents:

Water with full jet or fog (spray).

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire hazards: The product is not flammable.

Formation of toxic gases is possible during heating or in case of fire.

5.3 ADVICE FOR FIREFIGHTERS

Standard procedure for chemical fires.

Spray extinguishing media to base of flames.

Fire precautions:

Evacuate the area.

Container may explode in the heat of a fire.

Cool endangered receptacles with water spray. Take wind direction into account.

Move undamaged containers from immediate hazard area if it can be done safely.

Protective equipment:

Do not intervene without suitable protective equipment.

Use full face, self-contained breathing apparatus.

Full body protection.

SECTION 06:**ACCIDENTAL RELEASE MEASURES****6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES****For first aiders:**

Wear protective equipment.

Ensure adequate ventilation.

Plug the leak if it is safe to do so.

Keep away from ignition sources.

Keep unprotected persons away.

For non-rescuers:

Ventilate the spill area.

Avoid contact with skin and eyes.

Avoid inhalation of gases, vapours or smoke.

Do not smoke.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Dispose contaminated material as waste according to item I3.

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 07: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Individual precautions

Apply good manufacturing practice and industrial hygiene practices.

Do not eat, drink or smoke while handling.

Avoid contact with skin and eyes.

Do not inhale the vapors, do not swallow.

Prevent access to persons not required.

Wear personal protective equipment.

Wash your hands after any manipulation.

Contaminated work clothes should not leave the workplace.

Packaging precautions

Store in original container or other container approved alternative made from a compatible material.

Keep receptacles tightly sealed when not in use.

Avoid spills.

Empty containers retain residue product.

Keep away from heat, sparks, open flame and direct sunlight.

Do not use tools that can cause sparks.

Avoid exposing to high temperatures during processing.

Handle with care. Avoid jolting, friction and impact.

Working area protection

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Protect against electrostatic charges.

Electrical equipment has to be protected according to applicable standards.

Avoid release to the environment.

Use appropriate container to avoid environmental contamination.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Use only receptacles specifically permitted for this substance/ product. Avoid PVC.

Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Keep container tightly sealed.

Store the containers between 5 and 25° C in a dry and dark place.

Protect from heat and direct sunlight.

Do not smoke near the product.

Store receptacle in a well ventilated area.

Keep away from oxidising agents and from highly acidic or alkaline materials.

Information about storage in one common storage facility:

Not required.

7.3 SPECIFIC END USE(S)

No data available.

SECTION 08:

EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Ingredients with limit values that require monitoring at the workplace:

Not required.

8.2 EXPOSURE CONTROLS



General protective and hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Ensure good ventilation of the working area. Provide eyewash station. Avoid static discharges in working area. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Do not inhale dust / smoke / mist. Avoid contact with the skin. Avoid contact with the eyes.
Respiratory protection:	Avoid breathing vapors. Use suitable respiratory protective device in case of insufficient ventilation. Wear full face mask supplied with gas cartridge suitable for organic substances (Filter A2 type).
Protection of hands:	Avoid skin contact. Wear suitable protective gloves resistant to chemical agents in accordance with standard EN374. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Type of gloves recommended Nitrile rubber or PVA (Polyvinyl alcohol).
Skin protection:	Wear apron or protective clothing in case of splashes.
Eye/face protection:	Avoid contact with eyes. Wear approved safety goggles with built in frame tested to EN166.
Body protection:	Impervious protective clothing. Boots.
Environmental exposure control:	Avoid release into the environment.

SECTION 09:

PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION	
PHYSICAL STATE:	Liquid
COLOUR:	Transparent do dark yellow
ODOUR:	Warm, spicy, oriental
ODOUR THRESHOLD:	Not determined
BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE:	270°C
FLAMMABILITY:	Not determined
LOWER AND UPPER EXPLOSION LIMIT:	Not determined
FLASH POINT:	+141°C, NFT 60-103 CC
DECOMPOSITION TEMPERATURE:	Not determined
PH:	Not determined
VISCOSITY:	Not determined
DYNAMIC:	Not determined
SOLUBILITY WATER:	At 20,00 °C 2,30 g/l
PARTITION COEFFICIENT N-OCTANOL/WATER (LOG VALUE)	Not determined
VAPOUR PRESSURE:	At 20,00 °C 0,0090 mbar
DENSITY AND/OR RELATIVE DENSITY:	1.042 – 1.065 D20/20

9.2 OTHER INFORMATION

No data available.

SECTION 10:
STABILITY AND REACTIVITY
10.1 REACTIVITY

Stable under recommended storage conditions.

10.2 CHEMICAL STABILITY

Stable under recommended storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Not expected under normal temperature conditions and recommended use.

10.4 CONDITIONS TO AVOID

Avoid any improper handling.

10.5 INCOMPATIBLE MATERIALS

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No decomposition if used for the intended uses.

SECTION II:**TOXICOLOGICAL INFORMATION****II.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008****LD/LC50 values relevant for classification:**

Acute Dermal Toxicity: 1200 mg/kg (Rabbit) (calculated)

Acute Oral Toxicity: 1370 mg/kg (rat) (calculated)

Acute Inhalation: No data available.

Primary irritant effect:

Skin Corrosion/irritation: No data available.

Serious eye damages/irritation: Eye irritation, Category 2: Causes serious eye irritation.

Respiratory or skin sensitisation: May cause an allergic skin reaction (H317)

Germ cell mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive toxicity:

No data available.

STOT-single exposure:

No data available.

STOT-repeated exposure:

No data available.

Aspiration hazard:

May be fatal if swallowed and enters airways (H304).

Photo-toxicity:

No data available.

II.2 INFORMATION ON OTHER HAZARDS

No data available.

SECTION I2:**ECOLOGICAL INFORMATION****I2.1 TOXICITY****Aquatic toxicity:**

8000-34-8 Syzygium aromaticum (L.) Merr. & L.M.Perry (Syn: Eugenia caryophyllus (Sprengel) Bullock et S. Harrison)

CE50/48h: 1,9 mg/l (daphnia) (QSAR)

ErC50(0-72h): 41 mg/l (algae) (QSAR)

96h-LC50: 3,2 mg/l (fish) (calculated)

I2.2 PERSISTENCE AND DEGRADABILITY

No data available.

Behaviour in environmental systems:

Not determined.

12.3 BIOACCUMULATIVE POTENTIAL

No data available.

12.4 MOBILITY IN SOIL

No further relevant information available. Do not leave the product, even diluted or in great quantity, penetrate the ground water, water or the drains.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

No data available.

12.6 ENDOCRINE DISRUPTING PROPERTIES

No data available.

12.7 OTHER ADVERSE EFFECTS

No data available.

Ecotoxical effects:

Not determined.

Additional ecological information:

Not determined.

SECTION 13:**Disposal considerations****13.1 WASTE TREATMENT METHODS****Recommendation:**

Must be specially treated adhering to official regulations.

Uncleaned packaging:

Disposal must be made according to official regulations.

SECTION 14:**TRANSPORT INFORMATION**

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions.

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading.

Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

14.1 UN NUMBER OR ID NUMBER

ADR/ADN/RID: not regulated

IMDG: not regulated

ICAO/IATA: not regulated

14.2 UN PROPER SHIPPING NAME

ADR/ADN/RID: not regulated

ADDRESSBOHDEI d.o.o.
PAVLOVA VAS 66
8255 PISECE, SLOVENIA
EUROPE, EU**CONTACT**+386 5 992 6668
+386 70 184 666
info@amonanis.si
www.amonanis.siVAT: SI36838217
IBAN: SI56 6100 0002 8475 376
BANK: Delavska hranilnica
SWIFT: HDELSI22IMDG: not regulated
ICAO/IATA: not regulated**I4.3 TRANSPORT HAZARD CLASS(ES)**ADR/ADN/RID: not regulated
IMDG: not regulated
ICAO/IATA: not regulated**I4.4 PACKING GROUP**ADR/ADN/RID: not regulated
IMDG: not regulated
ICAO/IATA: not regulated**I4.5 ENVIRONMENTAL HAZARDS**

Marine pollutant(s): not concerned

I4.6 SPECIAL PRECAUTIONS FOR USER

Not concerned.

I4.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not concerned.

I4.8 ADDITIONAL INFORMATION

Customs Code : 3301 2911

SECTION 15:**REGULATORY INFORMATION****I5.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer. Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

I5.2 CHEMICAL SAFETY ASSESSMENT:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16:**OTHER INFORMATION**

The information in this safety data sheet is based on the state of our knowledge at the date indicated. The information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document. The required information complies with EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.

ADDRESSBOHDEI d.o.o.
PAVLOVA VAS 66
8255 PISECE, SLOVENIA
EUROPE, EU**CONTACT**+386 5 992 6668
+386 70 184 666
info@amonanis.si
www.amonanis.siVAT: SI36838217
IBAN: SI56 6100 0002 8475 376
BANK: Delavska hranilnica
SWIFT: HDELSI22**Classification codes:**

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
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.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Training hints:

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in the purpose of facilitating the understanding and interpretation of this form of safety data in the same way as the labeling of the product.

Abbreviations and acronyms:

IFRA: International Fragrance Association
IOFI: International Organization of the Flavor Industry
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
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, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Sources:

IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information
<http://eur-lex.europa.eu/homepage.html>
<http://echa.europa.eu/>
Regulation (EU) No 2020/878.
Regulation (EU) No 2015/830.
Regulation (EC) No 1907/2006.
Regulation (EU) No 1272/2008.