

SAFETY DATA SHEET  
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : **Madagascar flower and spices - natural fragrance**

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

Cosmetic-grade fragrance compound

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin sensitisation, Category 1A (Skin Sens. 1A, H317).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**2.2. Label elements**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS07

Signal Word :

WARNING

Product identifiers (list of classified components) :

202-589-1 EUGENOL

203-213-9 CINNAMIC ALDEHYDE

203-377-1 GERANIOL  
227-813-5 D-LIMONENE

Hazard statements:

H317 May cause an allergic skin reaction

Precautionary statements - Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements - Response:

P302+P352 IF ON SKIN: Wash with plenty of water/...

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

Precautionary statements - Disposal:

P501 Dispose of contents/container in accordance with local regulation.

### 2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Identification	(EC)1272/2008	Note	%
CAS: 140-11-4 EC: 205-399-7 BENZYL ACETATE	Aquatic Chronic 3, H412	[1]	2,5 $\leq$ x % < 10
CAS: 78-70-6 EC: 201-134-4 LINALOOL	GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315		2,5 $\leq$ x % < 10
CAS: 60-12-8 EC: 200-456-2 REACH: 01-2119963921-31-0000 PHENYLETHYL ALCOHOL	GHS07 Wng Acute Tox. 4, H302 Eye Irrit. 2, H319		1 $\leq$ x % < 2,5
CAS: 97-53-0	GHS07		

EC: 202-589-1 REACH: 01-211971802-33-0000 EUGENOL	Wng Eye Irrit. 2, H319 Skin Sens. 1B, H317		0<=x%<1
CAS: 104-55-2 EC: 203-213-9 REACH: 01-2119935242-45-0000 CINNAMIC ALDEHYDE	GHS07 Wng Acute Tox. 4, H312 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1A, H317		0<=x%<1
CAS: 5989-27-5 EC: 227-813-5 D-LIMONENE	GHS08, GHS02, GHS07, GHS09 Dgr Asp. Tox. 1, H304 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0 <= x % < 1
CAS: 106-24-1 EC: 203-377-1 GERANIOL	GHS05, GHS07 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318		0 <= x % < 1

#### Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available.

#### SECTION 4: FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

##### 4.1. Description of first aid measures

###### In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

###### In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

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Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

#### **In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

#### **4.2. Most important symptoms and effects, both acute and delayed**

No data available.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

### **SECTION 5 : FIRE FIGHTING MEASURES**

Non-flammable

#### **5.1 Extinguishing media**

##### **Suitable methods of extinction**

In the event of a fire, use:

- sprayed water or water mist

##### **Unsuitable methods of extinction**

In the event of a fire, do not use:

- water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

#### **5.3 Advice for firefighters**

No data available.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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### **6.1 Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

#### **For non first aid worker**

Avoid any contact with the skin and eyes

#### **For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### **6.2 Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways.

### **6.3 Methods and material for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

### **6.4 Reference to other sections**

No data available.

## **SECTION 7: HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled. Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

### **7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before reusing.

Ensure that there is adequate ventilation, especially in confined areas.

#### **Fire prevention :**

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

#### **Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

#### **Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the substance is used.

### **7.2. Conditions for safe storage, including**

No data available

### Storage

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

### Packaging

Always keep in packaging made of an identical material to the original.

### 7.3. Specific end use(s)

No data available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational exposure limits:

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
	140-11-4	10ppm	-	-	-

### 8.2. Exposure controls

#### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

### - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)
- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374.

### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### General information:

Physical state: Fluid liquid

#### Important health, safety and environmental information

pH:	Not relevant
Boiling point/boiling range:	Not specified
Flash Point Interval:	60°C<PE<=93°C
Vapour pressure (at 50°C):	Not relevant
Density:	1,117+/-0,010@20°C
Water solubility:	Insoluble
Viscosity:	v<7mm <sup>2</sup> /s (40°C)
Melting point/melting range:	Not specified

Self ignition temperature: Not specified  
Decomposition point/decomposition range: Not specified  
Index refraction: 1,447+/-0,005

**9.2 Other information:**

No data available

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

No data available

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the substance can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

**10.4. Conditions to avoid****10.5. Incompatible materials****10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage.

May cause an allergic reaction by skin contact.

**11.1.1 Substances****Acute toxicity:**

GERANIOL (CAS: 106-24-1)

Oral route: LD50 = 3600 mg/kg

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CINNAMIC ALDEHYDE (CAS: 104-55-2)	
Oral route:	LD50 = 2500 mg/kg
EUGENOL (CAS: 97-53-0)	
Oral route:	LD50 = 2300 mg/kg
PHENYLETHYL ALCOHOL (CAS: 60-12-8)	
Oral route:	LD50 = 1610 mg/kg
LINALOOL (CAS: 78-70-6)	
Oral route:	LD50 = 2790 mg/kg
BENZYL ACETATE (CAS: 140-11-4)	
Oral route:	LD50 = 2490 mg/kg

### 11.1.2 Complex substances

Non toxicological data available for the substances.

#### Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 97-53-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.2 Complex substance

No aquatic toxicity data available for the substances.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative 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. Other adverse effects

No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

#### Waste :

Waste management is carried out without endangering human health, without

harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14: TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

**SECTION 15: REGULATORY INFORMATION**

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

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :**

NFPA 704, Labelling: Health=2 Flammability=2 Instability/Reactivity=1 Specific Risk=none



**15.2. Chemical safety assessment**

No data available

**SECTION 16: OTHER INFORMATION**

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### DERMAL ALLERGENS

Products	CAS number	Origine		TOTAL (% max.)
		Natural [%]	Synthetic [%]	
Amyl Cinnamyl Alcohol	101-85-9	-	-	-
Amyl Cinnamal	122-40-7	-	-	-
Anise Alcohol	105-13-5	-	-	-
Benzyl Alcohol	100-51-6	0,0308	-	0,0308
Benzyl Benzoate	120-51-4	0,0786	-	0,0786
Benzyl Cinnamate	103-41-3	-	-	-
Benzyl Salicylate	118-58-1	0,0240	-	0,0240
Cinnamyl Alcohol	104-54-1	0,0038	-	0,0038
Cinnamal	104-55-2	0,5048	-	0,5048
Citral	5392-40-5	0,0018	-	0,0018
Citronellol	106-22-9	-	-	-
Coumarine	91-64-5	-	-	-
Eugenol	97-53-0	0,6010	-	0,6010
Farnesol	4602-84-0	0,0199	-	0,0199
Geraniol	106-24-1	0,2120	-	0,2120
Hexyl Cinnamal	101-86-0	-	-	-
Hydroxycitronellal	107-75-5	-	-	-
Isoeugenol	97-54-1	0,0027	-	0,0027
Butyl phenyl methyl propional	80-54-6	-	-	-
d-Limonene	5989-27-5	0,1395	-	0,1395
Linalool	78-70-6	3,1281	-	3,1281

4-Hydroxy Isohexyl-3-Cyclohexene Carboxaldehyde	31906-04-4	-	-	-
Methyl-2-Octynoate	111-12-6	-	-	-
Alpha Iso Methyl Ionone	127-51-5	-	-	-
Evernia prunastri	90028-68-5	-	-	-
Evernia furfuracea	90028-67-4	-	-	-

These concentrations are calculated. "-": <1ppm

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

### Wording of the phrases mentioned in section 3 :

H226	Flammable liquid and vapour.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Abbreviations:

CMR: Carcinogenic, mutagenic or reprotoxic.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.  
ICAO : International Civil Aviation Organisation  
RID : Regulations concerning the International carriage of Dangerous goods by rail.  
WGK : Wassergefährdungsklasse (Water Hazard Class).  
GHS05 : Corrosion  
GHS07 : Exclamation mark  
GHS09 : Environment  
PBT: Persistent, bioaccumulative and toxic.  
vPvB : Very persistent, very bioaccumulative.  
SVHC : Substances of very high concern.