

Printing date 10/17/2022

Revision date 10/17/2022

Page 1/11

## **1** Identification

- · Product identifier
- Trade name: MAB-CHMINACA metabolite M1 (CRM)
- Article number: 18182
- **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

Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS06 Skull and crossbones	
Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
Acute Toxicity - Inhalation 3	H331 Toxic if inhaled.
GHS08 Health hazard	

Printing date 10/17/2022

Revision date 10/17/2022

# Trade name: MAB-CHMINACA metabolite M1 (CRM)

	(Contd. from page 1)			
· Label elements				
GHS label elem				
· Hazard pictogra	assified and labeled according to the Globally Harmonized System (GHS). I <b>ms</b>			
GHS02 GHS0				
· Signal word Danger				
<ul> <li>Hazard-determine</li> <li>Methanol</li> </ul>	ning components of labeling:			
· Hazard stateme	nts			
H225	Highly flammable liquid and vapor.			
	31 Toxic if swallowed, in contact with skin or if inhaled.			
H370	Causes damage to the central nervous system and the visual organs.			
<ul> <li>Precautionary s</li> </ul>				
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.			
P270	Do not eat, drink or smoke when using this product.			
P271	Use only outdoors or in a well-ventilated area.			
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
P301+P310	If swallowed: Immediately call a poison center/doctor.			
P321 P330	Specific treatment (see on this label). Rinse mouth.			
	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with			
1 303 11 301 11 30	water/shower.			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.			
P312	Call a poison center/doctor if you feel unwell.			
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.			
P370+P378	In case of fire: Use CO2, 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 s				
· NFPA ratings (s	icale U - 4)			
Hea	alth = 0			
	activity = 0			
· HMIS-ratings (scale 0 - 4)				
	-			
	ealth = *0			
	e = 3			
	eactivity = 0			
	(Contd. on page 3)			

US

Printing date 10/17/2022

Revision date 10/17/2022

(Contd. from page 2)

99.9%

0.1%

### Trade name: MAB-CHMINACA metabolite M1 (CRM)

- · 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: 67-56-1 Methanol

RTECS: PC1400000

Other ingredients

2460433-30-9 MAB-CHMINACA metabolite M1

### **4 First-aid measures**

### · Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

### · After inhalation:

Supply fresh air or oxygen; call for 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. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- · 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

67-56-1During heating or in case of fire poisonous gases are produced.

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

(Contd. on page 4)

Printing date 10/17/2022

### Revision date 10/17/2022

# Trade name: MAB-CHMINACA metabolite M1 (CRM)

(Contd. from page 3)

	(conta: nom page (
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:	1
Absorb with liquid-binding material (sand, diatomite, acid binders, universal bin Dispose contaminated material as waste according to item 13.	iders, sawdust).
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. • <b>Protective Action Criteria for Chemicals</b>	
Protective Action Criteria for Chemicals	
67-56-1 Methanol	530 ppm
• PAC-2:	<b>FF</b>
67-56-1 Methanol	2,100 ppm
PAC-3:	
67-56-1 Methanol	7200* ppm
' 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 lo	cation.
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.	
• <b>Specific end use(s)</b> No further relevant information available.	
Exposure controls/personal protection	

• Additional information about design of technical systems: No further data; see item 7. (Contd. on page 5)

Printing date 10/17/2022

Revision date 10/17/2022

### Trade name: MAB-CHMINACA metabolite M1 (CRM)

(Contd. from page 4) Control parameters · Components with limit values that require monitoring at the workplace: 67-56-1 Methanol PEL Long-term value: 260 mg/m<sup>3</sup>, 200 ppm REL Short-term value: 325 mg/m<sup>3</sup>. 250 ppm Long-term value: 260 mg/m<sup>3</sup>, 200 ppm Skin Short-term value: 250 ppm TLV Long-term value: 200 ppm Skin; BEI · Ingredients with biological limit values: 67-56-1 Methanol BEI 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific) · 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 · 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.

(Contd. on page 6)

US

Printing date 10/17/2022

Revision date 10/17/2022

(Contd. from page 5)

### Trade name: MAB-CHMINACA metabolite M1 (CRM)

• Eye protection:



Tightly sealed goggles

#### 9 Physical and chemical properties · Information on basic physical and chemical properties General Information · Appearance: Form: Liquid Color: Colorless · Odor: Alcohol-like · Structural Formula C21H30N4O3 · Molecular Weight 386.5 g/mol · Odor threshold: Not determined. · Formulation A 1 mg/ml solution in methanol · pH-value: Not determined. · Change in condition Melting point/Melting range: -98 °C (-144.4 °F) **Boiling point/Boiling range:** 64.7 °C (148.5 °F) · Flash point: 11 °C (51.8 °F) · Flammability (solid, gaseous): Highly flammable. 455 °C (851 °F) · Ignition temperature: 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. · Explosion limits: 5.5 Vol % Lower: 44 Vol % Upper: · Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg) Density at 20 °C (68 °F): 0.79 g/cm3 (6.59255 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/water): Not determined. · Viscositv: **Dynamic:** Not determined. **Kinematic:** Not determined. (Contd. on page 7)

Printing date 10/17/2022

### Revision date 10/17/2022

Trade name: MAB-CHMINACA metabolite M1 (CRM)

	(Contd. from page 6)
<ul> <li>Solvent content: Organic solvents: VOC content:</li> </ul>	99.9 % 99.90 % 789.2 g/l / 6.59 lb/gal
Solids content:	0.1 %
· 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: reducing agents, oxidizing agents
- · Hazardous decomposition products: carbon monoxide, carbon dioxide

## **11 Toxicological information**

· Information on toxicological effects

### • Acute toxicity:

LD/LC50 values that are relevant for classification:		
67-56-1 Methan	ol	
Oral	LDLO	143 mg/kg (hmn)
	TDLO	5 ml/kg (rat)
	LD50	5,600 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
Inhalative	LC50/4 h	64,000 mg/m³ (rat)
	LC50	61,100 mg/m³/134 m (mouse)
Irritation of skin	Irritation	20 mg/24h (rabbit)
	Irritation	(rabbit)
	Irritation	5.63 mg/kg/exempt preparation (rabbit)
Irritation of eyes	Irritation	40 mg (rabbit)
	Intraperitoneal TDLO	5 mg/kg (rat)
	Intraperitoneal LD50	10,765 mg/kg (mouse)
	Subcutaneous LD50	143 mg/kg/human (mouse)
	Data	20 mg/24h (rabbit)

• Primary irritant effect:

· on the skin: No irritant effect.

· on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

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

(Contd. on page 8)

US

Printing date 10/17/2022

Revision date 10/17/2022

(Contd. from page 7)

### Trade name: MAB-CHMINACA metabolite M1 (CRM)

Toxic

· 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)

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.
- · 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.

- · 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.

UN-Number		
DOT, IMDG, IATA	UN1230	
UN proper shipping name		
DOT, IATA	Methanol solution	
IMDG	METHANOL solution	

Printing date 10/17/2022

Revision date 10/17/2022

# Trade name: MAB-CHMINACA metabolite M1 (CRM)

	(Contd. from page
Transport hazard class(es)	
DOT	
6	
Class Label	3 Flammable liquids 3, 6.1
IMDG	3, 0.1
3 6	
Class	3 Flammable liquids
Label	3/6.1
ΙΑΤΑ	
3	
Class	3 Flammable liquids
Label	3 (6.1)
Packing group	
DOT, IMDG, IATA Environmental hazards:	 Not applicable
	Not applicable.
Special precautions for user Hazard identification number (Kemler code):	Warning: Flammable liquids 336
EMS Number:	F-E,S-D
Stowage Category	B SW/2 Clear of living guarters
Stowage Code	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
באסטינים קומוונונים (בעו	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Remarks:	When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of
	E1, E2, E4, or E5, this item meets the De Minim
	Quantities exemption, per IATA 2.6.10.
	(Contd. on page

Printing date 10/17/2022

Revision date 10/17/2022

### Trade name: MAB-CHMINACA metabolite M1 (CRM)

	(Contd. from page 9)	
	Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.	
· UN "Model Regulation":	UN 1230 METHANOL SOLUTION, 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	
<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
67-56-1 Methanol	
· TSCA (Toxic Substances Control Act):	
67-56-1 Methanol	ACTIVE
· Hazardous Air Pollutants	
67-56-1 Methanol	
· 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:	
67-56-1 Methanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
· 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.

(Contd. on page 11)

US

Printing date 10/17/2022

Revision date 10/17/2022

# Trade name: MAB-CHMINACA metabolite M1 (CRM)

	(Contd. from page 10)
Department issuing SDS: Environment protection department.	
Contact: -	
Date of preparation / last revision 10/17/2022	
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	
BEI: Biological Exposure Limit	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 3: Acute toxicity – Category 3	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) - Cate	egory 1