

MATERIAL SAFETY DATA SHEET

Section I – Product Information				
Product Name or Identity:	Buffered Listeria Enrichment Broth			
Manufacturer's Name:	Acumedia Manufacturers, Inc. Emergency Phone N		517/372-9200	
	740 East Shiawassee	Fax No.:	517/372-2006	
	Lansing, Michigan 48912	e-mail:	foodsafety@neogen.com	
Date Prepared or Revised: 10/11/04				

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		
Sodium Chloride, NaCl, Common salt	N/A	N/A	ORL-RAT, 3000 mg/kg		
Sodium Phosphate	N/A	N/A	ORL-RAT, 17000 mg/kg		
Potassium Phosphate	N/A	N/A	SKN-RBT, >4640 mg/kg		
Cycloheximide	N/A	N/A	ORL-RAT, 2 mg/kg		

Section III – Physical Characteristics				
Boiling Point: 1413°C (Sodium Chloride)	Specific Gravity (H₂O = 1): 2.16 g/cm ³ (Sodium Chloride)			
2 g/l (Cycloheximide)	1.67 g/cm ³ (Sodium Phosphate)			
Vapor Pressure (mm Hg.): 865°C (Sodium Chloride)	Melting Point: 119°C (Cycloheximide), 804°C (Sodium Chloride) 240°C (Sodium Phosphate). >465°C (Potassium Phosphate)			
Vapor Density (AIR = 1): 4.9 g/l (Sodium Phosphate)	Evaporation Rate (Butyl Acetate = 1): N/A			
Solubility in Water: 35 g/100g at 0°C (Sodium Chloride), Soluble (Sodium Phosphate) 150 g/100g cold water (Potassium Phosphate).				
Appearance and Odor: White powder. Characteristic odor. (Sodium Chloride), (Nalidixic Acid), Soluble (Sodium Phosphate)				

White crystals or powder, odorless (Potassium Phopshate), White, crystalline powder w/musky odor. (Cycloheximide)

Section IV – Fire and Explosion Hazard Data				
Flash Point (Method Used): Not applicable	Flammable Limits: LEL (Lower Explosive Limit) - N/A			
	UEL (Upper Explosive Limit) - N/A			
Extinguishing Media: Use sand, carbon dioxide, or powdered extinguishing agent. Never use water.				
Special Fire Fighting Procedures: Fight larger fires with alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus. Remove contaminated clothing immediately.				
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases are produced.				

Section V – Reactivity Data					
Stability:	Unstal	ble		Conditi	itions to Avoid: Protect from light and moisture.
	Stable	e X			
Incompatibi	Incompatibility (Materials to Avoid): Reacts with acids, alkalis and oxidizing agents.				
	Hazardous Decomposition or Byproducts: Acids, alkalis, oxidizing agents, Phosphorus oxides (POx), Carbon				
monoxide (CO), Carbon dioxide (CO ₂) and Nitrogen oxides (NOx).					
Hazardous		May Occur			Conditions to Avoid: Decomposes by alkalis.
Polymerizati	ion:				
	,	Will Not Occ	cur	Х	

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Section VI – Health Hazard Data						
Route(s) of Ent	Entry: Inhalation? Yes		Skin? Yes	Ingestion? Yes		
	Health Hazards: Image: Construction of the system in the system is system in the system in the system is system.					
Carcinogenicit	-	NTP? No National Toxicology Program)	IARC Monographs? No (International Agency for Research in Cancer)	OSHA Regulated? No		
 Signs and Symptoms of Exposure: Irritant to skin, eyes, and mucous membranes. Allergic reactions in hypersensitive persons. Phosphates are slowly and incompletely absorbed when ingested. Symptoms may include vomiting, lethargy, diarrhea, and cardiac effects. Sodium Phosphate is a corrosive material and can cause burns. Medical Conditions Generally Aggravated by Exposure: Possible risk of irreversible effects. Symptoms of poisoning may even occur after several hours; therefore medical observation is necessary for at least 48 hours after the accident. Irritation, nausea, vomiting diarrhea, tremors, salivation and melena are signs of overexposure of Cycloheximide. Overexposure may cause reproductive disorder based on test with laboratory animals. Chronic exposure of Sodium Phosphate may sequester calcium and cause calcium phosphate deposits in the kidneys. 						
Emergency / General Information: Immediately remove contaminated clothing. Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest, provide artificial respiration. Procedures: Ingestion: If swallowed, seek medical attention immediately. Inhalation: Supply fresh air or oxygen. Seek medical attention immediately. In case of unconsciousness, place patient on side position for transportation. If required, provide artificial respiration.						
	Eye Contact: Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating eyelids with fingers. Seek medical attention. Skin Contact: Wash with plenty of soap and water for at least 15 minutes.					

Section VII – Precautions for Safe Handling and Use

Accidental Release Measures: Ventilate spill area. Wear suitable protective clothing. Avoid inhalation, contact with eyes, skin, and clothing. Keep respiratory protective device available. Remove contaminated clothing immediately. In case of fire, use sand carbon dioxide or powdered extinguishing agent. Never use water.

Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations. This product should be disposed of in a special hazardous waste collection container.

Handling and Storing: Keep container tightly closed. Protect from moisture. Store away from oxidizing, acidic agents, and alkali material (caustic). Keep receptacle tightly sealed. Store only in the original receptacle.

Other Precautions: Prevent formation of dust. Do not breathe dust. Ensure good ventilation / exhaustion at the workplace. Prevent prolonged or repeated exposure.

Section VIII – Control Measures					
Respiratory Protection (Specify Type): None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.					
Ventilation:	Local Exhaust: 50 – 100 CFM	Special: N/A			
	Mechanical (General): N/A	Other: N/A			
Protective Glove	es: Proper disposable gloves	Eye Protection: Chemical resistant safety goggles			
Other Protective Clothing or Equipment: Long-sleeved lab coat, safety shower and eye wash recommended.					

Work / Hygienic Practices: Follow the usual precautionary measures for handling chemicals / powder. Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes, skin and clothing.

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