

Printing date 11/15/2022

Revision date 11/15/2022

Page 1/11

### **1** Identification

- · Product identifier
- · Trade name: <u>3,4-MDMA-d5 (hydrochloride) (CRM)</u>
- · Article number: 20743
- **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

$\mathbf{V}$	
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	
Specific Target Organ Toxicity - Single Exposure	1 H370 Causes damage to the central nervou system and the visual organs.

Printing date 11/15/2022

Revision date 11/15/2022

### Trade name: 3,4-MDMA-d5 (hydrochloride) (CRM)

	(Contd. from page 1)				
· Label elements					
GHS label eleme					
I he product is classified of the product	assified and labeled according to the Globally Harmonized System (GHS). I <b>ms</b>				
$\wedge$					
GHS02 GHS00	6 GHS08				
· <b>Signal word</b> Dar	nger				
<ul> <li>Hazard-determin</li> <li>Methanol</li> </ul>	ning components of labeling:				
<ul> <li>Hazard stateme</li> </ul>	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.				
• Precautionary s					
P210 P240	Keep away from heat/sparks/open flames/hot surfaces No smoking. Ground/bond container and receiving equipment.				
P240 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	Specific treatment (see on this label).				
P330	Rinse mouth.				
P303+P361+P35	33 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.				
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				
Classification	regulations.				
	<ul> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> </ul>				
NI FA Taunys (S	cale 0 - 4)				
Hea	alth = 0				
	e = 3				
0 Reactivity = 0					
HMIS-ratings (s	· HMIS-ratings (scale 0 - 4)				
HEALTH <sup>*0</sup> He	ealth = *0				
	e = 3				
	e = 3 eactivity = 0				
REACTIVITY 0 Re	-				
	(Contd. on page 3)				

US

Printing date 11/15/2022

Revision date 11/15/2022

(Contd. from page 2)

99.99%

0.01%

#### Trade name: 3,4-MDMA-d5 (hydrochloride) (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

3,4-MDMA-d5 (hydrochloride)

### **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 11/15/2022

### Revision date 11/15/2022

### Trade name: 3,4-MDMA-d5 (hydrochloride) (CRM)

(Contd. from page 3)

6 Accidental release measures	
<ul> <li>Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.</li> <li>Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.</li> <li>Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, s Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.</li> <li>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.</li> <li>Protective Action Criteria for Chemicals</li> </ul>	sawdust).
· PAC-1:	
67-56-1 Methanol	530 ppm
· PAC-2:	
67-56-1 Methanol	2,100 ppm
PAC-3:	
67-56-1 Methanol	7200* ppm
<ul> <li>7 Handling and storage</li> <li>Handling:</li> <li>Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.</li> <li>Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.</li> <li>Conditions for safe storage, including any incompatibilities</li> </ul>	
<ul> <li>Storage: Store in accordance with information listed on the product insert.</li> <li>Requirements to be met by storerooms and receptacles: Store in a cool location.</li> <li>Information about storage in one common storage facility: Not required.</li> <li>Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.</li> <li>Specific end use(s) No further relevant information available.</li> </ul>	
8 Exposure controls/personal protection	

• Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 5)

Printing date 11/15/2022

Revision date 11/15/2022

### Trade name: 3,4-MDMA-d5 (hydrochloride) (CRM)

(Contd. from page 4)

	ponents with limit values that require monitoring at the workplace: 6-1 Methanol
	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
	Short-term value: 325 mg/m³, 250 ppm
REL	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
	Skin
TLV	Short-term value: 250 ppm
	Long-term value: 200 ppm
	Skin; BEI
ngr	edients with biological limit values:
67-5	6-1 Methanol
	15 mg/L
	Medium: urine
	Time: end of shift Parameter: Methanol (background, nonspecific)
	tional information: The lists that were valid during the creation were used as basis.
Keep Imm Was	eral protective and hygienic measures: a way from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. e protective clothing separately.
Keep Imm Was Store Avoid <b>Brea</b> In ca	away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing.
Keep Imm Was Store Avoid <b>Brea</b> In ca	away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. In hands before breaks and at the end of work. The protective clothing separately. In contact with the eyes and skin. Thing equipment: This equipment: The se of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air.
Keep Imm Was Store Avoid Brea In ca expo Prot	<ul> <li>away from foodstuffs, beverages and feed.</li> <li>ediately remove all soiled and contaminated clothing.</li> <li>h hands before breaks and at the end of work.</li> <li>e protective clothing separately.</li> <li>d contact with the eyes and skin.</li> <li>thing equipment:</li> <li>use of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air.</li> <li>ection of hands:</li> <li>Protective gloves</li> <li>glove material has to be impermeable and resistant to the product/ the substance/ the preparation</li> </ul>
Keep Imm Was Store Avoid Brea In ca expo Prot The Due	<ul> <li>away from foodstuffs, beverages and feed.</li> <li>ediately remove all soiled and contaminated clothing.</li> <li>h hands before breaks and at the end of work.</li> <li>e protective clothing separately.</li> <li>d contact with the eyes and skin.</li> <li>thing equipment:</li> <li>use of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air.</li> <li>ection of hands:</li> <li>Protective gloves</li> <li>glove material has to be impermeable and resistant to the product/ the substance/ the preparation to the glove material can be given for the product/ the</li> </ul>
Keep Imm Was Store Avoid Brea In ca expo Prot The Due prep	<ul> <li>away from foodstuffs, beverages and feed.</li> <li>ediately remove all soiled and contaminated clothing.</li> <li>h hands before breaks and at the end of work.</li> <li>e protective clothing separately.</li> <li>d contact with the eyes and skin.</li> <li>thing equipment:</li> <li>use of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air.</li> <li>ection of hands:</li> <li>Protective gloves</li> <li>glove material has to be impermeable and resistant to the product/ the substance/ the preparation to the glove material can be given for the product/ the aration/ the chemical mixture.</li> </ul>
Keep Imm Was Store Avoin Brea In ca expc Prot The Due prep Sele	<ul> <li>away from foodstuffs, beverages and feed.</li> <li>ediately remove all soiled and contaminated clothing.</li> <li>h hands before breaks and at the end of work.</li> <li>e protective clothing separately.</li> <li>d contact with the eyes and skin.</li> <li>thing equipment:</li> <li>use of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air.</li> <li>ection of hands:</li> <li>Protective gloves</li> <li>glove material has to be impermeable and resistant to the product/ the substance/ the preparation to the glove material can be given for the product/ the</li> </ul>
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Keep Imm Vas Store Avoid Brea In ca expo Prot The Due prep Sele degr Mate The	<ul> <li>away from foodstuffs, beverages and feed.</li> <li>ediately remove all soiled and contaminated clothing.</li> <li>h hands before breaks and at the end of work.</li> <li>a protective clothing separately.</li> <li>d contact with the eyes and skin.</li> <li>thing equipment:</li> <li>use of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air.</li> <li>ection of hands:</li> <li>Protective gloves</li> <li>glove material has to be impermeable and resistant to the product/ the substance/ the preparation to missing tests no recommendation to the glove material can be given for the product/ taration/ the chemical mixture.</li> <li>ction of the glove material on consideration of the penetration times, rates of diffusion and t tadation</li> <li>arial of gloves</li> </ul>
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Keep Imm Was Store Avoid Brea In ca expo Prot The Due prep Sele degr Mate The qual subs	<ul> <li>away from foodstuffs, beverages and feed.</li> <li>ediately remove all soiled and contaminated clothing.</li> <li>h hands before breaks and at the end of work.</li> <li>a protective clothing separately.</li> <li>d contact with the eyes and skin.</li> <li>thing equipment:</li> <li>use of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air.</li> <li>ection of hands:</li> <li>Protective gloves</li> <li>glove material has to be impermeable and resistant to the product/ the substance/ the preparation to missing tests no recommendation to the glove material can be given for the product/ tratation/ the chemical mixture.</li> <li>ction of the glove material on consideration of the penetration times, rates of diffusion and tratation</li> <li>erial of gloves</li> </ul>

**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 11/15/2022

Revision date 11/15/2022

(Contd. from page 5)

### Trade name: 3,4-MDMA-d5 (hydrochloride) (CRM)

· Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties • Information on basic physical and chemical properties • General Information

<ul> <li>Appearance: Form: Color: Odor: Structural Formula Molecular Weight Odor threshold:     </li> </ul>	Liquid According to product specification Alcohol-like C11H10D5NO2 • HCI 234.7 g/mol Not determined.
· Formulation	A 100 μg/ml or 1 mg/ml solution in methanol
· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	-98 °C (-144.4 °F) 64.7 °C (148.5 °F)
· Flash point:	11 °C (51.8 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Ignition temperature:	455 °C (851 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive ai vapor mixtures are possible.
· Explosion limits: Lower: Upper:	5.5 Vol % 44 Vol %
<sup>.</sup> Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
<ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	0.79 g/cm³ (6.59255 lbs/gal) Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Fully miscible.
· Partition coefficient (n-octanol/water)	: Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
	(Contd. on page

US

Printing date 11/15/2022

#### Revision date 11/15/2022

Trade name: 3,4-MDMA-d5 (hydrochloride) (CRM)

	(Contd. from page 6)
<ul> <li>Solvent content: Organic solvents: VOC content:</li> </ul>	100.0 % 99.99 % 999.9 g/l / 8.34 lb/gal
Solids content:	0.0 %
· 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: 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 Methanol				
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:				

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 11/15/2022

Revision date 11/15/2022

(Contd. from page 7)

### Trade name: 3,4-MDMA-d5 (hydrochloride) (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	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Methanol)
·IMDG	FLAMMABLE LIQUID, N.Ò.S. (METHANOL)
· IATA	Flammable liquid, n.o.s. (METHANOL)

Printing date 11/15/2022

Revision date 11/15/2022

## Trade name: 3,4-MDMA-d5 (hydrochloride) (CRM)

	(Contd. from page
Transport hazard class(es)	
DOT	
RAMMABLE LIQUD	
3	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler co	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
ΙΑΤΑ	
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.
	Therefore packaging does not have to be labeled
	Dangerous Goods/Excepted Quantity.
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOI
	3, II

(Contd. on page 10)

Revision date 11/15/2022

### Trade name: 3,4-MDMA-d5 (hydrochloride) (CRM)

Printing date 11/15/2022

(Contd. from page 9)

Regulatory information	
Safety, health and environmental regulations/legislation specific for the substa No further relevant information available. Sara	ance or mixture
Section 355 (extremely hazardous substances):	
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.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of preparation / last revision 11/15/2022
- **Abbreviations and acronyms:** IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

Printing date 11/15/2022

Revision date 11/15/2022

### Trade name: 3,4-MDMA-d5 (hydrochloride) (CRM)

	(Contd. from page 10)
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	gory 1
	US