

**Material Safety Data Sheet**

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**Product:** Bovine Insulin Powder  
**Product Code:** GEM-700-112-P

<b>Hazardous components</b>	Biohazard. Contains animal source material. Handle as though capable of transmitting infectious agents. This material has not been viral tested and should be handled at Biohazard Safety Level 2
<b>Toxicity</b>	<p>ROUTE OF EXPOSURE:</p> <p>Skin Contact: May cause skin irritation.  Skin absorption: May be harmful if absorbed through the skin.  Eye contact: May cause eye irritation.  Inhalation: May be harmful if inhaled or may be irritating to mucous membranes and upper respiratory tract.  Ingestion: May be harmful if swallowed.</p> <p>SIGNS AND SYMPTOMS OF EXPOSURE:  To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p>
<b>Target Organs/Systems</b>	Avoid contact with skin and eyes. May irritate the upper respiratory tract and mucous membranes. Avoid breathing dust.
<b>Effects of Overexposure</b>	Not established
<b>First Aid Procedures</b>	<p>If product gets into eyes, open eyelids with fingers and flush eyes with copious amounts of water for at least 15 minutes.</p> <p>If products gets on skin, wash the skin with soap and copious amounts of water.</p> <p>If swallowed and person is conscious, rinse mouth with water, consult a health care provider.</p> <p>If product is inhaled, get to fresh air. If there is any difficulty in breathing, seek medical attention. If there is any irritation, consult a health care provider.</p>

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<b>Physical / Chemical Properties</b>	Appearance	N/A	
	<b>Property</b>	<b>Value</b>	<b>At Temperature or Pressure</b>
	Molecular Weight	N/A	N/A
	pH	N/A	N/A
	BP/BP Range	N/A	N/A
	MP/MP Range	N/A	N/A
	Freezing Point	N/A	N/A
	Vapor Pressure	N/A	N/A
	Saturated Vapor Conc.	N/A	N/A
	SG/Density	N/A	N/A
	Bulk Density	N/A	N/A
	Odor Threshold	N/A	N/A
	Volatile %	N/A	N/A
	VOC Content	N/A	N/A
	Water Content	N/A	N/A
	Solvent Content	N/A	N/A
	Evaporation Rate	N/A	N/A
	Viscosity	N/A	N/A
	Surface Tension	N/A	N/A
	Partition Coefficient	N/A	N/A
	Decomposition Temp.	N/A	N/A
Flash Point	N/A	N/A	
Explosion Limits	N/A	N/A	
Flammability	N/A	N/A	
Auto ignition Temp.	N/A	N/A	
Refractive Index	N/A	N/A	
Optical Rotation	N/A	N/A	
Miscellaneous Data	N/A	N/A	
Solubility	N/A	N/A	
<b>Stability</b>	Stable		
<b>Conditions or Materials to Avoid</b>	Strong oxidizing agents.		
<b>Hazardous Decomposition</b>	Carbon oxides, nitrogen oxides, sulphur oxides		
<b>Hazardous Polymerisation</b>	To our knowledge will not occur		
<b>Flammability</b>	Non-flammable		

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<b>Flash Point</b>	N/A
<b>Flammable Limits</b>	N/A
<b>Extinguishing Media</b>	Use appropriate media for the surrounding fire. Carbon dioxide, dry chemical powder, appropriate foam or water spray.
<b>Special Fire Fighting Procedures</b>	None. Although as in any fire, self-contained breathing apparatus and protective clothing may be required.
<b>In the event of a spill or leak</b>	Exercise appropriate precautions to minimize direct contact with skin and eyes, and prevent inhalation of dust. Put into a closed container for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete.
<b>Disposal</b>	Abide by all local and government regulations regarding infectious waste material.
<b>Handling</b>	<p>Avoid inhalation, contact with clothing, skin and eyes. Avoid repeated or prolonged exposure.</p> <p>ENGINEERING CONTROLS: Safety shower and eye bath. Mechanical exhaust required. Avoid inhalation.</p> <p>PPE: Respiratory: Wear mask Hand: Wear protective gloves Eyes: Wear chemical safety goggles</p> <p>GENERAL HYGIENE MEASURES: Wash thoroughly after handling</p>
<b>Eye/Skin Protection</b>	Wear suitable protective clothing, safety glasses with side shields and chemical resistant latex/rubber gloves are recommended. Avoid inhalation.

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<b>Storage</b>	Store at -20°C
<b>Disclaimer</b>	This information is believe to be correct but does not purport to be all inclusive and is to be used only as a guide. SLI will not be held liable for any damage resulting from handling or from contact with the above product.
<b>Transport Information</b>	This product is considered to be non-hazardous for transport (including air transport).
<b>Harmonised Tariff Code</b>	3822 0000
<b>Usage</b>	These products are for LABORATORY RESEARCH USE ONLY. They may not be used as drug, agricultural or pesticidal products, food additives or household chemicals.