

Material Safety Data Sheet (MSDS)

Revision Number: 1.1		Last updated March, 2011	
Product and Company Identification			
Product Name:		4-Methylumbelliferyl-β-D-glucopyranosiduronic acid	
Catalog Number:		85606	
Manufacturer/Supplier:		AnaSpec, Inc. 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560	
Composition / Information on Ingredients			
Synonym: MUGlcU Molecular Formula: C ₁₆ H ₁₆ O ₉ Molecular Weight: 352.3 CAS Number: 881005-91-0			
Hazards Identification			
Emergency Overview: No known OSHA hazard			
First Aid Measure:			
Inhalation:		If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.	
Ingestion:		If swallowed, wash out mouth with water provided person is conscious. Call a physician.	
Skin:		In case of contact, immediately wash skin with soap and plenty of water.	
Eyes:		In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.	
Fire Fighting Measures			
Extinguishing media:		Water spray, carbon dioxide, dry chemical powder or appropriate foam.	
Special firefighting procedures:		Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	
Unusual fire and explosions hazards:		Emits toxic fumes under fire conditions.	
Accidental Release Measures			
Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.			
Handling and Storage			
Desiccation recommended. Store at -20°C. Protect material from long-term exposure to light.			

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<u>Exposure Controls / Personal Protection</u>	
Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.	
<u>ACGIH/OSHA Permissible Exposure Limit Data:</u>	
Not determined	
<u>Physical and Chemical Properties</u>	
<i>Form:</i>	Solid
<i>Odor:</i>	Not determined
<i>Boiling Point:</i>	Not determined
<i>Melting Point:</i>	Not determined
<i>Flash Point:</i>	Not determined
<u>Stability and Reactivity</u>	
<i>Stability:</i>	Stable under recommended storage conditions.
<i>Materials to avoids:</i>	Strong oxidizing agents
<u>Toxicological Information</u>	
<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 ACGIH.
<u>Ecological Information</u>	
Do not allow product to reach ground water, watercourse, or sewage system.	
<u>Disposal Considerations</u>	
Consult local, state or national regulations for proper disposal.	
<u>Transport Information</u>	
This substance is considered to be non-hazardous for transport	
<u>Regulations</u>	
<i>US Toxic Substances Control Act (TSCA) Status:</i>	On TSCA Inventory
<i>OSHA Hazard:</i>	No known OSHA hazards
<i>SARA 311/312 Hazard:</i>	No SARA hazards
<u>Other Information</u>	
<i>This material is not intended for food, drug, and 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 Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.</i>	