

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

## BALSAMUM PERUVIANUM

EN

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

#### 1.1 Product identifier

Product name: Peru balsam  
Balsamum peruvianum  
Perubalsem  
Baume de Pérou  
Perubalsam

N° CAS: 8007-00-9

N° EC: 232-352-8

#### 1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses: Active Pharmaceutical Ingredient or Excipient.

#### 1.3 Details of the supplier of the safety data sheet

Company: Magis-Pharma NV  
Neerlandweg 24  
2610 Wilrijk  
Belgium

Telephone: (+32) (0)3 457 11 76

Email: info@magis-pharma.be

Web page: www.magis-pharma.be

#### 1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance/mixture

##### Classification according to (EC) n° 1272/2008

Acute Tox. 4	H302
Skin Sens. 1	H317
Aquatic Chronic 2	H411

#### 2.2 Label elements

##### Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Attention

Hazard statements:

H302 Harmful if swallowed.

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H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements:	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
Additional applicable label elements:	Not applicable.

### 2.3 Other hazards

Not available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Product name:	Peru balsam
IUPAC name:	Peru balsam
Synonyms:	Balsam of Peru
N° CAS:	8007-00-9
N° EC:	232-352-8
Molecular Formula:	Not available.
Content:	45.0 per cent <i>m/m</i> to 70.0 per cent <i>m/m</i> of esters, mainly benzyl benzoate and benzyl cinnamate.

### 3.2 Mixtures

Product name:	Benzyl benzoate
IUPAC name:	Benzyl benzoate
Synonyms:	Benzoic acid, phenylmethyl ester Phenylmethyl benzoate
N° CAS:	120-51-4
N° EC:	204-402-9
Molecular Formula:	C <sub>14</sub> H <sub>12</sub> O <sub>2</sub>
Content:	30 – 50 %
Product name:	Benzyl cinnamate
IUPAC name:	Benzyl ( <i>E</i> )-3-phenylprop-2-enoate
Synonyms:	Cinnamein Benzyl alcohol, cinnamic ester
N° CAS:	103-41-3

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N° EC: 203-109-3

Molecular Formula:  $C_{16}H_{14}O_2$

Content: 20 – 25 %

Product name: *trans*-Nerolidol

IUPAC name: (6*E*)-3,7,11-trimethyldodeca-1,6,10-trien-3-ol

Synonyms: (E)-3,7,11-trimethyldodeca-1,6,10-trien-3-ol  
Nerolidol

N° CAS: 40716-66-3

N° EC: 255-053-4

Molecular Formula:  $C_{15}H_{26}O$

Content: 2.5 – 10 %

Product name: Eugenol

IUPAC name: 2-methoxy-4-prop-2-enylphenol

Synonyms: Phenol, 2-methoxy-4-(2-propenyl)  
Eugenic acid

N° CAS: 97-53-0

N° EC: 202-589-1

Molecular Formula:  $C_{10}H_{12}O_2$

Content: 0.1 – 1 %

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

General notes:	Consult a doctor. Show the safety data sheet to the doctor on duty.
After inhalation:	Take to fresh air. If breathing is irregular, call a doctor immediately. Only give artificial respiration if breathing stops or under medical supervision.
After skin contact:	Wash immediately with plenty of soap and water for at least 15 minutes. Remove all contaminated clothing immediately. Get medical attention if irritation develops and persists.
After eye contact:	Remove contact lenses and rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. Get medical attention.
After ingestion:	If conscious, give the victim plenty of water to drink. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

Harmful if swallowed.  
May cause allergic skin reaction.

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

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In case of accident or if you feel unwell, consult a doctor immediately (if possible show him the instructions for use or the safety data sheet).

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Foam, dry powder, carbon dioxide, sand, water mist.  
Neighbouring fires (containers exposed to fire): Water spray or fog.  
Unsuitable extinguishing media: Direct water jet.

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

May release toxic, irritating and/or corrosive gases.  
Exposure to decomposition products may be hazardous to health.  
Do not allow extinguishing waters to enter sewers or watercourses.

#### 5.3 Advice for firefighters

Surrounding fires: Cool containers with water to prevent decomposition of product and development of potential health hazards.  
Always use full fire protection.  
Collect water from entering sewage system.  
Dispose of contaminated water used for extinguishing and residues in accordance with current regulations.  
Protection against fire: Helmet with visor, flame retardant clothing (jacket and trousers with straps around the arms, legs and waist, EN 469), gloves (fireproof and dielectric, EN 659), a mask with face mask covering the whole face of the operator or the car (self protective) in case of large amounts of smoke, a self-contained breathing apparatus (EN 137).  
Hazardous combustion products: Not available.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

##### For non-emergency personnel

Wear a mask, solvent resistant protective gloves, safety goggles and protective clothing. See protective measures in sections 7 and 8.

##### For emergency responders

Wear a mask, solvent resistant protective gloves, safety goggles and protective clothing. See protective measures in sections 7 and 8.

#### 6.2 Environmental precautions

In case of gas leakage or penetration into watercourses, soil or sewage system, inform the responsible authorities, if necessary.

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

Suitable collection material: dry, inert absorbent material (vermiculite, sand, earth). Wash with plenty of water and quickly recover the product.

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### 6.4 Reference to other sections

For exposure control and personal protective measures, see section 8.

For waste disposal, follow the recommendations in section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Precautions for safe handling: No smoking, eating or drinking while working.

Personal protection: Personal protective equipment, see section 8.

Technical protective measures: Not available.

Handling: Not available.

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

Storage: Not available.

Conditions for safe storage, including any incompatibilities: Store in a cool, well-ventilated place.

Storage – away from: Store protected from light. Store away from heat, flames, sparks and other sources of ignition.

### 7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering control

Since the use of appropriate technical measures should always take precedence over personal protective equipment, ensure good ventilation at the workplace by effective local suction. When choosing personal protective equipment, ask your chemical suppliers if this is necessary. Personal protective equipment must be CE-marked for compliance with applicable regulations. Provide an emergency shower with a viscoelastic tray.

Hygiene measures: Handle with proper industrial hygiene precautions, and observe safety practices. Wash hands before breaks and after finishing work.

#### Individual protection measures

Eye/face protection: Protective face shields and safety goggles according to EN166.

Skin protection: Choose body protection according to the quantity and concentration of the hazardous substance in the workplace.

Hand protection: Handle with gloves. The selected protective gloves must comply with the specifications of EU Directive 89/686/EEC and the derived EN 374 standard.

Respiratory protection: Where risk assessment shows that air-purifying respirators are appropriate, use dust mask type N95 (USA) or type P1 (EN 143). Use respirators and components tested and approved under appropriate governmental standards such as NIOSH (US) or CEN (EU).

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Thermal hazards: Not determined.

### Environmental exposure control

Not available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:	Dark brown, viscous liquid which is transparent and yellowish-brown when viewed in a thin layer; it is not sticky, non-drying and does not form threads.
Odour:	Sweet, balsamic, vanilla
Odour threshold:	Not available.
pH:	4.3
Melting/freezing point:	Not available.
Initial boiling point:	> 100 °C
Boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	1.140 - 1.170 g/mL
Solubility:	Freely soluble in anhydrous ethanol, not miscible with fatty oils, except for castor oil.
Solubility in water:	Practically insoluble in water.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.

### 9.2 Other information

Not available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No decomposition if stored and applied as directed.

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### 10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Keep away from open flames, sparks and heat sources. Avoid direct sun exposure. Avoid accumulation of electrostatic charges.

### 10.5 Incompatible materials

Not available.

### 10.6 Hazardous decomposition products

No decomposition if used according to instructions. No decomposition if stored under normal conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity:	Acute oral toxicity (LD <sub>50</sub> , rat): 500 mg/kg (benzyl benzoate) Acute oral toxicity (LD <sub>50</sub> , rat): 1930 mg/kg (eugenol) Acute Oral Toxicity (LC <sub>50</sub> , rat): 2.58 mg/L (eugenol) Acute dermal toxicity (rabbit): 100 mg (eugenol)
Skin corrosion/irritation:	Not available.
Serious eye damage/irritation:	Not available.
Respiratory/skin sensitisation:	Not available.
Germ cell mutagenicity:	Not available.
Carcinogenicity:	Not available.
Reproductive toxicity:	Not available.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	Not available.
Other:	Not available.

### 11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	Not available.
Skin contact:	May cause an allergic skin reaction.
Inhalation:	Not available.
Ingestion:	Harmful if swallowed.
Aspiration:	Not available.

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### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Fish toxicity (LC<sub>50</sub>): 2.7 - 3.9 mg/L, 96 h

Invertebrate toxicity (EC<sub>50</sub>): 3.09 mg/L (*Daphnia magna*)

#### 12.2 Persistence and degradability

Not available.

#### 12.3 Bioaccumulative potential

Not available.

#### 12.4 Mobility in soil

Not available.

#### 12.5 Results of PBT and vPvB assessment

Not available.

#### 12.6 Other adverse effects

Not available.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Product: Consider all federal, state and local environmental regulations. Contact a licensed professional waste disposal service for disposal of this material. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated container: Dispose of as unused product.

### SECTION 14: TRANSPORT INFORMATION

#### Transport information according to ADR/RID/IMDG/ICAO/IATA

##### 14.1 UN Number

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : 3082

##### 14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRANS-  
NEROLIDOL, BENZYL BENZOATE, TRANS-NEROLIDOL, BENZYL BENZOATE)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRANS-  
NEROLIDOL, BENZYL BENZOATE, BENZYL BENZOATE, TRANS-NEROLIDOL, BENZYL  
BENZOATE)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRANS-  
NEROLIDOL, BENZYL BENZOATE, TRANS-NEROLIDOL, BENZYL BENZOATE)

##### 14.3 Transport hazard class(es)



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ADR/ RID(Land),IMDG(Sea), 9  
IATA/ICAO (Air) :

### 14.4 Packing group

ADR/ RID(Land),IMDG(Sea), III  
IATA/ICAO (Air) :

### 14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea), ADR/RID: Environmentally Hazardous  
IATA/ICAO (Air) : IMDG: Marine Pollutant  
IATA: Marine Pollutant

### 14.6 Special precautions for user

Not available.

### 14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

### 14.8 Additional transport information

Not available.

## SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Harmful to the environment  
Irritant

Risk phrases:

R22 Harmful if swallowed.  
R43 May cause sensitisation by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S27 Take off immediately all contaminated clothing.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

### 15.2 Chemical safety assessment

A chemical safety assessment of the product has not been carried out.

## SECTION 16: OTHER INFORMATION

### 16.1 Changes since the previous version

Not applicable.

### 16.2 Abbreviations and acronyms used

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

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CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

### 16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

### 16.4 Method of classification in case of mixture

Classification based on the main component.

### 16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

### 16.6 Training advisement

Not available.

### 16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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### 16.8 Department issuing MSDS

Quality Department

FAC SECUNDUM ARTEM NV

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