

Safety data sheet according to Regulation 1907/2006

Product name: CBD crystalline powder

Creation date: 13.01.2020 Revision: 15.01.2020 Version: 1.1

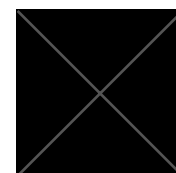


SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

1.1.1 Product name

CBD crystalline powder



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

1.2.1 Relevant identified uses

Raw material for cosmetic, pharmaceutical and food products. For professional use only.

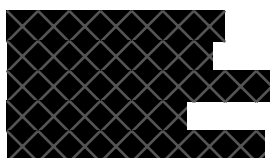
1.2.2 Uses advised against

No information.



1.3 Details of the supplier of the safety data sheet

1.3.1 Supplier



1.4 Emergency Telephone Number

1.4.1 Emergency

112

1.4.2 Supplier



SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302 Harmful if swallowed.
Repr. 2; H361 Suspected of damaging fertility or the unborn child.

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: Warning

H302 Harmful if swallowed.

H361 Suspected of damaging fertility or the unborn child.

P102 Keep out of reach of children.

P202 Do not handle until all safety precautions have been read and understood.

P235 + P410 Keep cool. Protect from sunlight.

P273 Avoid release to the environment.

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

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

2.2.2 Contains:

Cannabidiol

2.3 Other hazards

Caution - the substance has not yet been fully tested. Additional hazardous properties can not be excluded. In the supplied form the product is not explosive at all ; however the build-up of fine dust can lead to a risk of dust explosions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

NAME	CAS EC INDEX REACH	%	CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 (CLP)	NOTES FOR SUBSTANCES
Cannabidiol	13956-29-1 - -	≥97,5	H302, H361	/

3.2 Mixtures

SECTION 4: FIRST AID MEASURES

4.1 First aid measures

4.1.1 General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.1.2 Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

4.1.3 Following skin contact

Wash affected skin areas thoroughly with plenty of water and soap. If irritation of skin persists seek medical attention.

4.1.4 Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Remove contact lenses, if present and easy to do. Seek medical help.

4.1.5 Following ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water and drink 2-3 dl water in sips. Do not induce vomiting without prior consultation with a doctor. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

4.2.1 Following inhalation

Breathing dust can irritate the respiratory tract. Smoke: May be harmful if inhaled. Intoxication, vertigo, headache, nausea.

4.2.2 Following skin contact

Contact with skin may cause irritation (redness, itching). Dust mechanically irritates the skin.

4.2.3 Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

4.2.4 Following ingestion

Harmful if swallowed. May cause abdominal discomfort. May cause nausea/vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

5.1.2 Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

5.2.1 Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO₂). Under certain fire conditions, traces of other toxic gases cannot be excluded. Combustible.

5.3 Advice for firefighters

5.3.1 Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Cool containers at risk with water spray. If possible remove containers from endangered area. Prevent accumulation of vapours with water spray.

5.3.2 Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

5.3.3 Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation. Avoid breathing dust. Avoid contact with spilled material. Use personal protective equipment.

Emergency procedures

Evacuate the danger zone. Prevent access to unprotected personnel. No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin, eyes and clothing. Do not use open fire and keep away all sources of ignition.

6.1.5 For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment

Dam spill area.

6.3.2 For cleaning up

Sweep up and place in suitable clean, dry container. Prevent dusting. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking.

Measures to prevent aerosol and dust generation

Prevent dusting.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

7.1.6 Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Use personal protective equipment. Do not breathe dust. Always close containers tightly after the removal of product. Do not eat, drink or smoke while working. Use good personal hygiene practices – wash hands at breaks and when done working with material. Consider measures required in Section 8 of this safety data sheet.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep in tightly closed container. Keep away from food, drink and animal feeding stuffs. Protect from light. Store below +25°C. Store in accordance with local regulations.

7.2.2 Packaging materials

Store only in original container.

7.2.3 Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Keep only in original container. Do not store in unlabelled containers.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure limit values

No information.

8.1.2 Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents.

8.1.3 DNEL/DMEL values

For product

No information.

For components

No information.

8.1.6 PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

8.2.1 Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use only in adequate ventilated premises. Avoid contact with skin, eyes and clothes. Do not breathe dust. Do not eat, drink or smoke while working. Use good personal hygiene practices – wash hands at breaks and when done working with material. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

Organisational measures to prevent exposure

Keep eyewash bottles or personal eyewash units and emergency showers available.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

8.2.6 Personal protective equipment

Eye and face protection

Safety glasses with side protection (EN 166).

Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately.

Appropriate materials

MATERIAL	THICKNESS	PENETRATION TIME	REMARK
Butyl rubber	0.7 mm	> 480 min	EN 374
nitrile rubber	0.11 mm	> 480 min	EN 374

Skin protection

Wear suitable protective clothing. Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

8.2.13 Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

solid - crystalline powder

9.1.2 Colour

white

9.1.3 Odour

No information.

9.1.4 Important health, safety and environmental information

Odour threshold	No information.
pH	No information.
Melting point/Freezing point	No information.
Initial boiling point/boiling range	No information.
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Explosion limits (vol%)	No information.
Vapour pressure	No information.
Vapour density	No information.
Density / weight	No information.
Solubility	Organic solvent: Soluble
Partition coefficient	No information.
Auto-ignition temperature	No information.

Decomposition temperature	No information.
Viscosity	No information.
Oxidising properties	No information.

9.1.5 Explosive properties

No information.

9.2 OTHER INFORMATION

No information.

9.2.1 Other information

This material is combustible.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

10.4 Conditions to avoid

Keep away from moisture. Avoid light. Heating. Follow directions for use and storage.

10.5 Incompatible materials

Strong oxidising agents. Strong reducing agents.
Strong bases.
Strong acids.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide. Toxic gases and vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) Acute toxicity

For product

No information.

For components

No information.

Additional information

Harmful if swallowed. May be harmful by inhalation. Caution - the substance CBD has not yet been fully tested. Additional hazardous properties can not be excluded.

(b) Skin corrosion/irritation**For product**

No information.

For components

No information.

Additional information

The product is not classified as irritating to the skin.

(c) Serious eye damage/irritation**For product**

No information.

For components

No information.

Additional information

The product is not classified as an irritant to the eyes.

(d) Respiratory or skin sensitisation**For product**

No information.

For components

No information.

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity**For product**

No information.

For components

No information.

(f) Carcinogenicity**For product**

No information.

For components

No information.

(g) Reproductive toxicity**For product**

TYPE	SPECIES	TIME	VALUE	RESULT	METHOD	REMARK
TDLo	mouse	/	750 mg/kg	/	/	oral (previous mating)

For components

No information.

Summary of evaluation of the CMR properties

May cause harm to the unborn child. Possible risk of impaired fertility.

(h) STOT-single exposure**For product**

No information.

For components

No information.

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure**For product**

No information.

For components**Additional information**

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard**For product**

No information.

For components

No information.

Additional information

Aspiration hazard: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

12.1.1 Acute (short-term) toxicity

For product

No information.

For components

No information.

12.1.4 Chronic (long-term) toxicity

For product

No information.

For components

No information.

12.1.7 Additional information

No information.

12.2 Persistence and degradability

12.2.1 Abiotic degradation, physical- and photo-chemical elimination

For product

No information.

For components

No information.

12.2.4 Biodegradation

For product

No information.

For components

No information.

12.2.7 Additional information

No information.

12.3 Bioaccumulative potential

12.3.1 Partition coefficient

For product

No information.

For components

No information.

12.3.4 Bioconcentration factor (BCF)

For product

No information.

For components

No information.

12.3.7 Additional information

No information.

12.4 Mobility in soil

12.4.1 Known or predicted distribution to environmental compartments

For product

No information.

For components

No information.

12.4.4 Surface tension

For product

No information.

For components

No information.

12.4.7 Adsorption/Desorption

For product

No information.

For components

No information.

12.4.10 Additional information

No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Other adverse effects

No information.

12.7 Additional information

For product

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Water hazard class 1 (self-assessment): slightly hazardous for water.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal

Waste chemical

Do not dispose together with household garbage. Waste is classified as hazardous waste. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not allow product to reach drains/sewage systems. Dispose of in accordance with applicable waste disposal regulation.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Dispose of in accordance with applicable waste disposal regulation. Leave the label on the packaging. Clean packaging with water and possibly with soap.

13.1.6 Waste treatment-relevant information

No information.

13.1.7 Sewage disposal-relevant information

No information.

13.1.8 Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.2 UN proper shipping name			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.3 Transport hazard class(es)			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
Other specifics			
Tunnel restriction code: - Transport category: - Danger no.: -	IMDG flashpoint: IMDG EmS: -	Cargo Packing Instruction Packing Instructions: - Cargo Packing Instruction Net Qty: - Passenger Packing Instruction Packing Instructions: - Passenger Packing Instruction Net Qty: - Limited Quantity Packing Instructions: - Limited Quantity Net Qty: -	

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

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

SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)

GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

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