

# Material Safety Data Sheet (MSDS)

<i>Revision Number: 1.1</i>	<i>Last updated November 2010</i>
<b><u>Product and Company Identification</u></b>	
<i>Product Name:</i>	Biotin
<i>Manufacturer/Supplier:</i>	AnaSpec, Inc. 34801 Campus Drive, Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9573 <a href="http://www.anaspec.com">http://www.anaspec.com</a>
<b><u>Composition / Information on Ingredients</u></b>	
D-Biotin, (+)-Biotin, Vitamin H <i>Molecular Formula:</i> C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S <i>Molecular Weight:</i> 244.3 <i>CAS Number:</i> 58-85-5	
<b><u>Hazards Identification</u></b>	
<i>Emergency Overview:</i> No known OSHA hazards	
<i>Potential Health Effects</i>	
<i>Inhalation:</i>	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
<i>Ingestion:</i>	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
<i>Skin:</i>	In case of contact, immediately wash skin with soap and plenty of water.
<i>Eyes:</i>	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.
<i>Chronic Exposures:</i>	Not determined
<i>Target Organs:</i>	Not determined
<b><u>Fire Fighting Measures</u></b>	
<i>Extinguishing media:</i>	Water spray, carbon dioxide, dry chemical powder or appropriate foam.
<i>Special firefighting procedures:</i>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<i>Unusual fire and explosions hazards:</i>	Emits toxic fumes under fire conditions.
<b><u>Accidental Release Measures</u></b>	
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.	

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<b><u>Handling and Storage</u></b>	
Handle in accordance with good industrial hygiene and safety practice. Store at 2-8 °C.	
<b><u>Exposure Controls / Personal Protection</u></b>	
Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.	
<b><u>ACGIH/OSHA Permissible Exposure Limit Data:</u></b>	
Not determined	
<b><u>Physical and Chemical Properties</u></b>	
<i>Form:</i>	Solid
<i>Color:</i>	White to off-white
<i>Boiling Point:</i>	Not determined
<i>Melting Point:</i>	230-235C
<i>Flash Point:</i>	Not determined
<b><u>Stability and Reactivity</u></b>	
<i>Stability:</i>	Stable under recommended storage conditions
<i>Dangerous Products of Decomposition:</i>	Carbon oxides, nitrogen oxides and Sulphur oxides
<i>Materials to avoid:</i>	Strong oxidizing agents
<b><u>Toxicological Information</u></b>	
<i>Toxicity:</i>	We are not aware of any toxicity data for this product.
<i>Health Hazards:</i>	Skin Contact: May cause skin irritation. May be harmful if absorbed through skin. Eye Contact: May cause eye irritation. Inhalation: May be harmful if inhaled. Ingestion: May be harmful if swallowed.
<i>Carcinogenicity:</i>	Not listed by NTP, IARC or OSHA.
<b><u>Ecological Information</u></b>	
Do not allow product to reach ground water, watercourse, or sewage system.	
<b><u>Disposal Considerations</u></b>	
Consult local, state or national regulations for proper disposal.	
<b><u>Transport Information</u></b>	
This substance is considered to be non-hazardous for transport	
<b><u>Regulations</u></b>	
<i>SARA 311/312 Hazard:</i>	NO SARA Hazards
<i>RTECS #:</i>	XJ9088200

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California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.
<b><u>Other Information</u></b>	
<i>It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. Anaspec shall not be held liable for any damage resulting from handling or from contact with the above product.</i>	

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