

## MATERIAL SAFETY DATA SHEET

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

Section II – Hazardous Ingredients / Identity Information						
Hazardous Components:	OSHA PEL	ACGIH TLV	Toxicity Data LD <sub>50</sub>			
(Specific Chemical Identity: Common Names)	(Permissible	(Threshold	-			
	Exposure Limits)	Limit Value)				
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			

Section III – Physical Characteristics					
Boiling Point: 1413°C (Sodium Chloride)	<b>Specific Gravity</b> ( $H_2O = 1$ ): 2.16 g/cm <sup>3</sup> (Sodium Chloride)				
	1.67 g/cm <sup>3</sup> (Sodium Phosphate)				
Vapor Pressure (mm Hg.): 1.0 @ 865°C (Sodium Chloride)	Melting Point: 804°C (Sodium Chloride)				
Vapor Density (AIR = 1): 4.9g/I (Sodium Phosphate)	Evaporation Rate (Butyl Acetate = 1): N/A				
Solubility in Water: 35.7 g/100g at 0°C (Sodium Chloride), Soluble (Sodium Phosphate.)					
Appearance and Odor: Colorless crystals or white powder. Characteristic odor. (Sodium Chloride).					

White powder, odorless (Sodium Phosphate).

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: Suitable extinguishing agents. CO <sub>2</sub> , extinguishing powder, or water spray.					
Special Fire Fighting Procedures: Fight larger fires with water or alcohol resistant foam. Firefighters should wear					

protective equipment and self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** During heating or in case of fire, poisonous gases are produced.

Section V – Reactivity Data						
Stability:	ity: Unstable Conditions to Avoid: Stable under ordinary conditions of use and storage.   Hygroscopic. Protect from moisture. Hygroscopic.					
	Stable	Х				
Incompatibility (Materials to Avoid): Reacts with acids, alkalis, bases, oxidizing agents, Lithium, and Bromine trifluoride.						
	<b>Hazardous Decomposition or Byproducts:</b> Phosphorous oxides and Sodium oxides. When heated to above 801°C it emits toxic fumes of chloride and sodium oxide.					
		Conditions to Avoid: Dust generation, exposure to air, excess heat, and incompatible materials.				
-	Will Not	Occur	Х			

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Section VI – Health Hazard Data								
Route(s) of Entr	y: Inhalation? Yes	Skin? Yes	Ingestion? Yes					
			I					
	ealth Hazards: Irritant. Irritating to eyes, respiratory system, and skin.							
(Acute and Chroi	nic)	1						
Carcinogenicity: NTP? No		IARC Monographs? No	OSHA Regulated? No					
	(National Toxicology Program)	(International Agency for Research in Cancer)						
• • •	Signs and Symptoms of Exposure: Irritant to skin and mucous membranes. Irritating effect to eye. May cause irritation							
		nd incompletely absorbed when ingester						
vomiting, lethargy	v, diarrhea, and cardiac effects. Sodiu	m Phosphate is a corrosive material and	can cause burns.					
Medical Conditions Generally Aggravated by Exposure: Chronic exposure of Sodium Phosphate may sequester								
calcium and cause calcium phosphate deposits in the kidneys. Can produce delayed pulmonary edema. Effects may be								
delayed.								
Emergency / First Aid	•							
Procedures:	Inhalation: Supply fresh air or oxygen. Seek medical attention.							
Trocedures.	Evo Contact: Pinco oponod ovo for	at least 15 minutes under running water.	Sock modical attention					
	Lye Contact. Kinse opened eye for a	a least 15 minutes under furning water.						
	Skin Contact: Wash with plenty of soap and water for 15 minutes. Seek medical attention.							

## Section VII – Precautions for Safe Handling and Use

Accidental Release Measures: Ventilate spill area. Wear suitable protective clothing. Wipe up with damp sponge or mop. Avoid inhalation, contact with eyes, skin, and clothing.

Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations.

**Handling and Storing:** Keep container tightly closed. Protect from moisture. Suitable for any general chemical storage area. Store away from oxidizing agents.

**Other Precautions:** Prevent formation of dust. Ensure good ventilation / exhaustion at the workplace. Avoid prolonged or repeated exposure.

Section VIII – Control Measures							
<b>Respiratory Protection</b> (Specify Type): None required where adequate ventilation conditions exist. If airbo concentration is high, use an appropriate respirator or dust mask.							airborne
Ventilation:	Local Exhaust: 50 – 100 CFM		Special: N/A				
	Mechanical (General): N/	A	Other: N/A				
Protective Gloves: Proper disposable gloves		Eye Protection: Chemical resistant safety goggles					

Other Protective Clothing or Equipment: Uniform, lab coat, or disposable lab wear.

**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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