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Safety Data Sheet acc. to OSHA HCS

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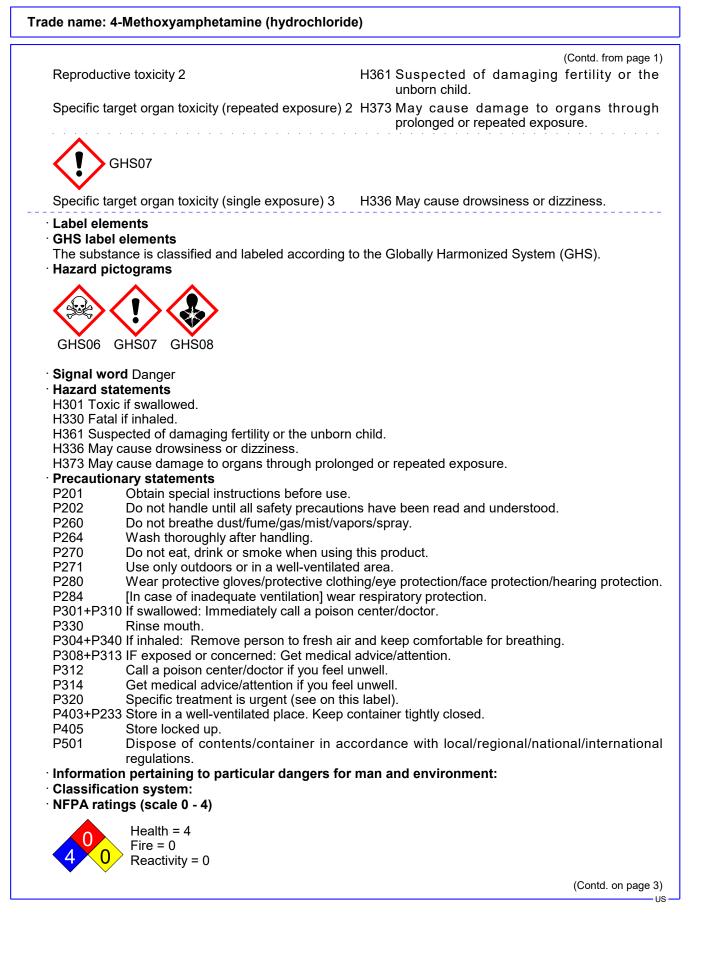
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Product identifier	
Trade name: <u>4-Methoxyamphetamine</u>	e (hydrochloride)
Synonym 4-methoxy-α-methyl-benzeneethanamir	ne monohydrochloride
4-MA	io, monoryaroonionao
p-MA	
para-Methoxyamphetamine PMA	
CAS Number:	
3706-26-1	
Other means of identification	
Article number: 12041	
690-788-8	
Application of the substance / the mi	
	or human or veterinary diagnostic or therapeutic use.
 Details of the supplier of the safety d Manufacturer/Supplier: 	lata sheet
Cayman Chemical Co.	
1180 E. Ellsworth Rd.	
Ann Arbor, MI 48108 USA	
Information department: Product safe	ty department
Emergency telephone number:	
During normal opening times: +1 (734)	971-3335
US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970	
Hozord(a) identification	
Hazard(s) identification	
Classification of the substance or mi	xture
GHS06 Skull and crossbones	
Children and crossbolles	
Acute toxicity - oral 3	H301 Toxic if swallowed.
Acute toxicity - oral 3	H330 Fatal if inhaled.
Acute toxicity - inhalation 2	
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· HMIS-ratings (scale 0 - 4)



· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.1200

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: Substances
- · CAS No. Description

3706-26-1 4-Methoxyamphetamine (hydrochloride)

- Identification number(s)
- **EC number:** 690-788-8

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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.
- 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.

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- 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: Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- **PAC-2:** Substance is not listed.
- **PAC-3:** Substance is not listed.
- · 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
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

- **Information about protection against explosions and fires:** 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: 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

- 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
- 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.
- · 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.

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· 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:



Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemic	al properties
· General Information	
• Physical state	Solid
· Color:	According to product specification
Odor:	Characteristic
· Structural Formula	C10H15NO • HCI
· Molecular Weight	201.7 g/mol
· Storage Buffer	
· Odor threshold:	Not determined.
· Formulation	
 Melting point/Melting range: 	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flammability:	Product is not flammable.
Explosion limits:	
Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH-value:	Not applicable.
· Viscosity:	
· Kinematic:	Not applicable.
SOLUBILITY	DMF: 30 mg/ml; DMSO: 30 mg/ml; Ethanol: 30 mg/ ml; PBS (pH 7.2): 10 mg/ml
· Dynamic:	Not applicable.
· Solubility in / Miscibility with	
· Water:	Not determined.
· Partition coefficient (n-octanol/water):	Not determined.
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Vapor pressure:	Not applicable.
Vapor pressure:	
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Particle characteristics	Not determined.
Other information	
Appearance:	
Form:	Solid
Important information on protection	n of health
and environment, and on safety.	
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Change in condition	· ·
Evaporation rate	Not applicable.

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: No dangerous decomposition products known.

11 Toxicological information

- · RTECS Number SH8124400
- Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

- Intraperitoneal LD50 91 mg/kg (mouse)
- Intraperitoneal TDLO 5,245 µg/kg (rat)
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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· 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.

· UN-Number · DOT, IMDG, IATA	UN2811
· UN proper shipping name	
DOT	Toxic solids, organic, n.o.s. (4-Methoxyamphetami (hydrochloride))
·IMDG	TOXIC SOLID, ORGANIC, N.O.S. (Methoxyamphetamine (hydrochloride))
·IATA	Toxic solid, organic, n.o.s. (4-Methoxyamphetami (hydrochloride))
· Transport hazard class(es)	
· DOT	
Toxic 6	
· Class	6.1 Toxic substances

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· Label	6.1
· IMDG, IATA	
6	
· Class	6.1 Toxic substances
· Label	6.1
 Packing group DOT, IMDG, IATA 	I
· 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 kg On cargo aircraft only: 50 kg
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	0 Code: E5 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 300 g
· 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 Minimi Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
Special precautions for user Hazard identification number (Kemler code EMS Number: Stowage Category	Warning: Toxic substances): 66 F-A,S-A B
· UN "Model Regulation":	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (4 METHOXYAMPHETAMINE (HYDROCHLORIDE)) 6.1, I

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.

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- 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 previous version 10/25/2022
- · Date of preparation 12/09/2024
- 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
- 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 3: Acute toxicity Category 3
- Acute toxicity inhalation 2: Acute toxicity Category 2 Reproductive toxicity 2: Poproductive toxicity - Category 2
- Reproductive toxicity 2: Reproductive toxicity Category 2

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

- Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) Category 2
- * * Data compared to the previous version altered.