

# Synthetic Cannabinoid HPLC Mixture V (AM

Series)







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Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

# 1. Identification of the Substance/Mixture and of the Company/Undertaking

**Product Code:** 11337

**Product Name:** Synthetic Cannabinoid HPLC Mixture V (AM Series) Intended Use: For research use only, not for human or veterinary use.

**Manufacturer Information** 

**Company Name:** Cayman Chemical Company

CHEMTREC Within USA and Canada: **Emergency Contact:** +1 (800)424-9300 **Alternate Emergency Contact:** CHEMTREC Outside USA and Canada: +1 (703)527-3887 Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

2. Hazards Identification					
GHS Classification	Placard	Key word	GHS Hazard		
Flammable Liquids, Category 2	Flame	Danger	Highly flammable liquid and vapor		
Acute Toxicity: Oral, Category 3	Skull and crossbones	Danger	Toxic if swallowed		
Acute Toxicity: Skin, Category 3	Skull and crossbones	Danger	Toxic in contact with skin		
Acute Toxicity: Inhalation, Category 3	Skull and crossbones	Danger	Toxic if inhaled		
Target Organ Systemic Toxicity (single exposure), Category 1	Health hazard	Danger	Causes damage to organs {eyes}		

**GHS Hazard Phrases:** H225: Highly flammable liquid and vapor

> H301: Toxic if swallowed. H311: Toxic in contact with skin.

H331: Toxic if inhaled.

H370: Causes damage to organs {eyes}

**GHS Precaution Phrases:** P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.

P280: Wear protective gloves/clothing and eye/face protection as specified by the

manufacturer/supplier or the competent authority. P264: Wash hands thoroughly after handling.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

**GHS** Response Phrases: P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.

Rinse skin with water/shower.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P363: Wash contaminated clothing before reuse.

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330: Rinse mouth.

P361: Remove/Take off immediately all contaminated clothing.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

P307+311: IF exposed: Call a POISON CENTER or doctor/physician.

**GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information.



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Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection

Potential Health Effects (Acute and Chronic): Cannot be made nonpoisonous.

Harmful vapors.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be fatal or cause blindness if swallowed.

May cause eye, skin, or respiratory system irritation.

Toxic if swallowed, inhaled, or absorbed through the skin.

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if

swallowed.

Target Organs: Central nervous system, Eyes, Gastrointestinal System, Respiratory system, Skin.

**LD 50 / LC 50:** Please refer to Section 11.

Signs and Symptoms Of Exposure: Overexposure may cause: confusion, dermatitis, headache, drowsiness, dizziness, gastrointestinal

disturbance, optic nerve damage (blindness), nausea, unconsciousness, vomiting, visual

disturbance, weakness. May cause convulsions.

Once methanol is absorbed into the body, it is very slowly eliminated.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Medical Conditions Generally Aggravated By No data available.

Exposure:

2	Composition/	Information on	Ingradiante
J.	Composition	Information on	III GI EUIEI II S

Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases	RTECS #	
1. Methanol	67-56-1	99.94 %	200-659-6	R11-23/24/25-39/23	PC1400000	
				/24/25		
2. AM630	164178-33-0	0.01 %	NA	No phrases apply.	NA	
3. AM694	335161-03-0	0.01 %	NA	No phrases apply.	NA	
4. AM1220	137642-54-7	0.01 %	NA	No phrases apply.	NA	
5. AM1241	444912-48-5	0.01 %	NA	R36/37/38-42/43	PC4960475	
6. AM2201	335161-24-5	0.01 %	NA	No phrases apply.	NA	
7. AM2233	444912-75-8	0.01 %	NA	No phrases apply.	NA	

#### 4. First Aid Measures

**Emergency and First Aid Procedures:** 

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

# 5. Fire Fighting Measures

Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

Flammable Properties and Hazards: 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.

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Hazardous Combustion Products: No data available.

Flash Pt: 11.00 C Method Used: Closed Cup

Autoignition Pt: 385.00 C

**Explosive Limits:** LEL: 6.0% at 25.0 C UEL: 36.0% at 25.0 C

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

Note: Flammable as diluted in methanol.

Accidental Release Measures

**Protective Precautions, Protective**Avoid breathing vapors and provide adequate ventilation.

**Equipment and Emergency Procedures:** As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

Steps To Be Taken In Case Material Is

Contain spill and collect, as appropriate.

Released Or Spilled: Transfer to a chemical waste container for disposal in accordance with local regulations.

7. Handling and Storage

**Precautions To Be Taken in Handling:** Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure. Keep away from sources of ignition.

Take precautionary measures against static discharge.

**Precautions To Be Taken in Storing:** Keep away from heat, sparks, and flame.

Keep container tightly closed.

Store in accordance with information listed on the product insert.

**Hazard Label Information:** Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.

8. Exposure Controls/Personal Protection						
Hazardous Components (Chemical Name)	CAS#	OSHA PEL	ACGIH TWA	Other Limits		
1. Methanol	67-56-1	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.		
2. AM630	164178-33-0	No data.	No data.	No data.		
3. AM694	335161-03-0	No data.	No data.	No data.		
4. AM1220	137642-54-7	No data.	No data.	No data.		
5. AM1241	444912-48-5	No data.	No data.	No data.		
6. AM2201	335161-24-5	No data.	No data.	No data.		
7. AM2233	444912-75-8	No data.	No data.	No data.		
Hazardous Components (Chemical Name)	CAS#	Britain EH40	France VL			
1. Methanol	67-56-1	TWA: 266 mg/m3 (200 ppm) STEL: 333 mg/m3 (250 ppm)	TWA: 260 mg/m3 (200 ppm) STEL: 1300 mg/m3 (1000			
		31 EL. 333 mg/m3 (230 μμm)	ppm)			
2. AM630	164178-33-0	No data.	1 ,			
2. AM630 3. AM694	164178-33-0 335161-03-0	No data.	ppm)			
	<u> </u>	No data.	ppm) No data.			
3. AM694	335161-03-0	No data.  No data.  No data.	ppm) No data. No data.			
3. AM694 4. AM1220	335161-03-0 137642-54-7	No data. No data. No data. No data. No data.	ppm) No data. No data. No data.			

**Protective Equipment Summary - Hazard** 

Label Information:

Compatible chemical-resistant gloves I

Eye wash station in work area Lab coat Safety

glasses Safety shower in work area Vent Hood

Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.



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Revision: 04/25/2012 Series) **Eye Protection:** Safety glasses **Protective Gloves:** Compatible chemical-resistant gloves Other Protective Clothing: Lab coat Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant. Work/Hygienic/Maintenance Practices: Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling. Physical and Chemical Properties Information on Basic Physical and Chemical Properties **Physical States:** [ ] Gas [X] Liquid [ ] Solid Appearance and Odor: Solution **Boiling Point:** No data. **Melting Point:** No data. **Autoignition Pt:** 385.00 C Flash Pt: 11.00 C Method Used: Closed Cup **Explosive Limits:** LEL: 6.0% at 25.0 C UEL: 36.0% at 25.0 C Specific Gravity (Water = 1): No data. Vapor Pressure (vs. Air or mm Hg): 96 MM\_HG at 20.0 C Vapor Density (vs. Air = 1): No data. **Evaporation Rate:** No data. Solubility in Water: No data. Other Information **Percent Volatile:** No data. 10. Stability and Reactivity Stability: Unstable [ Stable [X] Stability Note(s): Stable if stored in accordance with information listed on the product insert. **Conditions To Avoid:** heat, flames and sparks Polymerization: Will occur [ ] Will not occur [X] Incompatibility - Materials To Avoid: acids acid anhydrides acid chlorides alkali metals oxidizing agents reducing agents **Hazardous Decomposition Or Byproducts:** carbon dioxide carbon monoxide 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. **Toxicological Information:** Methanol - Toxicity Data: Oral LD50 (rat): 5,600 mg/kg; Oral LD50 (rabbit): 14,200 mg/kg; Inhalation LC50 (rat): 64,000 ppm (4h); Inhalation LC50 (mouse): 61,100 ppm (134 m); Skin

LD50 (rabbit): 15,800 mg/kg; Oral LDLO (human): 143 mg/kg;

Eyes (rabbit): 100 mg (24h) moderate;

Methanol - Irritation Data: Skin (rabbit): 20 mg (24h) moderate; Eyes (rabbit): 40 mg moderate;



**Chronic Toxicological Effects:** 

### SAFETY DATA SHEET

# Synthetic Cannabinoid HPLC Mixture V (AM

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Methanol - Investigated as a mutagen and reproductive effector.

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Methanol RTECS Number: PC1400000

Hazardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
1. Methanol	67-56-1	n.a.	n.a.	n.a.	n.a.
2. AM630	164178-33-0	n.a.	n.a.	n.a.	n.a.
3. AM694	335161-03-0	n.a.	n.a.	n.a.	n.a.
4. AM1220	137642-54-7	n.a.	n.a.	n.a.	n.a.
5. AM1241	444912-48-5	n.a.	n.a.	n.a.	n.a.
6. AM2201	335161-24-5	n.a.	n.a.	n.a.	n.a.
7. AM2233	444912-75-8	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

**General Ecological Information:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

#### 13. Disposal Considerations

Dispose in accordance with local, state, and federal regulations. **Waste Disposal Method:** 

## 14. Transport Information

#### Globally Harmonized System of Classification and Labelling

Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor

Acute Toxicity: Oral, Category 3 - Danger! Toxic if swallowed Acute Toxicity: Skin, Category 3 - Danger! Toxic in contact with skin Acute Toxicity: Inhalation, Category 3 - Danger! Toxic if inhaled

Target Organ Systemic Toxicity (single exposure), Category 1 - Danger! Causes damage to eyes

#### LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name** Methanol Solution

**DOT Hazard Class:** 3 (6.1)

**DOT Hazard Label:** FLAMMABLE LIQUID, POISON

**UN/NA Number:** 1230 **Packing Group:** 

LAND TRANSPORT (European ADR/RID)

**ADR/RID Shipping Name** Methanol Solution

**UN Number:** 1230

**Hazard Class:** 3 (6.1) - FLAMMABLE LIQUID, POISON

**Packing Group:** II

**AIR TRANSPORT (ICAO/IATA)** 

ICAO/IATA Shipping Name Methanol Solution

**UN Number:** 

**Hazard Class:** 3 (6.1) - FLAMMABLE LIQUID, POISON

**Packing Group:** II **IATA Classification:** 

**Additional Transport Information:** Transport in accordance with local, state, and federal regulations.

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## 15. Regulatory Information

European Community Hazard Symbol codes F: Highly Flammable; T: Toxic

#### **European Community Risk and Safety Phrases**

R11 - Highly flammable.

 $R23/24/25 \quad \hbox{- Toxic by inhalation, in contact with skin and if swallowed.}$ 

R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Keep container tightly closed.

S16 - Keep away from sources of ignition.

S24/25 - Avoid contact with skin and eyes.

S33 - Take precautionary measures against static discharges.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

- In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)

#### **US EPA SARA Title III**

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Methanol	67-56-1	No	Yes 5000 LB	Yes	No
2. AM630	164178-33-0	No	No	No	No
3. AM694	335161-03-0	No	No	No	No
4. AM1220	137642-54-7	No	No	No	No
5. AM1241	444912-48-5	No	No	No	No
6. AM2201	335161-24-5	No	No	No	No
7. AM2233	444912-75-8	No	No	No	No

#### Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Methanol	67-56-1	HAP	No	Inventory	No
2. AM630	164178-33-0	No	No	No	No
3. AM694	335161-03-0	No	No	No	No
4. AM1220	137642-54-7	No	No	No	No
5. AM1241	444912-48-5	No	No	No	No
6. AM2201	335161-24-5	No	No	No	No
7. AM2233	444912-75-8	No	No	No	No

Regulatory Information Statement:

This SDS was prepared in accordance with 29 CFR 1910.1200, Regulation (EC) No.1272/2008, and European Directive 67/548/EEC as amended.

#### 16. Other Information

#### **Company Policy or Disclaimer**

For research use only, not for human or veterinary use.

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required