

## SECTION 1 - Identification of the substance / mixture and of the company / undertaking

### 1.1 Product identifier

Product name: Natural CBD Pure API  
Synonyms: Cannabidiol ; CBD ; (-)-trans-2-p-Mentha-1,8-dien-3-yl-5-pentylresorcinol ; 2-[(1R,6R)-3-methyl-6-prop-1-en-2-yl-1-cyclohex-2-enyl]-5-pentyl-benzene-1,3-diol ; 2-p-mentha-1,8-dien-3-yl-5-pentyl-(-)-(E)-Resorcinol ; 2-(3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl)-5-pentyl-(1R-trans)-1,3-Benzenediol

Article number: CBD-303

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Raw material for extemporaneous preparations, clinical research, cosmetic and veterinary industry, component for food supplements and nutritional products.

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

Lipomed AG  
Fabrikmattenweg 4  
CH-4144 Arlesheim

Tel: +41 (0) 61 702 02 00  
Fax: +41 (0) 61 702 02 20  
eMail: lipomed@lipomed.com

### 1.4 Emergency phone number

Tel (24h): +41 (0) 44 321 34 33

## SECTION 2 - Hazard identification

### 2.1 Classification of the substance or mixture

**Classification according to European Regulation (EC) 1272/2008 (EU-GHS/CLP)**

Acute toxicity oral (Cat. 4) H302: Harmful if swallowed.  
Reproductive toxicity (Repr. 2) H361: Suspected of damaging fertility or the unborn child.

### 2.2 Label elements

**Labelling according to European Regulation (EC) 1272/2008 (CLP)**

Hazard Pictograms:



GHS07



GHS08

Signal word: Warning.

Hazard Statements:

H302 Harmful if swallowed.  
H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements:

Prevention

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P263 Avoid contact during pregnancy/while nursing.

P264 Wash skin thoroughly after handling.  
 Response  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P308+P313 IF exposed or concerned: Get medical advice/ attention.  
 P405 Store locked up.

**2.3 Others hazards**

None.

**SECTION 3 - Composition/information on ingredients**

**3.1 Substances**

Product Name	Natural CBD Pure API
<b>Formula</b>	C <sub>21</sub> H <sub>30</sub> O <sub>2</sub>
<b>Molecular Weight</b>	314.47 g/mol
<b>CAS Number</b>	13956-29-1
<b>EC Number</b>	689-176-3
<b>Percent</b>	100

**3.2 Mixtures**

Not applicable

**SECTION 4 – First-aid measures**

**4.1 Description of first aid measures**

FOLLOWING ANY ROUTE OF EXPOSURE GET MEDICAL ATTENTION IMMEDIATELY. SERIOUS TOXICITY IS PRECEDED BY VOMITING IN MOST CASES OF ORAL INGESTION.

**Inhalation:**

Normally no particular measures required when handling in small quantities.

**Ingestion:**

Normally no particular measures required when handling in small quantities.

**Skin and Mucous Membrane Contact:**

Normally no particular measures required when handling in small quantities.

**Eye Contact:**

Normally no particular measures required when handling in small quantities.

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

May cause anaemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

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

No data available.

**SECTION 5 – Firefighting measures**

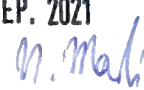
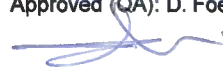
**5.1 Extinguishing Media**

Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

Suitable: Carbon dioxide; dry chemical powder; appropriate foam.

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

Emits toxic fumes under fire conditions.

### 5.3 Advice for firefighters

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

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## SECTION 6 - Accidental release measures

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

Evacuate area. Shut off all sources of ignition.

### 6.2 Environmental precautions

Do not allow material to enter drains and water sources.

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

To clean up, wash spill site with appropriate cleaning agent to removal residual traces of spilled material.

### 6.4 Reference to other sections

See section 13 for disposal.

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## SECTION 7 - Handling and storage

### 7.1 Precautions for safe handling

Do not breathe dust. Avoid contact with eyes, skin and clothing. Avoid prolonged and repeated exposure.

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

Keep tightly closed. Store in a dry place. Refer to the manufacturer's certificate for storage conditions.

### 7.3 Specific end use(s)

No specific information.

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## SECTION 8 - Exposure controls/personal protection

### 8.1 Control parameters

Components with workplace control parameters.

### 8.2 Exposure controls

#### Skin Protection:

Handle with gloves. Gloves must be inspected prior to use.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Gloves should then be removed carefully to prevent skin exposure, placed in a sealable plastic polyethylene bag and disposed of in accordance with local requirements. Hands should then be washed thoroughly with soap and water.

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Dispose contaminated material according to good laboratory practices.

#### Eye/face Protection:

Not normally required when handling in small quantities but considered good practice. Use

safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Personal Respirators (NIOSH Approved):**

Not normally required when handling in small quantities. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Work and hygienic practices:**

Wash hands following use. No eating, drinking or smoking while handling this product.

## SECTION 9 - Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Property	Natural CBD Pure API
<b>Physical state:</b>	
<b>Colour</b>	White to off-white or slightly brownish
<b>Form</b>	Powder
<b>Odour</b>	No data available
<b>Melting point/freezing point</b>	63-69 °C
<b>Boiling point or initial boiling point and boiling range</b>	No data available
<b>Flammability</b>	No data available
<b>Lower and upper explosion limit</b>	Lower explosion limit: No data available Upper explosion limit: No data available
<b>Flash point</b>	No data available
<b>Auto ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>pH</b>	No data available
<b>Kinematic viscosity</b>	No data available
<b>Solubility</b>	Soluble in methanol and ethanol Insoluble in water
<b>Partition coefficient n-octanol/water</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Density and/or relative density</b>	No data available
<b>Relative vapor density</b>	No data available

### 9.2 Other information

No data available.

## SECTION 10 - Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Avoid contact to Calomel, mercuric oxide, soluble silver salts, iodides and stannic acid.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

Strong acids, strong oxidizing agents, alkali metals, strong reducing agents.

### 10.6 Hazardous decomposition products:

Possible formation of carbon oxides and nitrogen oxides during heat and in case of fire.

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## SECTION 11 - Toxicological information

### 11.1 Information on toxicological effects

The potential toxic effects of CBD have been extensively reviewed. In general, CBD has been found to have relatively low toxicity, although not all potential effects have been explored. The following are some of the relevant findings to date from in vitro and animal studies:

- CBD affects growth of tumoral cell lines but has no effect in most nontumour cells. However, a pro-apoptotic effect has been observed in lymphocytes.
- It has no effect on embryonic development (limited research)
- Evidence on potential hormonal changes is mixed, with some evidence of possible effects and other studies suggesting no effect, depending on the method used and the particular hormone
- It has no effect on a wide range of physiological and biochemical parameters or significant effects on animal behaviour unless extremely high doses are administered (eg, in excess of 150 mg/kg iv as an acute dose or in excess of 30 mg/kg orally daily for 90 days in monkeys)
- Effects on the immune system are unclear; there is evidence of immune suppression at higher concentrations, but immune stimulation may occur at lower concentrations.
- There is potential for CBD to be associated with drug interactions through inhibition of some cytochrome P450 enzymes, but it is not yet clear whether these effects occur at physiological concentrations.

#### Acute toxicity

Intravenous; mouse: LD50: 50 mg/kg

Intravenous; dog: LD50: > 254 mg/kg

Intravenous; monkey: LD50: 212 mg/kg

#### Skin corrosion/irritation

No data available.

#### Serious eye damage/irritation

No data available.

#### Respiration or skin sensitization

No data available.

#### Skin absorption

May be harmful if absorbed through the skin.

#### Ingestion

May be harmful if swallowed.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity (STOT) – single exposure**

No data available.

**Specific target organ toxicity (STOT) – repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Additional information**

RTECS: VH1600000

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**SECTION 12 - Ecological information**

**12.1 Toxicity**

No data available

**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**

Not applicable.

**12.6 Other adverse effects**

No data available.

**SECTION 13 - Disposal considerations**

**13.1 Waste treatment methods**

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

**SECTION 14 – Transport information**

**14.1 UN number**

RID/ADR: -

IMDG: -

IATA: -

**14.2 UN proper shipping name**

RID/ADR: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

RID/ADR: -	IMDG: -	IATA: -
Sub. Risk: -	Sub. Risk: -	Sub. Risk: -

**14.4 Packaging group**

RID/ADR: III	IMDG: III	IATA: III
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**14.5 Environmental hazards**

RID/ADR: No	IMDG: No marine pollutant	IATA: No
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**14.6 Special precautions for user**

RID/ADR: -	IMDG: -	IATA: -
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**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**Additional Information:** IATA Dangerous Goods Regulations (2.6.10): When sold in quantity of less than 1 Gr, this item meets the De Minimis Quantities exemption (E1, E2, E4 or E5). Therefore, packaging does not have to be labelled as Dangerous Goods/Excepted Quantity.

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**SECTION 15 - Regulatory information**

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

This SDS complies with Regulation: No.: 1907/2006.

**15.2 Chemical safety assessment**

Chemical Safety Assessment has not been carried out.

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**SECTION 16 - Other information**

**This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. Lipomed AG shall not be held liable for any damage resulting from handling or contact with the above products. It is offered solely for your consideration, investigation and verification.**