

## Material Safety Data Sheet

### L-Tryptophan 7-amido-4-methylcoumarin hydrochloride

#### Section 1 - Chemical Product and Company Identification

<i>MSDS name</i>	L-Tryptophan 7-amido-4-methylcoumarin hydrochloride
<i>Catalog no.</i>	T-117
<i>Chemical name</i>	L-Tryptophan 7-amido-4-methylcoumarin hydrochloride
<i>Synonym</i>	H-Trp-AMC · HCl
<i>Application of the product</i>	Enzymsubstrate

#### Company Identification

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#### Section 2 - Composition, Information on Ingredients

<i>CAS No.</i>	<i>Chemical name</i>	<i>Percent</i>	<i>EINECS</i>	<i>Classification</i>
[201860-49-3]	L-Tryptophan 7-amido-4-methylcoumarin hydrochloride	100	NOT AVAILABLE	not available

#### Section 3 - Hazards Identification

##### Emergency Overview

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated. May be harmful if swallowed, inhaled or absorbed through skin.

<i>Target Organs</i>	None known.
<i>Potential Health Effects</i>	
<i>Eye</i>	May cause eye irritation.
<i>Skin</i>	May cause skin irritation.
<i>Ingestion</i>	May cause digestive tract irritation.
<i>Inhalation</i>	May cause respiratory tract irritation.
<i>Chronic</i>	Not available.

## Section 4 - First Aid Measures

<i>Eye</i>	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Call a physician.
<i>Skin</i>	In case of contact, wash skin with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.
<i>Ingestion</i>	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
<i>Inhalation</i>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Call a physician.
Notes to Physician	Treat symptomatically and supportively.

## Section 5 - Firefighting Measures

<i>General Information</i>	As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<i>Extinguishing Media</i>	In case of fire use water spray, carbon dioxide, dry chemical powder or appropriate foam.
<i>Autoignition Temperature</i>	Not available.
<i>Flash Point</i>	Not available.
<i>NFPA Rating</i>	Not published. Explosion Limits, Lower: Not available. Upper: Not available.

## Section 6 - Accidental Release Measures

<i>General Information</i>	Use proper personal protective equipment as indicated in Section 8.
<i>Spills/Leaks</i>	Sweep up, place in a bag and hold for waste disposal; avoid raising dust; ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

<i>Handling</i>	Avoid ingestion and inhalation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.
<i>Storage</i>	Keep container tightly closed when not in use. Store in deep freeze (below -15°C). Store dry. Protect from light.

## Section 8 - Exposure Controls, Personal Protection

<i>Engineering Controls</i>	Mechanical exhaust required. Safety shower and eye bath.
<i>Exposure Limit</i>	Not available.
<b>Personal Protective Equipment</b>	
<i>Eyes</i>	Wear chemical safety goggles or face shield if splashing is possible.
<i>Skin</i>	Wear compatible chemical-resistant gloves and clothing to prevent X skin exposure.

<i>Hand</i>	Wear compatible chemical-resistant gloves to prevent skin exposure.	X
<i>Clothing</i>	Wear appropriate protective clothing to prevent exposure.	
<i>Respirator</i>	Wear a NIOSH/MSHA or European Standard EN 149 approved respirator.	

## Section 9 - Physical and Chemical Properties

<i>Appearance</i>	white to off-white powder	
<i>Odor</i>	No characteristic odor.	X
<i>pH</i>	Not available.	
<i>Boiling Point</i>	0.000	X
<i>Melting Point</i>	0.000	
<i>Flash Point</i>	Not available.	
<i>Autoignition Temperature</i>	Not available.	
<i>Vapor Pressure</i>	Does not apply.	X
<i>Vapor Density</i>	Does not apply.	X
<i>Specific Gravity/Density</i>	Does not apply.	X
<i>Coeffizient octanol/water</i>	Not available.	
<i>Solubility in water</i>	Hardly soluble in water.	
<i>Solubility other</i>	Soluble in methanol, chloroform, benzene.	
<i>Other physical data</i>	Not available.	
<i>Molecular Formula</i>	C <sub>21</sub> H <sub>19</sub> N <sub>3</sub> O <sub>3</sub> · HCl	
<i>Molecular Weight</i>	397.860 g/mol	

## Section 10 - Stability and Reactivity

<i>Stability</i>	Stable.
<i>Conditions to Avoid</i>	Incompatible materials, light.
<i>Incompatibilities</i>	Strong oxidizing agents.
<i>Hazardous Decomposition Products</i>	Toxic fumes of: carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.
<i>Hazardous Polymerization</i>	Will not occur.

## Section 11 - Toxicological Information

<i>RTECS</i>	NOT AVAILABLE
<i>CAS No.</i>	[201860-49-3]
<i>LD50/LC50</i>	Not available.
<i>Carcinogenity</i>	Not available.
<i>Epidemiology</i>	Not available.
<i>Teratogen</i>	Not available.
<i>Reproductive Effects</i>	Not available.
<i>Neurotoxicity</i>	Not available.
<i>Mutagen</i>	Not available.
<i>Other Studies</i>	Not available.

## Section 12 - Ecological Information

<i>Ecotoxicity</i>	Not available.
<i>Environmental Fate</i>	Not available.
<i>Physical/Chemical</i>	Not available.
<i>Other</i>	Not available.

## Section 13 - Disposal Considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber; observe all federal, state and local environmental regulations.

## Section 14 - Transport Information

### ***IATA***

<i>UN Number</i>	Not regulated as a hazardous material (IATA/ADR)	X
<i>Proper Shipping Name</i>	not available	X
<i>Class</i>	not available	
<i>Packing Group</i>	not available	

### ***RID/ADR***

<i>UN Number</i>	Not regulated as a hazardous material (IATA/ADR)	X
<i>Proper Shipping Name</i>	not available	X
<i>Class</i>	not available	
<i>Packing Group</i>	not available	

## Section 15 - Regulatory Information

### ***European / International Regulations***

<i>Hazard Symbols</i>	not available
<i>R-Phrase No.</i>	<i>Risk Phrases</i>
not available	not available

<i>S-Phrase No.</i>	<i>Safety Phrases</i>	
not available	not available	X

### ***International Regulations***

not available

### ***Various***

<i>Exposure Limit</i>	Not available.
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## Section 16 - Additional Information

not available	not available
not available	not available

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*The information above is believed to be correct and represents the best information currently available to us but does not purport to be all inclusive and shall be used only as a guide. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way Gold Biotechnology, Inc. be liable for any claims, losses, or damages of any third*

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changes are marked with X

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