

## Safety Data Sheet acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

### 1 Identification

- **Product identifier**
- **Trade name:** Cannabis Terpenes Mixture 2 (CRM)
- **Synonym**
- **Article number:** 40527
- **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/CANADA: 800-424-9300  
Outside US/CANADA: 703-741-5970

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 2

H351 Suspected of causing cancer.

Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 2

H373 May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard 1

H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 1)

Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.
Aquatic Acute 3	H402 Harmful to aquatic life.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

toluene  
 $\beta$ -Myrcene  
 Isopropyl alcohol  
 p-cymene  
 $\alpha$ -Pinene  
 $\beta$ -Caryophyllene  
 Geraniol  
 (+)-3-Carene  
 Terpinolene  
 (+)-Limonene  
 Phytol

· **Hazard statements**

H225 Highly flammable liquid and vapor.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.  
 H361 Suspected of damaging fertility or the unborn child.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H304 May be fatal if swallowed and enters airways.  
 H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 Wash thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing must not be allowed out of the workplace.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 2)

- P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310 If swallowed: Immediately call a poison center/doctor.  
 P321 Specific treatment (see on this label).  
 P331 Do NOT induce vomiting.  
 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.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P312 Call a poison center/doctor if you feel unwell.  
 P314 Get medical advice/attention if you feel unwell.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P363 Wash contaminated clothing before reuse.  
 P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:

- NFPA ratings (scale 0 - 4)



Health = 2  
 Fire = 3  
 Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = 2  
 Fire = 3  
 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 components:

CAS: 67-63-0 RTECS: NT8050000	Isopropyl alcohol	47.5%
CAS: 108-88-3 RTECS: XS 5250000	toluene	47.5%
CAS: 76-22-2 RTECS: EX1225000	Camphor	0.25%

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 3)

CAS: 80-56-8 RTECS: DT7000000	$\alpha$ -Pinene	0.25%
CAS: 87-44-5 RTECS: DT8400000	$\beta$ -Caryophyllene	0.25%
CAS: 99-87-6 RTECS: GZ5950000	p-cymene	0.25%
CAS: 106-24-1 RTECS: RG5830000	Geraniol	0.25%
CAS: 106-25-2 RTECS: RG5840000	Nerol	0.25%
CAS: 123-35-3 RTECS: RG5365000	$\beta$ -Myrcene	0.25%
CAS: 498-15-7	(+)-3-Carene	0.25%
CAS: 586-62-9 RTECS: WZ6870000	Terpinolene	0.25%
CAS: 5989-27-5 RTECS: GW6360000	(+)-Limonene	0.25%
CAS: 7541-49-3	Phytol	0.25%
<b>Other ingredients</b>		
CAS: 77-53-2 RTECS: PB7728666	(+)-Cedrol	0.25%
CAS: 89-78-1 RTECS: OT0350000	( $\pm$ )-Menthol	0.25%
CAS: 489-86-1	(-)-Guaial	0.25%
CAS: 2217-02-9	(+)-Fenchol	0.25%
CAS: 3387-41-5 RTECS: DT7327100	Sabinene	0.25%
CAS: 3790-78-1	(Z)-3,7,11-Trimethyldodeca-1,6,10-trien-3-ol	0.25%
CAS: 4695-62-9 RTECS: RB7875200	fenchone	0.25%
CAS: 6753-98-6 RTECS: GZ4817500	$\alpha$ -Humulene	0.25%
CAS: 8000-41-7 RTECS: WZ6600000	Terpineol	0.25%

## 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 and to be sure call for a doctor.

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

#### • After skin contact: Immediately wash with water and soap and rinse thoroughly.

#### • After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### • After swallowing: If symptoms persist consult doctor.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 4)

- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
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:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
67-56-1 During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
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 section 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:

67-63-0	Isopropyl alcohol	400 ppm
108-88-3	toluene	67 ppm
99-87-6	p-cymene	120 mg/m <sup>3</sup>
5989-27-5	(+)-Limonene	15 ppm

### · PAC-2:

67-63-0	Isopropyl alcohol	2000* ppm
108-88-3	toluene	560 ppm
99-87-6	p-cymene	1,300 mg/m <sup>3</sup>
5989-27-5	(+)-Limonene	67 ppm

### · PAC-3:

67-63-0	Isopropyl alcohol	12000** ppm
108-88-3	toluene	3700* ppm
99-87-6	p-cymene	1,900 mg/m <sup>3</sup>

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 5)

5989-27-5 (+)-Limonene

170 ppm

## 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**
- **Storage:** Store in accordance with information listed on the product insert.
- **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 section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

### 67-63-0 Isopropyl alcohol

PEL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

### 108-88-3 toluene

PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV	Long-term value: 20 ppm BEI, OTO, A4

### 76-22-2 Camphor

PEL	Long-term value: 2 mg/m <sup>3</sup>
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(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 6)

REL Long-term value: 2 mg/m<sup>3</sup>

TLV Short-term value: 3 ppm

Long-term value: 2 ppm

A4

**80-56-8 α-Pinene**

TLV Long-term value: 20 ppm

DSEN, A4

**Ingredients with biological limit values:****67-63-0 Isopropyl alcohol**

BEI 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

**108-88-3 toluene**

BEI 0.02 mg/L

Medium: blood

Time: prior to last shift of workweek

Parameter: Toluene

0.03 mg/L

Medium: urine

Time: end of shift

Parameter: Toluene

0.3 mg/g creatinine

Medium: urine

Time: end of shift

Parameter: o-Cresol with hydrolysis (background)

· **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 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.

· **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

(Contd. on page 8)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 7)

- **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 chemical properties**

- **General Information**

- **Appearance:**

- Form:

Liquid

- Color:

According to product specification

- **Odor:**

Characteristic

- **Odor threshold:**

Not determined.

- **Formulation**

A solution in isopropanol:toluene (1:1)

- **pH-value:**

Not determined.

- **Change in condition**

- Melting point/Melting range:

Undetermined.

- Boiling point/Boiling range:

82 °C (179.6 °F)

- **Flash point:**

4 °C (39.2 °F)

- **Flammability (solid, gaseous):**

Highly flammable.

- **Auto igniting:**

425 °C (797 °F)

- **Decomposition temperature:**

Not determined.

- **Ignition temperature:**

Product is not selfigniting.

- **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

- Lower:

1.2 Vol %

- Upper:

12 Vol %

- **Vapor pressure at 20 °C (68 °F):**

43 hPa (32.3 mm Hg)

- **Density:**

Not determined.

- **Relative density**

Not determined.

- **Vapor density**

Not determined.

- **Evaporation rate**

Not determined.

- **Solubility in / Miscibility with**

- Water:

Fully miscible.

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 8)

- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 95.5 %
  - VOC content:** 95.50 %  
955.0 g/l / 7.97 lb/gal
- Solids content:** 4.0 %
- **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:**

- **LD/LC50 values that are relevant for classification:**

### ATE (Acute Toxicity Estimate)

Oral	LD50	40,000 mg/kg (rat)
Inhalative	LC50/4 h	1,200 mg/l (rat)

### 67-63-0 Isopropyl alcohol

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50	16,000 mg/m <sup>3</sup> /8h (rat)
	LC50/4 h	30 mg/l (rat)
Irritation of skin	Irritation	500 mg (rabbit) mild
Irritation of eyes	Irritation	100 mg/24h (rabbit) moderate
	Data	100 mg/24h (rabbit) moderate

### 108-88-3 toluene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)

(Contd. on page 10)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 9)

Inhalative	LC50/4 h	5,320 mg/l (mouse)
<b>80-56-8 <math>\alpha</math>-Pinene</b>		
Oral	LD50	3,700 mg/kg (rat)
Inhalative	LCLO	625 $\mu\text{g}/\text{m}^3$ (rat)
	Intraperitoneal LD	>500 mg/kg (mouse)
<b>87-44-5 <math>\beta</math>-Caryophyllene</b>		
Oral	TDLO	5 ml/kg/4H (mouse)
<b>99-87-6 p-cymene</b>		
Oral	LD50	1,695 mg/kg (mouse) 4,750 mg/kg (rat)
	TDLO	3,000 mg/kg (human)
Inhalative	LC50/4 h	3 mg/l (ATE)
	Intraperitoneal LD50	1,125 mg/kg (mouse)
<b>106-24-1 Geraniol</b>		
Oral	LD50	2,100 mg/kg (rat)
	LD50	3.5 g/kg (mouse)
	Subcutaneous LD50	1,090 mg/kg (mouse)
<b>106-25-2 Nerol</b>		
Oral	LD50	4,500 mg/kg (rat)
<b>123-35-3 <math>\beta</math>-Myrcene</b>		
Oral	LD50	5,060 mg/kg (mouse)
	LD50	>11.39 g/kg (rat)
	Intraperitoneal TDLO	25 mg/kg (mouse)
<b>586-62-9 Terpinolene</b>		
Oral	LD50	4,390 mg/kg (rat)
<b>5989-27-5 (+)-Limonene</b>		
Oral	LD50	4,400 mg/kg (rat)

- Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.

- on the eye: Irritating effect.

- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

67-63-0	Isopropyl alcohol	3
108-88-3	toluene	3
123-35-3	$\beta$ -Myrcene	2B
5989-27-5	(+)-Limonene	3

- NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 11)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 10)

## · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 3 (Self-assessment): extremely hazardous for water  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Danger to drinking water if even extremely small quantities leak into the ground.  
 Harmful to aquatic organisms
- **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.

## 14 Transport information

- |                                  |   |
|----------------------------------|---|
| · <b>UN-Number</b>               | UN1993  |
| · <b>DOT, IMDG, IATA</b>         |   |
| · <b>UN proper shipping name</b> | Flammable liquids, n.o.s. (Toluene, Isopropanol)                    |
| · <b>DOT</b>                     | FLAMMABLE LIQUID, N.O.S. (TOLUENE, ISOPROPANOL (ISOPROPYL ALCOHOL)) |
| · <b>IMDG</b>                    |   |
| · <b>IATA</b>                    | Flammable liquid, n.o.s. (TOLUENE, ISOPROPANOL (ISOPROPYL ALCOHOL)) |

(Contd. on page 12)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 11)

## · Transport hazard class(es)

## · DOT



## · Class

3 Flammable liquids

## · Label

3

## · IMDG, IATA



## · Class

3 Flammable liquids

## · Label

3

## · Packing group

## · DOT, IMDG, IATA

II

## · Environmental hazards:

Not applicable.

## · Special precautions for user

Warning: Flammable liquids

## · Hazard identification number (Kemler code):

33

## · EMS Number:

F-E,S-E

## · Stowage Category

B

## · 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: 5 L

On cargo aircraft only: 60 L

## · IMDG

## · Limited quantities (LQ)

1L

## · Excepted quantities (EQ)

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 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, II

US

(Contd. on page 13)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

Revision date 07/11/2024

Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 12)

## 15 Regulatory information

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

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

67-63-0 Isopropyl alcohol

108-88-3 toluene

- **TSCA (Toxic Substances Control Act):**

67-63-0 Isopropyl alcohol

ACTIVE

108-88-3 toluene

ACTIVE

76-22-2 Camphor

ACTIVE

77-53-2 (+)-Cedrol

ACTIVE

80-56-8  $\alpha$ -Pinene

ACTIVE

87-44-5  $\beta$ -Caryophyllene

ACTIVE

89-78-1 ( $\pm$ )-Menthol

ACTIVE

99-87-6 p-cymene

ACTIVE

106-24-1 Geraniol

ACTIVE

106-25-2 Nerol

ACTIVE

123-35-3  $\beta$ -Myrcene

ACTIVE

489-86-1 (-)-Guaiol

ACTIVE

586-62-9 Terpinolene

ACTIVE

4695-62-9 fenchone

ACTIVE

5989-27-5 (+)-Limonene

ACTIVE

6753-98-6  $\alpha$ -Humulene

ACTIVE

7541-49-3 Phytol

ACTIVE

8000-41-7 Terpineol

ACTIVE

- **Hazardous Air Pollutants**

108-88-3 toluene

- **Proposition 65**

- **Chemicals known to cause cancer:**

123-35-3  $\beta$ -Myrcene

- **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:**

108-88-3 toluene

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

108-88-3 toluene

II

(Contd. on page 14)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/11/2024

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Trade name: Cannabis Terpenes Mixture 2 (CRM)

(Contd. from page 13)

· <b>TLV (Threshold Limit Value)</b>		
67-63-0	Isopropyl alcohol	A4
108-88-3	toluene	A4
76-22-2	Camphor	A4
80-56-8	$\alpha$ -Pinene	A4
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
None of the ingredients is listed.		
· <b>Chemical safety assessment:</b> 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** 07/11/2024 / -

· **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

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

Aspiration Hazard 1: Aspiration hazard – Category 1

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

US