

Material Safety Data Sheet

		Date Created Date Updated Version	10/10/2013 1.1
Section 1- Product Information			
Product Name:	Betacellulin, Murine		
Product Cat. No.:	Z03162-10, Z03162-50, Z03162-1		
Section 2- Composition / Information	on on Ingredients		
Substance / Preparation:	Substance		
Ingredient Name	Betacellulin, Murine		
CAS No.	No		
SARA 313	No		
Section 3- Hazards Identification			
HMIS Rating			
Health	0		
Flammability	0		
Reactivity	0		
NFPA Rating	0		
Health	0		
Flammability	0		
Reactivity	0		
For additional information on toxicity, please ref	er to Section 11.		
Section 4- First Aid Measures			
Oral Exposure	If swallowed, wash out mouth with water provided physician.	person is consci	ous. Call a
Inhalation Exposure	If inhaled, remove to fresh air. If breathing becomes of	difficult, call a phys	ician.
Dermal Exposure	In case of skin contact, flush with copious amounts of		
•	Remove contaminated clothing and shoes. Call a phy		
Eye Exposure	In case of contact with eyes, flush with copious and minutes. Assure adequate flushing by separating th physician.	ounts of water for	
Section 5- Fire Fighting Measures			
Flash Point	Not available		
Autoignition Temp	Not available		
Flammability	Not available		
Extinguishing Media			
Suitable	Water spray. Carbon dioxide, dry chemical powder, or	annronriate foam	
Fire Fighting	water spray. Carbon dioxide, dry chemical powder, or	appropriate toarn.	
	Wear calf contained breathing apparatus and protecti	va alathing ta prov	vent centest
Protective Equipment	Wear self-contained breathing apparatus and protecti	ve clothing to pre	vent contact
	with skin and eyes.		
Specific Hazard(s)	Emits toxic fumes under fire conditions		
Section 6- Accidental Release Meas			
Procedure to Be Followed in Case of Leak or Spill	Evacuate area		
Procedure(s) of Personal Precaution(s)	Wear respirator, chemical safety goggles, rubber boots		
Methods for Cleaning Up	Sweep up, place in a bag and hold for waste disposal. area and wash spill site after material pickup is comple		t. Ventilate
Section 7- Handling and Storage			
Handling			
User Exposure	Avoid inhalation. Avoid contact with eyes, skin, and	clothing. Avoid p	rolonged or
	repeated exposure.	· ·	-
Storage	Lyophilized recombinant Murine Betacellulin remains s	table up to 6 mont	hs at -80°C
-	from date of receipt. Upon reconstitution, Murine Betac 1 week at 4°C or up to 2 months at -20°C.		
	860 Centennial Ave., Piscataway, NJ 08854, USA		



Section 8- Exposure Controls/Personal Protection Equipment

Engineering Controls Personal Protective Equipment	Mechanical exhaust required
Respiratory	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) respirator.
Other	Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.
General Hygiene Measures	Wash thoroughly after handling

Section 9- Physical and Chemical Properties

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Appearance		
Physical State	Lyophilized powder	
Property		
Molecular Weight	19~24 kDa	
рН	Not available	
BP/BP Range	Not available	
MP/MP Range	Not available	
Freezing Point	Not available	
Vapor Pressure	Not available	
Vapor Density	Not available	
Saturated Vapor Conc.	Not available	
SG/Density	Not available	
Bulk Density	Not available	
Odor Threshold	Not available	
Volatile%	Not available	
VOC Content	Not available	
Water Content	Not available	
Solvent Content	Not available	
Evaporation Rate	Not available	
Viscosity	Not available	
Surface Tension	Not available	
Partition Coefficient	Not available	
Decomposition Temp.	Not available	
Flash Point	Not available	
Explosion Limits	Not available	
Flammability	Not available	
Autoignition Temp	Not available	
Refractive Index	Not available	
Optical Rotation	Not available	
Miscellaneous Data	Not available	
Solubility	Not available	
Section 10- Stability and Reactivity		
Stability		
Stable	Stable	
Hazardous Decomposition Products		
Hazardous Decomposition Products	Nature of decomposition products not known	
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Section 11- Toxicological Information		
Route of Exposure		
Skin Contact	May cause skin irritation	
Skin Absorption	May be harmful if absorbed through the skin	
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract, May	
	be harmful if inhaled.	
Ingestion	May be harmful if swallowed	
Conditions Aggravated by Exposure	The toxicological properties have not been thoroughly investigated.	
Conditione Aggravator by Exposure		
Section 12- Ecological Information		

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Eco-toxicity Toxicity of The Products of Biodegradation	The product itself and its products of degradation are not toxic.	
Section 13- Disposal Consideration	IS	
Appropriate Method of Disposal of Substance or Preparation	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
Section 14- Transport Information		
DOT		
Proper Shipping Name	None	
Non-Hazardous for Transport	This substance is considered to be non-hazardous for transport.	
IATA		
Non-Hazardous for Air Transport	Non-hazardous for air transport	
Section 15- Regulatory Information		
United States Regulatory information		
SARA Listed	No	
Canada Regulatory Information		
WHMIS Classification	This product has been classified in accordance with the hazard criteria of the CPR,	
	and the MSDS contains all the information required by the CPR.	
DSL	No	
NDSL	No	
Section 16- Other Information		

Disclaimer

For *in vitro* research use only.

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.