

Safety Data Sheet acc. to OSHA HCS

Date of issue: 10/30/2024

Revision date 10/30/2024

1 Identification

- **Product identifier**
- **Trade name: Synthetic Cannabinoid Analytical Standards Panel 2**
- **Other means of identification**
- **Article number:** 38769
- **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

Reproductive toxicity 1A

H360 May damage fertility or the unborn child.

Specific target organ toxicity (single exposure) 2

H371 May cause damage to the central nervous system and the visual organs.



GHS07

Acute toxicity - oral 4

H302 Harmful if swallowed.

Acute toxicity - dermal 4

H312 Harmful in contact with skin.

Acute toxicity - inhalation 4

H332 Harmful if inhaled.

Eye irritation 2A

H319 Causes serious eye irritation.

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Sensitization - skin 1

H317 May cause an allergic skin reaction.

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:

Acetonitrile

Methanol

A-834735

5-fluoro JWH 018 adamantyl analog

NNEI

Hazard statements

H225 Highly flammable liquid and vapor.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

H371 May cause damage to the central nervous system and the visual organs.

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, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

P233 Keep container tightly closed.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharge.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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 [or 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.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P337+P313 If eye irritation persists: Get medical advice/attention.

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P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
 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.

- **Information pertaining to particular dangers for man and environment:**
- **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.
- **Classification according to (d)(1)(ii) of § 1910.12000**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

- **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 75-05-8 RTECS: AL7700000	Acetonitrile	70.9125%
CAS: 67-56-1 RTECS: PC1400000	Methanol	8.3875%
CAS: 895155-57-4	A-834735	0.1%
CAS: 1338925-11-3	NNEI	0.1%
CAS: 1364933-62-9	5-fluoro JWH 018 adamantyl analog	0.1%

· **Other ingredients**

CAS: 2460433-24-1	AB-FUBINACA metabolite 2A	0.1%
CAS: 50264-63-6 RTECS: NK7886400	AB-FUBINACA metabolite 4	0.1%
CAS: 80749-33-3	1'-Naphthoyl-2-methylindole	0.1%
CAS: 210179-44-5	JWH 080	0.1%
CAS: 226883-79-0	FUB-PB-22 3-carboxyindole metabolite	0.1%
CAS: 335160-94-6	AM694 N-(5-hydroxypentyl) metabolite	0.1%
CAS: 501926-82-5	MN-25	0.1%

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CAS: 501927-29-3	MN-25-2-methyl derivative	0.1%
CAS: 695213-59-3	SDB-006	0.1%
CAS: 727421-73-0	PB-22 3-carboxyindole metabolite	0.1%
CAS: 858515-71-6	BB-22 3-carboxyindole metabolite	0.1%
CAS: 858515-82-9	methyl-1-(cyclohexylmethyl)-1H-indole-3-Carboxylate	0.1%
CAS: 895152-66-6	(1H-Indol-3-yl)(2,2,3,3-tetramethylcyclopropyl)methanone	0.1%
CAS: 895155-78-9	XLR12	0.1%
CAS: 914458-21-2	JWH 146	0.1%
CAS: 959746-77-1	A-836339	0.1%
CAS: 1185282-01-2	AB-FUBINACA	0.1%
CAS: 1185282-03-4	APP-FUBINACA	0.1%
CAS: 1185282-19-2	AB-FUBINACA 3-fluorobenzyl isomer	0.1%
CAS: 1185887-14-2	APP-CHMINACA	0.1%
CAS: 1185887-21-1	AB-CHMINACA	0.1%
CAS: 1185887-51-7	AB-CHMINACA metabolite M2	0.1%
CAS: 1185889-12-6	MAB-CHMINACA metabolite M2	0.1%
CAS: 1271630-11-5	AB-CHMINACA metabolite M4	0.1%
CAS: 1338925-20-4	methyl-1-pentyl-1H-indole-3-Carboxylate	0.1%
CAS: 1364933-59-4	JWH 412	0.1%
CAS: 1373876-34-6	JWH 081-N-(cyclohexylmethyl) analog	0.1%
CAS: 1391484-80-2	MN-18	0.1%
CAS: 1391485-39-4	F2201	0.1%
CAS: 1400742-16-6	5-fluoro CUMYL-PINACA	0.1%
CAS: 1400742-32-6	CUMYL-PICA	0.1%
CAS: 1400742-41-7	5-fluoro PB-22	0.1%
CAS: 1400742-42-8	BB-22	0.1%
CAS: 1400742-46-2	PTI-1 (hydrochloride)	0.1%
CAS: 1400742-48-4	ATHPINACA isomer 1	0.1%
CAS: 1432794-98-3	5-fluoro PB-22 3-carboxyindole metabolite	0.1%
CAS: 1443988-18-8	RCS-4 4-hydroxyphenyl metabolite	0.1%
CAS: 1445579-61-2	NPB-22	0.1%
CAS: 1445579-79-2	5-fluoro NPB-22	0.1%
CAS: 1445580-60-8	5-fluoro NNEI	0.1%
CAS: 1445581-91-8	5-fluoro MN-18	0.1%
CAS: 1445583-51-6	ADB-FUBINACA	0.1%
CAS: 1445752-09-9	AB-PINACA	0.1%
CAS: 1449675-70-0	JWH 203 N-pentanoic acid metabolite	0.1%
CAS: 1451369-32-6	JWH 018 N-propanoic acid metabolite	0.1%
CAS: 1616469-06-7	UR-144 N-heptyl analog	0.1%
CAS: 1630022-94-4	AKB48 N-pentanoic acid metabolite	0.1%
CAS: 1630022-95-5	PB-22 N-pentanoic acid-3-carboxyindole metabolite	0.1%
CAS: 1630022-98-8	XLR11 6-hydroxyindole metabolite	0.1%
CAS: 1631074-54-8	4-cyano CUMYL-BUTINACA	0.1%
CAS: 1633766-73-0	ADB-PINACA	0.1%

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CAS: 1776086-02-2	5-fluoro SDB-006	0.1%
CAS: 1797132-65-0	5-fluoro PB-22 4-hydroxyquinoline isomer	0.1%
CAS: 1797883-78-3	5-fluoro NNEI 2'-naphthyl isomer	0.1%
CAS: 1800098-36-5	FUB-PB-22	0.1%
CAS: 1800101-60-3	5-fluoro AB-PINACA	0.1%
CAS: 1801338-22-6	AB-FUBICA	0.1%
CAS: 1801338-26-0	5-fluoro ABICA	0.1%
CAS: 1801552-01-1	THJ2201	0.1%
CAS: 1801552-02-2	5-chloro AB-PINACA	0.1%
CAS: 1801552-03-3	5-fluoro AMB	0.1%
CAS: 1850409-16-3	THJ2201 N-(5-hydroxypentyl) metabolite	0.1%
CAS: 1850409-18-5	THJ2201 N-pentanoic acid metabolite	0.1%
CAS: 1863065-82-0	5-fluoro ADBICA	0.1%
CAS: 1863065-90-0	5-fluoro ADB-PINACA	0.1%
CAS: 1863065-92-2	MAB-CHMINACA	0.1%
CAS: 1869980-05-1	JWH 073 6-methoxyindole analog	0.1%
CAS: 1877243-60-1	AB-FUBINACA metabolite 3	0.1%
CAS: 1879029-93-2	AB-PINACA N-pentanoic acid metabolite	0.1%
CAS: 1883284-94-3	FDU-PB-22	0.1%
CAS: 1884343-30-9	PB-22 N-(5-hydroxypentyl) metabolite	0.1%
CAS: 1885091-23-5	PB-22 5-hydroxyquinoline isomer	0.1%
CAS: 1890250-13-1	AMB	0.1%
CAS: 1890250-14-2	5-fluoro AMB metabolite 2	0.1%
CAS: 1890250-19-7	5-fluoro AMB metabolite 7	0.1%
CAS: 1890250-21-1	5-fluoro AMB metabolite 3	0.1%
CAS: 1969261-68-4	5-fluoro-3,5-ADB-PFUPPYCA	0.1%
CAS: 1971007-87-0	MMB2201	0.1%
CAS: 1971007-88-1	5-fluoro MDMB-PICA	0.1%
CAS: 1971007-90-5	MMB-FUBICA	0.1%
CAS: 1971007-91-6	MDMB-FUBICA	0.1%
CAS: 1971007-92-7	MMB-FUBINACA	0.1%
CAS: 1971007-93-8	MDMB-FUBINACA	0.1%
CAS: 1971007-95-0	MDMB-CHMICA	0.1%
CAS: 1971007-97-2	MMB018	0.1%
CAS: 1984789-90-3	FUBIMINA	0.1%
CAS: 2071636-79-6	PB-22 N-(4-hydroxypentyl) metabolite	0.1%
CAS: 2130879-94-4	MAB-CHMINACA metabolite M3	0.1%
CAS: 2131173-54-9	AB-CHMINACA metabolite M1B	0.1%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

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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:** Immediately call a 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:**

CO₂, 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:**

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.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

75-05-8	Acetonitrile	13 ppm
67-56-1	Methanol	530 ppm
79-20-9	Methyl acetate	250 ppm

- **PAC-2:**

75-05-8	Acetonitrile	50 ppm
67-56-1	Methanol	2,100 ppm
79-20-9	Methyl acetate	1,700 ppm

- **PAC-3:**

75-05-8	Acetonitrile	150 ppm
67-56-1	Methanol	7200* ppm
79-20-9	Methyl acetate	10000* ppm

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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.

7 Handling and storage

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

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.

75-05-8 Acetonitrile

PEL	Long-term value: 70 mg/m ³ , 40 ppm
REL	Long-term value: 34 mg/m ³ , 20 ppm
TLV	Long-term value: 20 ppm Skin, A4

67-56-1 Methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc

Ingredients with biological limit values:

67-56-1 Methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **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.
- **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 chemical properties**
- **General Information**
- **Physical state** Fluid
- **Color:** According to product specification
- **Odor:** Characteristic
- **Storage Buffer**
- **Odor threshold:** Not determined.
- **Formulation**
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 64.7 °C (148.5 °F)
- **Flammability:** Highly flammable.

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· Explosion limits:	
· Lower:	4.4 Vol %
· Upper:	16 Vol %
· Flash point:	2 °C (35.6 °F)
· Auto igniting:	455 °C (851 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
· SOLUBILITY	
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	98.6 hPa (74 mm Hg)
· Vapor pressure at 50 °C (122 °F):	330 hPa (247.5 mm Hg)
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Particle characteristics	Not applicable.
· Other information	
· Appearance:	
· Form:	Liquid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Solvent content:	
· Organic solvents:	9.8 %
· VOC content:	9.57 %
	95.7 g/l / 0.80 lb/gal
· Solids content:	17.0 %
· Change in condition	
· Evaporation rate	Not determined.

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.

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11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	465 mg/kg
Dermal	LD50	1,241 mg/kg (rabbit)
Inhalative	LC50/4 h	10.3 mg/l

75-05-8 Acetonitrile

Oral	LD50	617 mg/kg (mouse) (OECD Test Guideline 401)
Dermal	LD50	1,500 mg/kg (rabbit) (Expert Judgement) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Inhalative	LC50/4 h	6.022 mg/l (mouse) (OECD Test Guideline 403)

67-56-1 Methanol

Oral	LD50	100.1 mg/kg (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Symptoms: Nausea, Vomiting
Dermal	LD50	300.1 mg/kg (rabbit) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Inhalative	LC50/4 h	3.1 mg/l (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Symptoms: Irritation symptoms in the respiratory tract.

· Primary irritant effect:

· on the skin: No irritant effect.

· 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:

Harmful

Irritant

· Interactive effects No interactive effects between components are known.

· 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.

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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects**
- **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.

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

- | | |
|----------------------------------|--|
| · UN-Number | UN1993 |
| · DOT, IMDG, IATA | |
| · UN proper shipping name | Flammable liquids, n.o.s. (Acetonitrile, Methanol) |
| · DOT | FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Methanol) |
| · IMDG | |
| · IATA | Flammable liquid, n.o.s. (ACETONITRILE, Methanol) |

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· 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.

· 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.

· Special precautions for user

Warning: Flammable liquids

· Hazard identification number (Kemler code): 33

· EMS Number:

F-E,S-E

· Stowage Category

B

· UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S.
(ACETONITRILE, METHANOL), 3, II

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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):**

75-05-8 Acetonitrile

67-56-1 Methanol

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

75-05-8 Acetonitrile

ACTIVE

67-56-1 Methanol

ACTIVE

79-20-9 Methyl acetate

ACTIVE

- **Hazardous Air Pollutants**

75-05-8 Acetonitrile

67-56-1 Methanol

- **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:**

67-56-1 Methanol

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

75-05-8 Acetonitrile

CBD, D

- **TLV (Threshold Limit Value)**

75-05-8 Acetonitrile

A4

- **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:** -

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Safety Data Sheet

acc. to OSHA HCS

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- **Date of previous version** 10/30/2024
- **Date of preparation** 10/30/2024
- **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
 - Acute toxicity - oral 4: Acute toxicity – Category 4
 - Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
 - Sensitization - skin 1: Skin sensitisation – Category 1
 - Reproductive toxicity 1A: Reproductive toxicity – Category 1A
 - Specific target organ toxicity (single exposure) 2: Specific target organ toxicity (single exposure) – Category 2
- *** Data compared to the previous version altered.**

US