

MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	IMMUNOREGULIN® IMMUNOSTIMULANT		
Manufacturer's Name:	Neogen Corporation	Emergency Phone No.	859 254 1221
	944 Nandino Blvd.	Fax No.:	859 255 5532
	Lexington, KY 40511	e-mail:	inform@neogen.com
Date Prepared or Revised: 11/15/05			

Section II – Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical Identity: Common Names)	OSHA PEL (Permissible Exposure Limits)	ACGIH TLV (Threshold Limit Value)	Toxicity Data LD ₅₀
Non-hazardous component: Washed inactivated bacterial cell suspension of <i>Propionibacterium acnes</i> in saline solution.	N/A	N/A	N/A.
Hazardous component: Ethyl alcohol 12.5% v/v CAS 64-17-5	1000 ppm	1000 ppm	Oral-Young rat 10.6 g/kg Oral-Old rat 7.06 g/kg

Section III – Physical Characteristics	
Boiling Point: N/A	Specific Gravity (H ₂ O = 1): N/A
Vapor Pressure (mm Hg.): N/A	Melting Point: N/A
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: Forms a suspension with water	
Appearance and Odor: Clear liquid with visible sediment. No characteristic odor.	

Section IV – Fire and Explosion Hazard Data	
Flash Point (<i>Method Used</i>): Not Flammable	Flammable Limits: LEL (Lower Explosive Limit) - N/A UEL (Upper Explosive Limit) - N/A
Extinguishing Media: N/A	
Special Fire Fighting Procedures:	
Unusual Fire and Explosion Hazards: N/A	

Section V – Reactivity Data			
Stability	Unstable		Conditions to Avoid: N/A
	Stable	X	
Incompatibility (<i>Materials to Avoid</i>):			
Hazardous Decomposition or Byproducts:			
Hazardous Polymerization	May Occur		Conditions to Avoid: N/A
	Will Not Occur	X	

Section VI – Health Hazard Data			
Route(s) of Entry:	Inhalation-Minor route	Skin-Minor route Eyes-Not considered eye irritant	Ingestion-Minor route
Health Hazards (Acute and Chronic)	Final product poses no known health risk		
Carcinogenicity: NTP-No reason to suspect that these antigens have carcinogenic potential. (National Toxicology Program)	IARC Monograph-Not listed (International Agency for Research in Cancer)	OSHA Regulated-Yes Ethyl alcohol content	
Signs and Symptoms of Exposure: No signs or symptoms of disease are known to be related with this product.			
Medical Conditions Generally Aggravated by Exposure: No applicable information found.			
Emergency / First Aid Procedures	Ingestion: No information available regarding adverse effects via ingestion. Ingestion not considered a likely route of exposure.		
	Inhalation: Not considered a route of potential exposure. Saline media is not volatile.		
	Eye Contact: Not considered an eye irritant. Flush eyes for several minutes with water after prolonged contact. If irritation develops, consult a physician.		
	Skin Contact: Not considered a skin irritant. Wash with soap and water after prolonged contact. If irritation develops, consult a physician.		

Section VII – Precautions for Safe Handling and Use
Accidental Release Measures: Recover spilled product by applying absorbent (towels, rags, sawdust, etc) to the spill. Shovel and sweep up the spilled product and absorbent waste and transfer to a suitable container.
Waste Disposal Method: Product may be deposited in trash and disposed of in a sanitary landfill in accordance with local, state and Federal regulations.
Handling and Storing: Do not store product over 100°F (37°C). Protect product from freezing.
Other Precautions: Avoid injection with product.

Section VIII – Control Measures		
Respiratory Protection (Specify Type): None required		
Ventilation	Local Exhaust: Ordinary exhaust adequate	Special:
	Mechanical (General):	Other:
Protective Gloves:	Eye Protection: Safety glasses or goggles	
Other Protective Clothing or Equipment: Normal work practices and equipment which minimizes prolonged skin or eye contact.		
Work / Hygienic Practices: Normal hygienic practices to minimize exposure.		

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.