

Material Safety Data Sheet

4-Methyl-DL-tryptophan

Section 1 - Chemical Product and Company Identification

<i>MSDS name</i>	4-Methyl-DL-tryptophan
<i>Catalog no.</i>	M-492
<i>Chemical name</i>	4-Methyl-DL-tryptophan
<i>Synonym</i>	DL-2-Amino-3-(4-methylindolyl)propionic acid
<i>Application of the product</i>	Pharmaceutical Intermediate

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>
[1954-45-6]	4-Methyl-DL-tryptophan	100	NOT AVAILABLE	No hazardous product.

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.
<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 soap and water. Call a physician.
<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 available.

Section 6 - Accidental Release Measures

<i>General Information</i>	Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
<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. Refrigerate (2-8° X 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.
<i>Personal Protective Equipment</i>	
<i>Eyes</i>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
<i>Skin</i>	Wear compatible chemical-resistant gloves and clothing to prevent skin exposure. X
<i>Hand</i>	Wear compatible chemical-resistant gloves to prevent skin

<i>Clothing</i>	exposure. Wear appropriate protective clothing to prevent exposure.
<i>Respirator</i>	Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

<i>Appearance</i>	slightly off-white to light brown crystalline powder	X
<i>Odor</i>	No characteristic odor.	X
<i>pH</i>	Does not apply.	X
<i>Boiling Point</i>	0.000	X
<i>Melting Point</i>	286.000 GC	
<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>	Insoluble in water.	
<i>Solubility other</i>	Soluble in NaOH.	
<i>Other physical data</i>	Not available.	
<i>Molecular Formula</i>	C ₁₂ H ₁₄ N ₂ O ₂	
<i>Molecular Weight</i>	218.260 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.
<i>Hazardous Polymerization</i>	Will not occur.

Section 11 - Toxicological Information

<i>RTECS</i>	NOT AVAILABLE
<i>CAS No.</i>	[1954-45-6]
<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

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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