



## MATERIAL SAFETY DATA SHEET

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

Section II – Hazardous Ingredients / Identity Information			
<b>Hazardous Components:</b> (Specific Chemical Identity: Common Names)	<b>OSHA PEL</b> (Permissible Exposure Limits)	<b>ACGIH TLV</b> (Threshold Limit Value)	<b>Toxicity Data</b> <b>LD<sub>50</sub></b>
Sodium Chloride, NaCl, Common salt	N/A	N/A	ORL-RAT 3000 mg/kg

Section III – Physical Characteristics	
<b>Boiling Point:</b> 1413°C	<b>Specific Gravity</b> (H <sub>2</sub> O = 1): 2.16 g/cm <sup>3</sup>
<b>Vapor Pressure (mm Hg.):</b> 1.0 @ 865°C	<b>Melting Point:</b> 804°C
<b>Vapor Density (AIR = 1):</b> N/A	<b>Evaporation Rate</b> (Butyl Acetate = 1): N/A
<b>Solubility in Water:</b> 35.7 g/100g at 0°C	
<b>Appearance and Odor:</b> Colorless crystals or white powder. Characteristic odor.	

Section IV – Fire and Explosion Hazard Data	
<b>Flash Point</b> ( <i>Method Used</i> ): Not applicable	<b>Flammable Limits:</b> LEL (Lower Explosive Limit) - N/A UEL (Upper Explosive Limit) - N/A
<b>Extinguishing Media:</b> Suitable extinguishing agents. CO <sub>2</sub> , extinguishing powder, or water spray.	
<b>Special Fire Fighting Procedures:</b> Fight larger fires with water or alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus.	
<b>Unusual Fire and Explosion Hazards:</b> During heating or in case of fire, poisonous gases are produced.	

Section V – Reactivity Data			
<b>Stability:</b>	Unstable		Conditions to Avoid: Stable under ordinary conditions of use and storage. Hygroscopic.
	Stable	X	
<b>Incompatibility</b> ( <i>Materials to Avoid</i> ): Reacts with acids, alkalis, oxidizing agents, Lithium, and Bromine trifluoride.			
<b>Hazardous Decomposition or Byproducts:</b> When heated to above 801°C it emits toxic fumes of chloride and sodium oxide.			
<b>Hazardous Polymerization:</b>	May Occur		Conditions to Avoid: Incompatible materials.
	Will Not Occur	X	

Section VI – Health Hazard Data			
<b>Route(s) of Entry:</b>	Inhalation? Yes	Skin? Yes	Ingestion? Yes
<b>Health Hazards:</b> (Acute and Chronic)	Irritant. Irritating to eyes, respiratory system, and skin.		
<b>Carcinogenicity:</b>	NTP? No (National Toxicology Program)	IARC Monographs? No (International Agency for Research in Cancer)	OSHA Regulated? No
<b>Signs and Symptoms of Exposure:</b> Irritant to skin and mucous membranes. Irritating effect to eye.			
<b>Medical Conditions Generally Aggravated by Exposure:</b> No sensitizing effects known. If large doses can cause vomiting, diarrhea, and prostration.			
<b>Emergency / First Aid Procedures:</b>	Ingestion: If swallowed, seek medical attention.		
	Inhalation: Supply fresh air or oxygen. Seek medical attention.		
	Eye Contact: Rinse opened eye for at least 15 minutes under running water. Seek medical attention.		
	Skin Contact: Wash with plenty of soap and water for 15 minutes. Generally this product does not irritate the skin.		

Section VII – Precautions for Safe Handling and Use	
<b>Accidental Release Measures:</b> Ventilate spill area. Wear suitable protective clothing. Wipe up with damp sponge or mop. Remove contaminated clothing.	
<b>Waste Disposal Method:</b> Dispose in accordance with all applicable federal, state, and local environmental regulations.	
<b>Handling and Storing:</b> Keep container tightly closed. Protect from moisture. Suitable for any general chemical storage area. Store away from oxidizing agents.	
<b>Other Precautions:</b> 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 airborne concentration is high, use an appropriate respirator or dust mask.		
<b>Ventilation:</b>	Local Exhaust: 50 – 100 CFM	Special: N/A
	Mechanical (General): N/A	Other: N/A
<b>Protective Gloves:</b> Proper disposable gloves		<b>Eye Protection:</b> Chemical resistant safety goggles
<b>Other Protective Clothing or Equipment:</b> Uniform, lab coat, or disposable lab wear.		
<b>Work / Hygienic Practices:</b> 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.		

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Acumedia 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.