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1 Identification

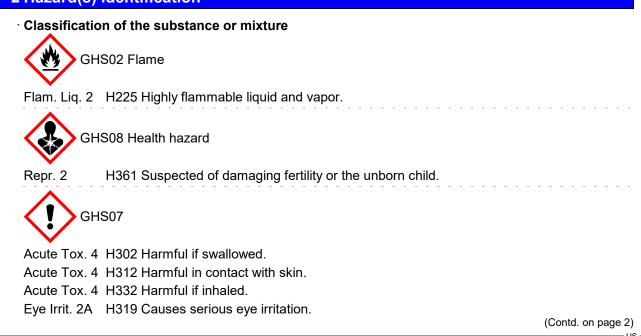
- Product identifier
- Trade name: Phytocannabinoid Mixture 11 (CRM) (0.5 ml, 1 mg/ml)
- · Article number: 21306
- · Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA

· Information department: Product safety department • Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CĂNADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification



US

US

Safety Data Sheet acc. to OSHA HCS

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	(Contd. from page 1)
· Label elements	
· GHS label elemen	ite
	sified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictogram	
\wedge	
GHS02 GHS07	GHS08
GH302 GH307	GH300
. Cianal ward Dana	
 Signal word Dang 	
· Hazard-determini	ng components of labeling:
Acetonitrile	
 Hazard statement 	'S
H225	Highly flammable liquid and vapor.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
 Precautionary sta 	
	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
	Keep away from heat/sparks/open flames/hot surfaces No smoking.
	Keep container tightly closed.
	Ground/bond container and receiving equipment.
	Use explosion-proof electrical/ventilating/lighting/equipment.
	Use only non-sparking tools.
	Take precautionary measures against static discharge.
	Avoid breathing dust/fume/gas/mist/vapors/spray
	Wash thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
	IF exposed or concerned: Get medical advice/attention.
	Specific treatment (see on this label).
	Take off contaminated clothing and wash it before reuse.
	If eye irritation persists: Get medical advice/attention.
	In case of fire: Use CO2, powder or water spray to extinguish.
	Store in a well-ventilated place. Keep cool.
	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
 Classification sys 	
 NFPA ratings (sca 	ale 0 - 4)
A	
Healtl	
Fire =	
	tivity = 0
·	(Contd. on page 3)

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· HMIS-ratings (scale 0 - 4)



² Health = 2
³ Fire = 3
⁰ Reactivity = 0

· Other hazards

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

 Dangerous component 	ents:	
CAS: 75-05-8 RTECS: AL7700000	Acetonitrile	98.9%
CAS: 521-35-7 RTECS: HP8575000	Cannabinol	0.1%
CAS: 1244-58-2 RTECS: DG8577600	Cannabidiolic Acid	0.1%
CAS: 13956-29-1 RTECS: VH1600000	Cannabidiol	0.1%
CAS: 24274-48-4 RTECS: CZ9021720	Cannabidivarin	0.1%
CAS: 31262-37-0 RTECS: HP8558000	Tetrahydrocannabivarin	0.1%
· Other ingredients		
CAS: 25555-57-1	Cannabigerolic Acid	0.1%
CAS: 25654-31-3 RTECS: CZ8944848	Cannabigerol	0.1%
	Tetrahydrocannabinolic Acid	0.1%
	.delta.9-Tetrahydrocannabinol	0.1%
	(±)-Cannabichromene	0.1%
	.delta.8-Tetrahydrocannabinol	0.1%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately rinse with water.

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• After eye contact:

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- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Immediately call a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

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

• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture
- Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. Container explosion may occur under fire conditions.
- Emits toxic fumes under fire conditions.

Sensitive to static discharge.

Vapors can travel to a source of ignition and flash back.

- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals · PAC-1: 75-05-8 Acetonitrile 13 ppm · PAC-2: 75-05-8 Acetonitrile 50 ppm · PAC-3: 75-05-8 Acetonitrile 150 ppm

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7 Handling and storage · Handling: · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available. · Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and flame. Keep container tightly closed. Store in accordance with information listed on the product insert. · Storage: • Requirements to be met by storerooms and receptacles: Store in a cool location. · Information about storage in one common storage facility: Not required. · Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. · Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection · Additional information about design of technical systems: No further data; see item 7. · Control parameters Components with limit values that require monitoring at the workplace: The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits. 75-05-8 Acetonitrile PEL Long-term value: 70 mg/m³, 40 ppm REL Long-term value: 34 mg/m³, 20 ppm TLV Long-term value: 20 ppm Skin, A4 • Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

 Information on basic physical and General Information 	chemical properties
· Appearance:	
Form:	Fluid
Color:	Colorless
· Odor:	Aromatic
• Structural Formula	C H3 - C N
· Molecular Weight	41.05 g/mol
· Odor threshold:	Not determined.
· Formulation	A solution in acetonitrile (1 mg/ml of each compound)
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	-46 °C (-50.8 °F) 81 °C (177.8 °F)
Flash point:	5 °C (41 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	525 °C (977 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
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· Explosion limits:		
Lower:	4.4 Vol %	
Upper:	16 Vol %	
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)	
· Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity:		
Dynamic at 20 °C (68 °F):	0.39 mPas	
Kinematic:	Not determined.	
· Solvent content:		
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.7 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

		nt for classification:	
ATE (Acute	Toxicity Estimate)		
Oral	LD50	2,487 mg/kg (rat)	
Dermal	LD50	991 mg/kg (rabbit)	
Inhalative	LC50/4 h	11.1 mg/l	
75-05-8 Acet	tonitrile		
Oral	TDLO	64 ml/kg (man)	
	LD50	2,460 mg/kg (rat)	
			(Contd. on page 8

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Dermal LD50 980 mg/kg (rabbit) Inhalative LC50/4 h 7,551 mg/m³ (rat) LC50 7,551 mg/m³/8h (rat) TCLO 160 mg/m³/4h (nmn) Irritation of eyes Irritation 100 µl/24 hr (rabbit) Irritation 100 µl/24 hr (rabbit) Intraportation 521-35-7 Canne-biol 13,500 mg/kg (mouse) Intraportationeal TDLO Oral LD50 13,500 mg/kg (mouse) Intraportationeal TDLO 150 mg/kg (mouse) 1ntraportationeal TDLO 5.63 mg/kg (numan) 5 mg/kg (rat) 5 mg/kg (rat) Intraportationeal TDLO 5 mg/kg (mouse) Intraportationeal TDLO 3 mg/kg (mouse)	Dermal		(Contd. from pag
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TCLO 160 mg/m³/4h (hmn) Irritation 100 µl/24 hr (rabbit) 521-35-7 Cannabinol 100 il/24 hr (rabbit) Oral LD50 13,500 mg/kg (mouse) Intraperitoneal TDLO 150 mg/kg/3D intermittent (mouse) 13956-29-1 Cannabidol TOLO 5.63 mg/kg (mouse) Oral LD50 13,500 mg/kg (mouse) 113956-29-1 Cannabidol 5.63 mg/kg (mouse) Oral LD50 5.63 mg/kg (mouse) TDLO 5.63 mg/kg (mouse) Intraperitoneal TDLO 5 mg/kg (rat) Intraperitoneal TDLO 5 mg/kg (mouse) Intraperitoneal TDLO 5 mg/kg (mouse) Intraperitoneal TDLO 5 mg/kg (mouse) Intraperitoneal TDLO 0.3 mg/kg (mouse) Intravenous TDLo 0.3 mg/kg (mouse) Primary irritant effect: 0.3 mg/kg (mouse) on the skin: No irritant effect. 0.3 mg/kg (mouse) Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Irritant Carcinogenic categories IARC (International Agency for Research on Cancer)	Inhalative	LC50/4 h	7,551 mg/m³ (rat)
Irritation of eyes Irritation 100 μl/24 hr (rabbit) fritation 100 μl/24 hr (rabbit) 521-35-7 Cannabinol 13,500 mg/kg (mouse) Gral LD50 13,500 mg/kg (mouse) 13956-29-1 Cannabidol 100 mg/kg (mouse) Oral LD50 13,500 mg/kg (mouse) 13956-29-1 Cannabidol 5.63 mg/kg (mouse) Oral LD50 5.63 mg/kg (nouse) 11rtaperitoneal TDL0 5 mg/kg (rat) Intraperitoneal TDL0 5 mg/kg (mouse) 11rtaperitoneal TDL0 3 mg/kg (mouse) 11rtaperitoneal TDL0 3 mg/kg (mouse) Intraperitoneal TDL0 3 mg/kg (mouse) Intravenous TDL0 0.3 mg/kg (mouse) Primary irritant effect: 0.3 mg/kg (mouse) on the skin: No irritant effect. 0.3 mg/kg (mouse) Additional toxicoligal information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. Stock of the ingredients is listed. OSHA-Ca (Occuational Safety & Health Administration)		LC50	7,551 mg/m³/8h (rat)
Irritation 100 il/24 hr (rabbit) 521-35-7 Cannabinol 13,500 mg/kg (mouse) Oral LD50 13,500 mg/kg (mouse) 13956-29-1 Cannabidiol 100 il/24 hr (rabbit) Oral LD50 13,500 mg/kg (mouse) 13956-29-1 Cannabidiol 13,500 mg/kg (mouse) Oral LD50 13,500 mg/kg (mouse) Intraperitoneal TDLO 5.63 mg/kg (human) 5 mg/kg (rat) 11 Intraperitoneal TDLO 5 mg/kg (mouse) Intravenous TDLo 0.3 mg/kg (mouse) Primary irritant effect: 0.3 mg/kg (mouse) on the skin: No irritant effect. 0.3 mg/kg (mouse) Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration) Galantistration)		TCLO	160 mg/m³/4h (hmn)
521-35-7 Cannabinol Oral LD50 13,500 mg/kg (mouse) Intraperitoneal TDLO 150 mg/kg/3D intermittent (mouse) 13956-29-1 Cannabidiol 13,500 mg/kg (mouse) Oral LD50 13,500 mg/kg (mouse) TDLO 5.63 mg/kg (human) 5 mg/kg (rat) Intraperitoneal TDLO 5 mg/kg (rat) 31262-37-0 Tetrahydrocannabivarin Intraperitoneal TDLO 5 mg/kg (mouse) Intraperitoneal TDLO 3 mg/kg (mouse) Intravenous TDLo 0.3 mg/kg (mouse) Intravenous TDLo 0.3 mg/kg (mouse) Primary irritant effect: on the skin: No irritant effect. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration) SHA-Ca (Occupational Safety & Health Administration) State Administration)	Irritation of eyes	Irritation	100 μl/24 hr (rabbit)
Oral LD50 13,500 mg/kg (mouse) Intraperitoneal TDLO 150 mg/kg/3D intermittent (mouse) 13956-29-1 Cammabidioi 13,500 mg/kg (mouse) Oral LD50 13,500 mg/kg (mouse) TDLO 5.63 mg/kg (human) 5 mg/kg (rat) Intraperitoneal TDLO 5 mg/kg (rat) 31262-37-0 Tetrahydrocannabivarin Intraperitoneal TDLO 3 mg/kg (mouse) Intravenous TDLO 3 mg/kg (mouse) Intravenous TDLO Intravenous TDLO 3 mg/kg (mouse) 0.3 mg/kg (mouse) Primary irritant effect: on the skin: No irritant effect. on the skin: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)		Irritation	100 ìl/24 hr (rabbit)
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13956-29-1 Cannabidiol Oral LD50 13,500 mg/kg (mouse) TDLO 5.63 mg/kg (human) 5 mg/kg (rat) Intraperitoneal TDLO 31262-37-0 Tetrahydrocannabivarin Intraperitoneal TDLO Intraperitoneal TDLO 3 mg/kg (mouse) Intraperitoneal TDLO 3 mg/kg (mouse) Intravenous TDLo 0.3 mg/kg (mouse) Primary irritant effect: 0.3 mg/kg (mouse) on the skin: No irritant effect. 0.3 mg/kg (mouse) Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritatt Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)	Oral	LD50	13,500 mg/kg (mouse)
Oral LD50 13,500 mg/kg (mouse) TDLO 5.63 mg/kg (human) 5 mg/kg (rat) Intraperitoneal TDLO 5 mg/kg (rat) 31262-37-0 Tetrahydrocannabivarin Intraperitoneal TDLO 3 mg/kg (mouse) Intravenous TDLO 3 mg/kg (mouse) Primary irritant effect: 0.3 mg/kg (mouse) on the skin: No irritant effect. 0.3 mg/kg (mouse) Primary irritating effect. 5 sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration) 13,500 mg/kg (mouse)		Intraperitoneal TDLO	150 mg/kg/3D intermittent (mouse)
TDLO 5.63 mg/kg (human) 5 mg/kg (rat) Intraperitoneal TDLO 5 mg/kg (rat) 31262-37-0 Tetr=hydrocannabivarin Intraperitoneal TDLO 3 mg/kg (mouse) Intravenous TDLO 0.3 mg/kg (mouse) Primary irritant effect: 0.3 mg/kg (mouse) on the skin: No irritant effect. 0.3 mg/kg (mouse) Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)	13956-29-1 Can	nabidiol	
5 mg/kg (rat) 31262-37-0 Tetrahydrocannabivarin Intraperitoneal TDLO 3 mg/kg (mouse) Intravenous TDLo 3 mg/kg (mouse) Intravenous TDLo 0.3 mg/kg (mouse) Primary irritant effect: on the skin: No irritant effect. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)	Oral	LD50	13,500 mg/kg (mouse)
Intraperitoneal TDLO 5 mg/kg (rat) 31262-37-0 Tetrahydrocannabivarin Intraperitoneal TDLO 3 mg/kg (mouse) Intravenous TDLo 0.3 mg/kg (mouse) Primary irritant effect: on the skin: No irritant effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)		TDLO	5.63 mg/kg (human)
31262-37-0 Tetrahydrocannabivarin Intraperitoneal TDLO 3 mg/kg (mouse) Intravenous TDLo 0.3 mg/kg (mouse) Primary irritant effect: 0.3 mg/kg (mouse) on the skin: No irritant effect. 0.3 mg/kg (mouse) Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)			5 mg/kg (rat)
Intraperitoneal TDLO 3 mg/kg (mouse) Intravenous TDLo 0.3 mg/kg (mouse) Primary irritant effect: 0.3 mg/kg (mouse) on the skin: No irritant effect. 0.3 mg/kg (mouse) Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)		Intraperitoneal TDLO	5 mg/kg (rat)
Intravenous TDLo 0.3 mg/kg (mouse) Primary irritant effect: on the skin: No irritant effect. on the eye: Irritating effect. sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)	31262-37-0 Tetr	ahydrocannabivarin	
Primary irritant effect: on the skin: No irritant effect. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)		Intraperitoneal TDLO	3 mg/kg (mouse)
 on the skin: No irritant effect. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration) 		Intravenous TDLo	0.3 mg/kg (mouse)
IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)	Sensitization: N	No sensitizing effects kr	nown.
None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)	Sensitization: N Additional toxic The product she preparations: Harmful	No sensitizing effects ki cological information:	:
 NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration) 	Sensitization: N Additional toxic The product she preparations: Harmful Irritant Carcinogenic c	No sensitizing effects kr cological information: ows the following dan ategories	ers according to internally approved calculation methods
None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)	Sensitization: N Additional toxic The product sho preparations: Harmful Irritant Carcinogenic ca IARC (Internatio	No sensitizing effects ki cological information: ows the following dan ategories onal Agency for Rese	ers according to internally approved calculation methods
OSHA-Ca (Occupational Safety & Health Administration)	Sensitization: N Additional toxic The product she preparations: Harmful Irritant Carcinogenic ca IARC (Internatio None of the ingre	No sensitizing effects kr cological information: ows the following dan ategories onal Agency for Rese edients is listed.	ers according to internally approved calculation methods
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Ecological information	Sensitization: N Additional toxic The product sho preparations: Harmful Irritant Carcinogenic ca IARC (Internation None of the inground NTP (National T None of the inground OSHA-Ca (Occur)	No sensitizing effects ki cological information: ows the following dan ategories onal Agency for Rese edients is listed. Toxicology Program) edients is listed. upational Safety & He	gers according to internally approved calculation methods arch on Cancer)
Ecological information	Sensitization: N Additional toxic The product she preparations: Harmful Irritant Carcinogenic ca IARC (Internatio None of the ingre NTP (National T None of the ingre OSHA-Ca (Occu None of the ingre	No sensitizing effects kr cological information: ows the following dan ategories onal Agency for Rese edients is listed. Foxicology Program) edients is listed. upational Safety & He edients is listed.	gers according to internally approved calculation methods arch on Cancer)

- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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Trade name: Phytocannabinoid Mixture 11 (CRM) (0.5 ml, 1 mg/ml)

(Contd. from page 8)

· Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

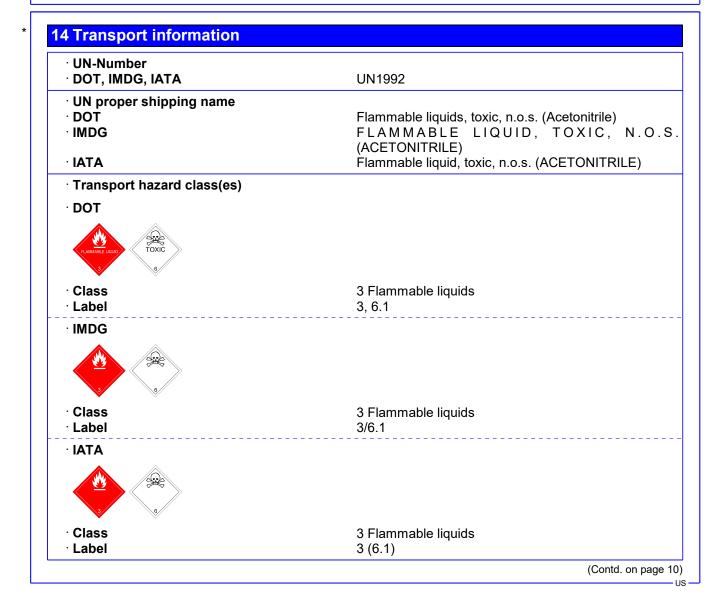
• Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.



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Trade name: Phytocannabinoid Mixture 11 (CRM) (0.5 ml, 1 mg/ml)

	(Contd. from page 9
 Packing group DOT, IMDG, IATA 	II
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code) EMS Number: Stowage Category Stowage Code 	Warning: Flammable liquids : 336 F-E,S-D B SW2 Clear of living quarters.
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
 Transport/Additional information: DOT Quantity limitations 	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IATA · Remarks:	When sold in quantities of less than or equal to 1 mL or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S (ACETONITRILE), 3 (6.1), II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

Section 355	(extremely	y hazardous	substances)	:
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None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

75-05-8 Acetonitrile

• TSCA (Toxic Substances Control Act):

75-05-8 Acetonitrile

ACTIVE

Hazardous Air Pollutants
 75-05-8 Acetonitrile

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Phytocannabinoid Mixture 11 (CRM) (0.5 ml, 1 mg/ml)

(Contd. from page 10)

· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

75-05-8 Acetonitrile

TLV (Threshold Limit Value)

75-05-8 Acetonitrile

• NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

· Contact: -

- · Date of preparation / last revision 01/17/2022 / -
- Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA: Occupational Safety & Health** TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

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Trade name: Phytocannabinoid Mixture 11 (CRM) (0.5 ml, 1 mg/ml)

(Contd. from page 11)

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Repr. 2: Reproductive toxicity – Category 2 • * Data compared to the previous version altered.