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Safety Data Sheet acc. to OSHA HCS

Printing date 11/17/2023

Revision date 11/17/2023

· Product identifier	
• Trade name: <u>N-Methyl</u> • Synonym (1R,5S)-1,2,3,4,5,6-hex Caulophylline N-Me-cy	c <u>ytisine</u> ahydro-3-methyl-1,5-methano-8H-pyrido[1,2-a][1,5]diazocin-8-one
 Article number: 34752 CAS Number: 486-86-2 EC number: 207-643-8 Application of the sub This product is for research 	stance / the mixture ırch use - Not for human or veterinary diagnostic or therapeutic use.
• Manufacturer/Supplier Cayman Chemical Co. 1180 E. Ellsworth Rd.	of the safety data sheet :
Ann Arbor, MI 48108 USA	
USA • Information department • Emergency telephone During normal opening to US/CANADA: 800-424-5	imes: +1 (734) 971-3335 9300
USA Information department Emergency telephone During normal opening to 	number: imes: +1 (734) 971-3335 9300
USA • Information departmen • Emergency telephone During normal opening f US/CANADA: 800-424-9 Outside US/CANADA: 7	number: imes: +1 (734) 971-3335 9300 03-741-5970
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USA • Information departmen • Emergency telephone During normal opening f US/CANADA: 800-424-9 Outside US/CANADA: 7 • Hazard(s) identific	number: imes: +1 (734) 971-3335 9300 03-741-5970 ation
USA • Information departmen • Emergency telephone During normal opening for US/CANADA: 800-424-5 Outside US/CANADA: 7 • Classification of the second	number: imes: +1 (734) 971-3335 9300 03-741-5970 ation
USA • Information departmen • Emergency telephone During normal opening for US/CANADA: 800-424-5 Outside US/CANADA: 7 • Classification of the set GHS07	number: imes: +1 (734) 971-3335 9300 03-741-5970 ation ubstance or mixture H302 Harmful if swallowed.
USA • Information department • Emergency telephone During normal opening in US/CANADA: 800-424-4 Outside US/CANADA: 7 • Classification of the set • Classification of the set • GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal	number: imes: +1 (734) 971-3335 9300 03-741-5970 ation ubstance or mixture H302 Harmful if swallowed.
USA • Information departmen • Emergency telephone During normal opening in US/CANADA: 800-424-9 Outside US/CANADA: 7 • Classification of the set • Classification of the set • GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal	number: imes: +1 (734) 971-3335 9300 03-741-5970 ation ubstance or mixture H302 Harmful if swallowed. 4 H312 Harmful in contact with skin.

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Trade name: N-Methylcytisine



- · Chemical characterization: Substances
- · CAS No. Description
- 486-86-2 N-Methylcytisine
- Identification number(s)
- **EC number:** 207-643-8

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4 First-aid measures

· Description of first aid measures

· General information:

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Immediately call a doctor.
- · 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: Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: 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: Substance is not listed.
- · PAC-2: Substance is not listed.
- **PAC-3:** Substance is not listed.

7 Handling and storage

· Handling:

• **Precautions for safe handling** Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires: No special measures required.

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- · 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- 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: Not required.
- Additional information: The lists that were valid during the creation were used as basis.

• Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:

Wash hands before breaks and at the end of work.

- 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.

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: Not required.

Information on basic physica General Information	al and chemical properties	
Appearance:		
Form:	Solid	
Color:	Not determined.	
Odor:	Characteristic	
Structural Formula	C12H16N2O	
Molecular Weight	204.3 g/mol	

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Odor threshold:	Not determined.
· pH-value:	Not applicable.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.
Vapor pressure:	Not applicable.
Density: Relative density Vapor density Evaporation rate	Not determined. Not determined. Not applicable. Not applicable.
Solubility in / Miscibility with Water:	Not determined.
Partition coefficient (n-octanol/wa	ater): Not determined.
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
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: strong oxidizing agents
- Hazardous decomposition products: carbon oxides, nitrogen oxides

11 Toxicological information

• RTECS Number DMF: 20 mg/ml; DMSO: 15 mg/ml; Ethanol: 30 mg/ml; PBS (pH 7.2): 10 mg/ml

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· LD/LC Oral L · Prima · on the · on the · Sensin · Additi	_D50	e relevant for classifi 511 mg/kg (mouse) 51 mg/kg (mouse)			
Oral L Prima on the Sensit Additi	_D50 ntraperitoneal LD5 ry irritant effect:	511 mg/kg (mouse)			
· Prima · on the · on the · Sensit · Additi	ntraperitoneal LD5 ry irritant effect:				
 Prima on the on the Sensiti Additi 	ry irritant effect:				
· on the · Sensit · Additi	skin: No irritant				
· Carcir	e eye: No irritating	effect. zing effects known.			
· NTP (National Toxicolo	s ncy for Research on gy Program) Substan I Safety & Health Ad	ce is not listed.		
2 Ecol	ogical informa	ion			
 Behav Bioac Mobili Additi Gener Water Do no system Result PBT: 1 vPvB: 	vior in environme cumulative poten ity in soil No furth onal ecological in ral notes: hazard class 1 (Si t allow undiluted p n. ts of PBT and vP Not applicable.	t ial No further relevan er relevant information formation: elf-assessment): slight oduct or large quanti	t information avail available. ly hazardous for v iies of it to reach	able.	ourse or sew
3 Disp	osal considera	tions			
Recor	•		ehold garbage. E	o not allow product	to reach sew
	aned packagings nmendation: Disp	osal must be made ac	cording to official	regulations.	
4 Tran	sport informat	on			
· UN-Nu	umber IMDG, IATA		ot regulated		

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Trade name: N-Methylcytisine

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 UN proper shipping name DOT, IMDG, IATA 	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	not regulated	
 Packing group DOT, IMDG, IATA 	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
 Transport in bulk according to Anne MARPOL73/78 and the IBC Code 	x II of Not applicable.	
UN "Model Regulation":	not regulated	

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): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not 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 11/17/2023

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US

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 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	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
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	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
** Data compared to the previous version altered.	