

SAFETY DATA SHEET

According to the Regulation (EC) No 1907/2006 as amended by Regulation (EU) No 453/2010

Date of issue: 28.10. 2014	Replace issue from: -
Date of revision: -	
Product name: <b style="text-align: center;">CBD LIQUID	Page: 1/5

1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: Name: <b style="margin-left: 20px;">CBD LIQUID Registration number: Not applied to mixtures
1.2	Relevant identified uses of the mixture: eLiquid cartridge Uses advised against: unknown
1.3	Details of the supplier of the safety data sheet: CANNABIS Pharma-derm, s.r.o. The full address: Masarykova třída 1595/54, CZ 415 01 Teplice, Czech Republic Telephone: +420 777 242 218 E-mail address for a competent person responsible for the safety data sheet: janovsky@cannabispharma.cz
1.4	Emergency telephone number: +420 224 919 293, +420 224 915 402 (continuously) (information only for health risks – acute intoxication of humans and animals) Czech Republic Toxicological information centre, Na Bojišti 1, Prague

2.	HAZARDS IDENTIFICATIONS
2.1	Classification of the mixture: The mixture does not meet the classification criteria of Directive 1999/45/EC or Regulation (EU) 1272/2008 and subsequent amendments and supplements. The most important adverse effects: - physical and chemical: The mixture is not classified as hazardous. - on human health: The mixture is not classified as hazardous. - on environment: The mixture is not classified as hazardous.
2.2	Label elements according to Regulation 2008/1272 as amended: The product does not need to be labelled. Hazard pictogram(s): none Signal word(s): none Hazard statement(s): none Precautionary statement(s): none Other usable label elements: none
2.3	Other hazards: Information not available.

3.	COMPOSITION/INFORMATION ON INGREDIENTS
	The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions set forth in Directives 67/548/EEC and/or EC Regulation 1272/2008 and subsequent amendments and supplements. The product does not contain any substance with established occupational exposure limit. The product does not contain any PBT/vPvB substance (Annex XIII of Regulation 1907/2008). The product does not contain substance from the candidate list to Annex XIV of Regulation 1907/2008.

4.	FIRST AID MEASURES
4.1	Description of first aid measures: If inhaled: Remove to fresh air. In case of skin contact: Take off contaminated clothes. Wash skin with water and soap. In case of eye contact: Flush with plenty of pure water. In the case of persistent inflammation, take the advice of ophthalmologist. If swallowed: Rinse mouth with water. Do not induce vomiting. Consult a doctor.
4.2	Most important symptoms and effects, both acute and delayed: No episodes of damage to health ascribable to the product have been reported.
4.3	Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required only in case of ingestion of a big amount of the mixture.

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5.	FIREFIGHTING MEASURES
5.1	Extinguishing media: carbon dioxide, foam, powder and water spray. Unsuitable extinguishing media: None in particular.
5.2	Special hazards arising from the substance or mixture: Do not breathe combustion products.
5.3	Advice for firefighters: Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system.

6.	ACCIDENTAL RELEASE MEASURES
6.1	Personal precautions, protective equipment and emergency procedures: Do not take action without suitable protective clothing - see section 8 of SDS. Ensure adequate ventilation. Avoid breathing vapours, mist, dust or gas.
6.2	Environmental precautions: Prevent from spreading or entering into ground, drains, ditches or rivers. In the risk for water sources follow the regional legislation.
6.3	Methods and material for containment and cleaning up: Cover spillage with suitable absorbent material. Sweep up material and place in an appropriate container. Hold all material for appropriate disposal as described under section 13.
6.4	Reference to other sections: For disposal see section 13.

7.	HANDLING AND STORAGE
7.1	Precautions for safe handling: Avoid contact with eyes, skin and clothing. Use in a well-ventilated area. Keep away from sources of ignition. Use only as directed.
7.2	Conditions for safe storage, including any incompatibilities: Keep out of reach of children. Keep away from direct sunlight, at temperatures 5 - 30 ⁰ C in dry rooms. Keep container tightly sealed until ready for use.
7.3	Specific end use(s): not relevant

8.	EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1	Exposure limit values according to directives 2000/39/EC, 2006/15/EC and 2009/161/EU: no substances with occupational exposure limit values Biological limit values: not prescribed for the mixture
8.2	Exposure controls:
8.2.1	Appropriate engineering controls: Ensure all measures described under section 7 of SDS are in place.
8.2.2	Personal protective equipment Eye/face protection: Use appropriate safety glasses. Skin protection: Use appropriate chemical resistant gloves. Wash and dry hands thoroughly after handling.
8.2.3	Body protection: Wear appropriate protective clothing. Respiratory protection: If risk assessment indicates necessary, use a suitable respirator. Thermal hazards: None when used as directed. Environmental exposure controls: Prevent release to the environment.

9.	PHYSICAL AND CHEMICAL PROPERTIES
9.1	Information on basic physical and chemical properties
	Appearance: liquid colour: colourless, clear
	Odour: odourless
	Odour threshold: Not relevant for this mixture
	pH: 6.8
	Melting point/freezing point: cca 23 ⁰ C
	Initial boiling point and boiling range: 214 - 225 ⁰ C
	Flash point: >100 ⁰ C
	Evaporation rate: Not available
	Flammability: Not relevant for this mixture
	Explosive limits: Not available
	Vapour pressure at 20 ⁰ C: 0.1067

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	Vapour density (air=1):	Not available
	Density at 20 ⁰ C:	1065 kg/m ³
	Solubility(ies):	In water: soluble, in fats (oil): partially soluble
	Partition coefficient: n-octanol/water:	Not available
	Auto-ignition temperature:	Not available
	Decomposition temperature:	Not available
	Viscosity:	47.68 mPa.s
	Explosive properties:	Not relevant for this mixture
	Oxidising properties:	Not relevant for this mixture
9.2	Other information	Not available

10.	STABILITY AND REACTIVITY
10.1	Reactivity: There are no particular risks of reaction with other substances under normal conditions of use.
10.2	Chemical stability: The product is stable under normal conditions of use and storage.
10.3	Possibility of hazardous reactions: see 10.1
10.4	Conditions to avoid: None in particular. However the usual precautions used for chemical products should be respected.
10.5	Incompatible materials: strong oxidizing materials and acids
10.6	Hazardous decomposition products: during thermal decomposition can be produced carbon oxides and nitrogen oxides

11.	TOXICOLOGICAL INFORMATION
11.1	Information on toxicological effects: not determined for the mixture
	Toxicological effects of main substances: 2-[(1R,6R)-3-methyl-6-prop-1-en-2-ylcyclohex-2-en-1-yl]-5-pentylbenzene-1,3-diol (Information from MSDS Cannabidiol)
	a) acute toxicity:
	- LD ₅₀ oral, mouse (mg/kg): 750
	- LD ₅₀ dermal, rat (mg/kg): No data available.
	- LC ₅₀ inhalation, rat (mg/L): No data available.
	b) skin irritation/corrosion : Classification criteria are not met based on available data.
	c) serious eye damage/irritation: Classification criteria are not met based on available data.
	d) respiratory/skin sensitisation: Classification criteria are not met based on available data.
	e) repeated dose toxicity: Classification criteria are not met based on available data.
	f) carcinogenicity: Classification criteria are not met based on available data.
	g) mutagenicity: Classification criteria are not met based on available data.
	h) toxicity for reproduction: Classification criteria are not met based on available data.
11.1.7	Information on likely routes of exposure: skin, eyes, ingestion
11.1.8	Symptoms related to the physical, chemical and toxicological characteristics:
	- skin (long term exposition): There may be mild irritation at the site of contact.
	- eyes: There may be irritation and redness.
	- ingestion (big amount): nausea, vomiting, irritation of the throat.
11.1.9	Delayed and immediate effects as well as chronic effects from short and long-term exposure: Not observed
11.1.10	Interactive effects: Not observed
11.1.11	Absence of specific data: Not available
11.1.12	Mixture versus substance information: For the mixture are not expected the worse effects on health than for individual substances.
11.1.13	Other information: None

12.	ECOLOGICAL INFORMATION
12.1	Toxicity: acute toxicity for aquatic organisms: no data available for the mixture For the main substances (Information from the MSDS): LC ₅₀ 96h,fish (mg/L): > 9720 (Propane-1,3-diol) EC ₅₀ 48h,daphnia (mg/L): > 7417 (Propane-1,3-diol) EC ₅₀ 72h,algae (mg/L): no data available
12.2	Persistence and degradability:

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	Persistence: no data available
	The potential of substances in a mixture to degrade in sewage treatment plants: Not determined.
	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: based on actual information, ingredients of the mixture are not PBT/vPvB
12.6	Other adverse effects: Not observed

13.	DISPOSAL CONSIDERATIONS
13.1	<p>Waste treatment methods:</p> <p>Suitable methods for disposal of the mixture: (code 200113 - Solvents) incineration in an incinerator or disposing in a collection point for hazardous wastes.</p> <p>Suitable methods for disposal of the packaging: (code 200102 - Glass, code 200101 - Paper and Cardboard) empty packaging dispose in a collection point for sorted wastes or municipal waste.</p> <p>Physical/chemical properties that may affect waste treatment options: not known</p> <p>Sewage disposal: not allowed</p> <p>Special precautions for recommended waste treatment options (only for disposal of a big amount of the mixture): no special precautions</p> <p>Directive nr. 98/2008/EC with all amendments</p>

14.	TRANSPORT INFORMATION						
14.1	Special precautions: none						
14.2	Transport classification: Product does not meet the criteria for classification as hazardous for transport.						
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">ADR/RID:</td> <td style="width: 33%;">ICAO/IATA:</td> <td style="width: 33%;">IMDG:</td> </tr> <tr> <td colspan="3">Does not meet the criteria for classification as hazardous for transport.</td> </tr> </table>	ADR/RID:	ICAO/IATA:	IMDG:	Does not meet the criteria for classification as hazardous for transport.		
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15.	REGULATORY INFORMATION
15.1	<p>Safety, health and environmental regulations/legislation specific for the substance or mixture:</p> <p>Commission Regulation nr. 1272/2008 with all amendments.</p> <p>Commission Regulation nr. 1907/2006 (REACH) with all amendments.</p> <p>Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006: None.</p> <p>Substances in Candidate List (Art. 59 REACH): None.</p> <p>Substances subject to authorisation (Annex XIV REACH): None.</p>
15.2	Chemical safety assessment: A Chemical Safety Assessment has not been made for this product.

16.	OTHER INFORMATION
16.1	<p>LEGEND:</p> <ul style="list-style-type: none"> - ADR: European Agreement concerning the carriage of Dangerous goods by Road - CAS NUMBER: Chemical Abstract Service Number - CE50: Effective concentration (required to induce a 50% effect) - CE NUMBER: Identifier in ESIS (European archive of existing substances) - CLP: EC Regulation 1272/2008 - DNEL: Derived No Effect Level - EmS: Emergency Schedule - GHS: Globally Harmonized System of classification and labeling of chemicals - IATA DGR: International Air Transport Association Dangerous Goods Regulation - IC50: Immobilization Concentration 50% - IMDG: International Maritime Code for dangerous goods - IMO: International Maritime Organization - INDEX NUMBER: Identifier in Annex VI of CLP - LC50: Lethal Concentration 50% - LD50: Lethal dose 50% - OEL: Occupational Exposure Level

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- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation

- 16.2 Classification of the mixture was carried out using the calculation method according to Regulation 1272/2008 as amended. Sources for compilation of this data sheet: MSDS of ingredients of the mixture, ECHA databases
- 16.3 The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
- 16.4 Provide appointed staff with adequate training on how to use chemical products.
Instructions for training:
Staff shall be instructed about the handling hazards and requirements for the health and environment precaution (see the appropriate provisions of the Labour Code).
Each employer shall in accordance with Article 35 of the Regulation 1907/2006 provide an access to the information from the safety data sheet to all personnel who use this product or are exposed to its effects at work, as well as to their representatives.
- 16.5 Changes to the previous version of the SDS: none