



SUBJECT Safety Data Sheet (SDS)

SERVICE LOCATION TÜV SÜD China

TÜV SÜD Products Testing (Shanghai) Co., Ltd.
B-3/4, No.1999 Du Hui Road, Minhang District
Shanghai 201108, P.R. China

CLIENT NAME CANNAPRESSO HEALTH INC

CLIENT ADDRESS 202 North California Ave, City of Industry, CA91744 U.S

The sample information was submitted and identified on applicant's behalf to be:

SAMPLE NAME CANNAPRESSO CBD E-LIQUID ($\leq 1000\text{mg}/10\text{ml}$)

PREPARED PERIOD 04-May-2018~17-May-2018

SERVICE REQUESTED Based on the information provided by the applicant, the Safety Data Sheet (SDS) was prepared according to EU regulation No. 2015/830

Prepared By

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Report Drafter

Authorized By

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Authorized Signatory

Note: (1) General Terms & Conditions as mentioned overleaf. (2) The results relate only to the items tested.(3) The test report shall not be reproduced except in full without the written approval of the laboratory.(4) Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

Safety Data Sheet

CANNAPRESSO CBD E-LIQUID (≤1000mg/10ml)

*Prepared according to EU regulation No. 2015/830

1 Identification of the substance/mixture and of the company/undertaking

Product identifier

Product Name	CANNAPRESSO CBD E-LIQUID (≤1000mg/10ml)
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	Not applicable

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

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	CANNAPRESSO HEALTH INC
Address of the company	202 North California Ave, City of Industry, CA91744 U.S
Post code	/
Telephone number	0755-29495300
Fax number	/
E-mail address	qc2@feellife.com

Emergency phone number

Emergency phone number	13723427014
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2 Hazards identification

CLP classification according to Regulation (EC) No. 1272/2008

Reproductive Toxicity	Category 2
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Label elements

Hazard pictograms	
Signal word	Warning

Hazard statements

H361	Suspected of damaging fertility or the unborn child
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Precautionary statements

CANNAPRESSO CBD E-LIQUID (≤1000mg/10ml)

◆ Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

◆ Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
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◆ Storage

P405	Store locked up.
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◆ Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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| Other hazards

	Not applicable
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3 Component

Component	Cas No.	EC No.	Index No.	Hazard classification according to CLP	Concentration (weight percent, %)
Glycerol	56-81-5	200-289-5	-	Not Classified	≤ 70
Propane-1,2-diol	57-55-6	200-338-0	-	Not Classified	15.33
Cannabidiol	13956-29-1	200-659-6	-	Acute Toxicity – Oral , Category 4 , H302; Reproductive Toxicity Category 2 , H361	< 9.34
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	225-582-5	-	Acute Toxicity – Oral , Category 4 , H302	< 1.5
Vanillin	121-33-5	204-465-2	-	Serious Eye Damage/Irritation , Category 2A , H319	< 1
Benzaldehyde propylene glycol acetal	2568-25-4	219-906-4	-	Not Classified	< 0.75
Ethanol	64-17-5	200-578-6	603-002-00-5	Flammable Liquids , Category 2 , H225	< 0.6
Lemon oil	8008-56-8	289-753-6	-	Flammable Liquids , Category 3 , H226 ; Aspiration Hazard , Category 1 , H304 ; Skin Corrosion/Irritation , Category 2 , H315 ; Sensitization – Skin , Category 1 , H317 ; Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard , Category 1 , H400 ; Hazardous To The Aquatic Environment –	< 0.3

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				Long-Term (Chronic) Hazard , Category 1 , H410	
Benzyl propionate	122-63-4	204-559-3	-	Not Classified	< 0.2
Maltol	118-71-8	204-271-8	-	Acute Toxicity – Oral , Category 4 , H302	< 0.12
Ethyl butyrate	105-54-4	203-306-4	-	Flammable Liquids , Category 3 , H226	< 0.12
Ethyl 2-methylbutyrate	7452-79-1	231-225-4	-	Flammable Liquids , Category 3 , H226	< 0.1
Isopentyl acetate	123-92-2	204-662-3	607-130-00-2	Flammable Liquids , Category 3 , H226	< 0.1
Ethyl isovalerate	108-64-5	203-602-3	-	Flammable Liquids , Category 3 , H226 ; Skin Corrosion/Irritation , Category 2 , H315	< 0.1
Ethyl vanillin	121-32-4	204-464-7	-	Serious Eye Damage/Irritation , Category 2A , H319	< 0.1
Allyl heptanoate	142-19-8	205-527-1	-	Acute Toxicity – Oral , Category 3 , H301 ; Acute Toxicity – Dermal , Category 3 , H311 ; Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard , Category 1 , H400 ; Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard , Category 1 , H410; Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard , Category 3 , H412	< 0.09
Allyl hexanoate	123-68-2	204-642-4	-	Acute Toxicity – Oral , Category 3 , H301 ; Acute Toxicity – Dermal , Category 3 , H311 ; Acute Toxicity – Inhalation , Category 3 , H331 ; Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard , Category 1 , H400 ; Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard , Category 3 , H412	< 0.09
Leaf acetate	3681-71-8	222-960-1	-	Flammable Liquids , Category 3 , H226	< 0.06
Ethyl acetate	141-78-6	205-500-4	607-022-00-5	Flammable Liquids , Category 2 , H225 ; Serious Eye Damage/Irritation , Category 2A , H319 ; Specific Target Organ Toxicity (Single Exposure) , Category 3 , H336	< 0.05
Linalool	78-70-6	201-134-4	-	Sensitization – Skin ,	< 0.05

4 First aid measures**Description of first aid measures**

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Rinse skin with plenty of water or shower.
Ingestion	Rinse mouth.
Inhalation	Fresh air, rest.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Firefighting measures**Extinguishing media**

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

1	Containers may explode when heated.
2	May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures**

1	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
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| 2 | Discharge into the environment must be avoided. |
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Methods and materials for containment and cleaning up

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| 1 | Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. |
| 2 | Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. |
| 3 | Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. |

7 Handling and storage

Precautions for handling

◆ Protective measures

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| 1 | Handling is performed in a well ventilated place. |
| 2 | Wear suitable protective equipment. |
| 3 | Avoid contact with skin and eyes. |

◆ Measures to prevent fire

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| 1 | Keep away from heat/sparks/open flames/ hot surfaces. |
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◆ Measures to prevent aerosol and dust generation

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| 1 | Not applicable. |
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◆ Advice on general occupational hygiene

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| 1 | Wash hands and face after using of the substances. |
| 2 | Replace the contaminated clothing immediately. |

Conditions for safe storage, including any incompatibilities

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| 1 | Keep containers tightly closed. |
| 2 | Keep containers in a dry, cool and well-ventilated place. |
| 3 | Keep away from heat/sparks/open flames/hot surfaces. |
| 4 | Store away from incompatible materials and foodstuff containers. |

Specific end uses

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| 1 | In addition to use mentioned in the first parts, unforeseen other specific end uses. |
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8 Exposure controls/personal protection

Control parameters

◆ Occupational Exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
Glycerol 56-81-5	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	50	-	100

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	Belgium	-	10	-	-
	Australia	-	10	-	-
Propane-1,2-diol 57-55-6	United Kingdom	-	10	-	-
	United Kingdom	150	474	-	-
	New Zealand	150	474	-	-
	Latvia	-	7	-	-
	Ireland	-	10	-	-
	Ireland	150	470	-	-
	Canada - Ontario	-	10	-	-
	Canada - Ontario	50	155	-	-
	Australia	-	10	-	-
	Australia	150	474	-	-
Ethanol 64-17-5	USA - OSHA	1000	1900	-	-
	South Korea	1000	1900	-	-
	Ireland	-	-	1000	-
	Germany (AGS)	500	960	1000	1920
	Denmark	1000	1900	2000	3800
	Australia	1000	1880	-	-
Isopentyl acetate 123-92-2	USA - OSHA	100	525	-	-
	South Korea	50	260	100	520
	Ireland	50	260	100	520
	Germany (AGS)	50	270	50	270
	Denmark	50	266	100	532
	Australia	50	270	100	541
Ethyl acetate 141-78-6	USA - OSHA	400	1400	-	-
	South Korea	400	1400	-	-
	Ireland	200	-	400	-
	Germany (AGS)	400	1500	800	3000
	Denmark	150	540	300	1080
	Australia	200	720	400	1440

◆ Biological limit values

Biological limit values	No information available
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◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

◆ Derived No effect level(DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Glycerol 56-81-5	Inhalation	No data available	No data available	56 mg/m ³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Propane-1,2- diol 57-55-6	Inhalation	No data available	No data available	10 mg/m ³	168 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Cannabidiol 13956-29-1	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2-ethyl-3-hy droxy-4-pyro ne 4940-11-8	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Vanillin 121-33-5	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Benzaldehyd e propylene glycol acetal 2568-25-4	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethanol 64-17-5	Inhalation	No data available	No data available	No data available	950 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Lemon oil 8008-56-8	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Benzyl propionate 122-63-4	Inhalation	No data available	No data available	No data available	23.70mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Maltol 118-71-8	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethyl butyrate 105-54-4	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethyl 2-methylbuty rate 7452-79-1	Inhalation	No data available	No data available	No data available	26 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Isopentyl	Inhalation	No data available	No data available	No data available	20.8 mg/m ³

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acetate 123-92-2	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethyl isovalerate 108-64-5	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethyl vanillin 121-32-4	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Allyl heptanoate 142-19-8	Inhalation	No data available	No data available	No data available	16 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Allyl hexanoate 123-68-2	Inhalation	No data available	No data available	No data available	15 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Leaf acetate 3681-71-8	Inhalation	No data available	No data available	No data available	11.75 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethyl acetate 141-78-6	Inhalation	No data available	No data available	734 mg/m ³	734 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Linalool 78-70-6	Inhalation	No data available	No data available	No data available	2.8 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

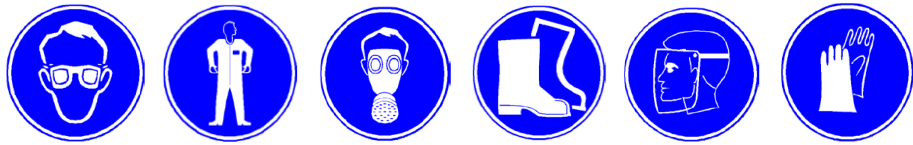
◆ Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	No information available
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| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).
Hand protection	Wear protective gloves(such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and body protection	Wear fire/flame resistant/retardant clothing and antistatic boots.
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9 Physical and chemical properties

Physical and chemical properties

Appearance	Yellow liquid
Odor	No information available
Odor threshold	No information available
pH	6~7.5
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	185~210
Flash point(Closed cup,°C)	> 100
Evaporation rate	Not applicable
Flammability	Not flammable
Upper/lower explosive limits[%(v/v)]	Upper limit : 13-15 ; Lower limit : 2.6-3.5
Vapor pressure	Not applicable
Vapor density(Air = 1)	2.5-2.8
Relative density(Water= 1)	1.060-1.180
Solubility(mg/L)	Miscibility in many organic solvent
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	360-400
Decomposition temperature(°C)	No information available
Viscosity(mm²/s)	Not applicable
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

10 Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with oxidants causes severe reactions, and may cause a fire or explosion. In contact with metal alkoxides may cause a fire.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidants, alkali metals, alkaline earth metals and aluminum. Metal alkyl oxide, metal hydride, inorganic peroxide, nitrate and halogens oxyacid salts.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

CANNAPRESSO CBD E-LIQUID (≤1000mg/10ml)

Component	Cas No.	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Allyl heptanoate	142-19-8	500mg/kg(Rat)	810mg/kg(Rabbit)	No information available
Glycerol	56-81-5	12600mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available
Linalool	78-70-6	2790mg/kg(Rat)	5610mg/kg(Rabbit)	No information available
Maltol	118-71-8	1410mg/kg(Rat)	No information available	No information available
Leaf acetate	3681-71-8	> 5000mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Ethyl acetate	141-78-6	5620mg/kg(Rat)	No information available	No information available
Benzaldehyde propylene glycol acetal	2568-25-4	3000mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Isopentyl acetate	123-92-2	16600mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Ethanol	64-17-5	7060mg/kg(Rat)	No information available	39mg/L(Mouse)
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	1150mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Ethyl vanillin	121-32-4	1590mg/kg(Rat)	> 7940mg/kg(Rabbit)	No information available
Ethyl isovalerate	108-64-5	7031mg/kg(Rabbit)	No information available	No information available
Propane-1,2-diol	57-55-6	20000mg/kg(Rat)	20800mg/kg(Rabbit)	No information available
Vanillin	121-33-5	1580mg/kg(Rat)	> 5010mg/kg(Rabbit)	No information available
Allyl hexanoate	123-68-2	218mg/kg(Rat)	300mg/kg(Rabbit)	No information available
Benzyl propionate	122-63-4	3300mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Ethyl butyrate	105-54-4	13000mg/kg(Rat)	> 2000mg/kg(Rabbit)	No information available
Lemon oil	8008-56-8	2840mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available

Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	56-81-5	Glycerol	Not Listed	Not Listed
2	57-55-6	Propane-1,2-diol	Not Listed	Not Listed

CANNAPRESSO CBD E-LIQUID (≤1000mg/10ml)

3	13956-29-1	Cannabidiol	Not Listed	Not Listed
4	4940-11-8	2-ethyl-3-hydroxy-4-pyrone	Not Listed	Not Listed
5	121-33-5	Vanillin	Not Listed	Not Listed
6	2568-25-4	Benzaldehyde propylene glycol acetal	Not Listed	Not Listed
7	64-17-5	Ethanol	Not Listed	Not Listed
8	8008-56-8	Lemon oil	Not Listed	Not Listed
9	122-63-4	Benzyl propionate	Not Listed	Not Listed
10	118-71-8	Maltol	Not Listed	Not Listed
11	105-54-4	Ethyl butyrate	Not Listed	Not Listed
12	7452-79-1	Ethyl 2-methylbutyrate	Not Listed	Not Listed
13	123-92-2	Isopentyl acetate	Not Listed	Not Listed
14	108-64-5	Ethyl isovalerate	Not Listed	Not Listed
15	121-32-4	Ethyl vanillin	Not Listed	Not Listed
16	142-19-8	Allyl heptanoate	Not Listed	Not Listed
17	123-68-2	Allyl hexanoate	Not Listed	Not Listed
18	3681-71-8	Leaf acetate	Not Listed	Not Listed
19	141-78-6	Ethyl acetate	Not Listed	Not Listed
20	78-70-6	Linalool	Not Listed	Not Listed

Others

CANNAPRESSO CBD E-LIQUID (≤1000mg/10ml)	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Suspected of damaging fertility or the unborn child
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Propane-1,2-diol	57-55-6	LC ₅₀ : 39800mg/L (96h)(Fish)	EC ₅₀ : >1000mg/L (48h)(Crustaceans)	ErC ₅₀ : >1000mg/L (72h)(Algae)

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Glycerol	56-81-5	LC ₅₀ : 68100mg/L (96h)(Fish)	No information available	No information available
Linalool	78-70-6	LC ₅₀ : 39mg/L (96h)(Fish)	EC ₅₀ : 52mg/L (48h)(Crustaceans)	ErC ₅₀ : >34mg/L (72h)(Algae)
Vanillin	121-33-5	LC ₅₀ : 116mg/L (96h)(Fish)	No information available	No information available
Ethyl acetate	141-78-6	LC ₅₀ : 328mg/L (96h)(Fish)	No information available	ErC ₅₀ : 2500mg/L (96h)(Algae)
Ethanol	64-17-5	LC ₅₀ : 11000mg/L (96h)(Fish)	EC ₅₀ : 9950mg/L (48h)(Crustaceans)	No information available

Chronic aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Propane-1,2-diol	57-55-6	NOEC : >100mg/L(Fish)	NOEC : 1000mg/L(Crustaceans)	NOEC : 1000mg/L(Algae)
Linalool	78-70-6	No information available	NOEC : 9.5mg/L(Crustaceans)	NOEC : 5.6mg/L(Algae)

Persistence and degradability

Component	Cas No.	Persistence (water/soil)	Persistence (air)
Ethyl isovalerate	108-64-5	Low	Low
Maltol	118-71-8	Low	Low
Ethyl vanillin	121-32-4	Low	Low
Vanillin	121-33-5	Low	Low
Benzyl propionate	122-63-4	Low	Low
Allyl hexanoate	123-68-2	Low	Low
Isopentyl acetate	123-92-2	Low	Low
Allyl heptanoate	142-19-8	Low	Low
Leaf acetate	3681-71-8	Low	Low
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	High	High
Propane-1,2-diol	57-55-6	Low	Low
Ethanol	64-17-5	Low(Half-life = 2.17 days)	Low(Half-life = 5.08 days)
Ethyl 2-methylbutyrate	7452-79-1	Low	Low
Linalool	78-70-6	High	High
Lemon oil	8008-56-8	Low	Low

Bioaccumulative potential

Component	Cas No.	Bioaccumulative potential	comments
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CANNAPRESSO CBD E-LIQUID (≤1000mg/10ml)

Ethyl isovalerate	108-64-5	Low	Log K _{OW} =2.264
Maltol	118-71-8	Low	Log K _{OW} =0.09
Ethyl vanillin	121-32-4	Low	Log K _{OW} =1.58
Vanillin	121-33-5	Low	Log K _{OW} =1.21
Benzyl propionate	122-63-4	Low	Log K _{OW} =2.572
Allyl hexanoate	123-68-2	Low	Log K _{OW} =3.1833
Isopentyl acetate	123-92-2	Low	Log K _{OW} =2.13
Allyl heptanoate	142-19-8	Low	Log K _{OW} =3.6744
Leaf acetate	3681-71-8	Low	Log K _{OW} =2.6136
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	Low	Log K _{OW} =1.787
Propane-1,2-diol	57-55-6	Low	BCF=1
Ethanol	64-17-5	Low	Log K _{OW} =-0.31
Ethyl 2-methylbutyrate	7452-79-1	Low	Log K _{OW} =2.264
Linalool	78-70-6	Low	Log K _{OW} =2.97
Lemon oil	8008-56-8	Low	Log K _{OW} =1.93

| Mobility in soil

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (K_{oc})
Ethyl isovalerate	108-64-5	Low	33.78
Maltol	118-71-8	High	1
Ethyl vanillin	121-32-4	Low	70.92
Vanillin	121-33-5	Low	38.45
Benzyl propionate	122-63-4	Low	258.4
Allyl hexanoate	123-68-2	Low	137.1
Isopentyl acetate	123-92-2	Low	32.24
Allyl heptanoate	142-19-8	Low	252.8
Leaf acetate	3681-71-8	Low	70.95
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	Low	10
Propane-1,2-diol	57-55-6	High	1
Ethanol	64-17-5	High	1
Ethyl 2-methylbutyrate	7452-79-1	Low	36.12
Linalool	78-70-6	Low	56.32
Lemon oil	8008-56-8	Low	652.6

Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 2015/830)
Glycerol	56-81-5	not PBT/vPvB
Propane-1,2-diol	57-55-6	not PBT/vPvB
Cannabidiol	13956-29-1	not PBT/vPvB
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	not PBT/vPvB
Vanillin	121-33-5	not PBT/vPvB
Benzaldehyde propylene glycol acetal	2568-25-4	not PBT/vPvB
Ethanol	64-17-5	not PBT/vPvB
Lemon oil	8008-56-8	not PBT/vPvB
Benzyl propionate	122-63-4	not PBT/vPvB
Maltol	118-71-8	not PBT/vPvB
Ethyl butyrate	105-54-4	not PBT/vPvB
Ethyl 2-methylbutyrate	7452-79-1	not PBT/vPvB
Isopentyl acetate	123-92-2	not PBT/vPvB
Ethyl isovalerate	108-64-5	not PBT/vPvB
Ethyl vanillin	121-32-4	not PBT/vPvB
Allyl heptanoate	142-19-8	not PBT/vPvB
Allyl hexanoate	123-68-2	not PBT/vPvB
Leaf acetate	3681-71-8	not PBT/vPvB
Ethyl acetate	141-78-6	not PBT/vPvB
Linalool	78-70-6	not PBT/vPvB

13 Disposal considerations**Disposal considerations**

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section 13.1 and 13.2.

14 Transport information**Label and Mark**

Transporting Label	Not applicable
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IMDG-CODE

CANNAPRESSO CBD E-LIQUID (≤1000mg/10ml)

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
ICAO/IATA-DG	
ICAO/IATA-DG	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
UN-ADR	
UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Glycerol	✓	✓	✓	✓	✓	✓	✓	✓	✓
Propane-1,2-diol	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cannabidiol	✗	✗	✗	✗	✗	✗	✗	✗	✗
2-ethyl-3-hydroxy-4-pyrone	✓	✓	✓	✓	✓	✓	✗	✓	✓
Vanillin	✓	✓	✓	✓	✓	✓	✓	✓	✓
Benzaldehyde propylene glycol acetal	✓	✓	✗	✓	✓	✓	✓	✓	✓
Ethanol	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lemon oil	✗	✓	✓	✓	✓	✓	✓	✓	✗
Benzyl propionate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Maltol	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ethyl butyrate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ethyl 2-methylbutyrate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Isopentyl acetate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ethyl isovalerate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ethyl vanillin	✓	✓	✓	✓	✓	✓	✓	✓	✓
Allyl heptanoate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Allyl hexanoate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Leaf acetate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ethyl acetate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Linalool	✓	✓	✓	✓	✓	✓	✓	✓	✓

- 【EINECS】** European Inventory of Existing Commercial Chemical Substances
- 【TSCA】** United States Toxic Substances Control Act Inventory
- 【DSL】** Canadian Domestic Substances List
- 【IECSC】** China Inventory of Existing Chemical Substances
- 【NZIoC】** New Zealand Inventory of Chemicals
- 【PICCS】** Philippines Inventory of Chemicals and Chemical Substances
- 【KECI】** Existing and Evaluated Chemical Substances
- 【AICS】** Australia Inventory of Chemical Substances

European chemical inventory

Component	A	B	C	D	E	F	G
Glycerol	×	×	×	✓	✓	×	×
Propane-1,2-diol	×	×	×	✓	✓	×	×
Cannabidiol	×	×	✓	✓	✓	✓	×
2-ethyl-3-hydroxy-4-pyrone	×	×	×	✓	×	×	×
Vanillin	×	×	×	✓	✓	×	×
Benzaldehyde propylene glycol acetal	×	×	×	✓	×	×	×
Ethanol	×	×	✓	✓	✓	×	×
Lemon oil	×	×	×	✓	×	×	×
Benzyl propionate	×	×	×	✓	✓	×	×
Maltol	×	×	×	✓	×	×	×
Ethyl butyrate	×	×	×	✓	×	×	×
Ethyl 2-methylbutyrate	×	×	×	✓	✓	×	×
Isopentyl acetate	×	×	✓	✓	✓	×	×
Ethyl isovalerate	×	×	×	✓	×	×	×
Ethyl vanillin	×	×	×	✓	✓	×	×
Allyl heptanoate	×	×	×	✓	✓	×	×
Allyl hexanoate	×	×	×	✓	✓	×	×
Leaf acetate	×	×	×	✓	✓	×	×
Ethyl acetate	×	×	✓	✓	✓	×	×
Linalool	×	×	×	✓	✓	×	×

【A】 Candidate list of Substances of Very High Concern for authorization under EU REACH regulation

【B】 Substances requiring authorisation under EU REACH regulation

【C】 Substances restricted under EU REACH

【D】 Pre-registered substances under EU REACH

【E】 Registered substances under EU REACH

【F】 Substance Evaluation – CoRAP under EU REACH

【G】 List of priority substances under EU water policy (Directive 2455/2001/EC)

Note

"✓" Indicates that the substance included in the regulations

"×" That no data or included in the regulations

16 Others**Information on revision**

CANNAPRESSO CBD E-LIQUID (≤1000mg/10ml)

Creation Date	2018/05/07
Revision Date	2018/05/07
Reason for revision	-

Reference

- [1]IPCS:The International Chemical Safety Cards (ICSC) ,website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2]IARC , website: <http://www.iarc.fr/>.
- [3]OECD: The Global Portal to Information on Chemical Substances, website:
http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.
- [4]CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5]NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6]EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7]U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8]Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

CAS –Chemical Abstracts Service	CMR - Carcinogens, mutagens or substances toxic to reproduction
PC-STEL - Short term exposure limit	PC-TWA - Time Weighted Average
DNEL - Derived No Effect Level	IARC - International Agency for Research on Cancer
RPE - Respiratory Protective Equipment	PNEC –Predicted No Effect Concentration
LC₅₀ - Lethal Concentration 50%	LD₅₀ - Lethal Dose 50%
NOEC -No Observed Effect Concentration	EC₅₀ - Effective Concentration 50%
PBT - Persistent, Bioaccumulative, Toxic	POW - Partition coefficient Octanol:Water
BCF - Bioconcentration factor (BCF)	vPvB - very Persistent, very Bioaccumulative
IMDG -International Maritime Dangerous Goods	ICAO/IATA -International Civil Aviation Organization/International Air Transportation Association
UN -The United Nations	ACGIH -American Conference of Governmental Industrial Hygienists
NFPA -National Fire Protection Association	OECD -Organization for Economic Co-operation and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.