

MATERIAL SAFETY DATA SHEET

| Section I – Product Information | | | | | |
|------------------------------------|--|----------|-----------------------|--|--|
| Product Name or Identity: | Buffered Listeria Enrichment Broth Base | | | | |
| Manufacturer's Name: | Acumedia Manufacturers, Inc. Emergency Phone No. 5 | | 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: | OSHA PEL | ACGIH TLV | Toxicity Data LD ₅₀ | | | |
| (Specific Chemical Identity: Common Names) | (Permissible | (Threshold | _ | | | |
| | Exposure Limits) | Limit Value) | | | | |
| Sodium Chloride, NaCl | 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) | Specific Gravity (H ₂ O = 1): 2.16 g/cm ³ (Sodium Chloride) 1.67 g/cm ³ (Sodium Phosphate) | | | |
| Vapor Pressure (mm Hg.): 1.0 @ 865°C (Sodium Chloride) | Melting Point: 804°C (Sodium Chloride) 240°C (Sodium Phosphate) | | | |
| Vapor Density (AIR = 1): 4.9 g/l (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 (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 ₂ , extinguishing powder, or water spray | | | | | |
| Special Fire Fighting Procedures: Fight large protective equipment and self-contained breathing | per fires with water or alcohol resistant foam. Firefighters should wear | | | | |

| Section V – Reactivity Data | | | | | |
|-----------------------------|---|--|---|--|--|
| Stability: | Unstable | ble Conditions to Avoid: Stable under ordinary conditions of use and storage. Hygroscopic. Protect from moisture. | | , | |
| | Stable | Х | | | |
| Incompatibil | Incompatibility (Materials to Avoid): Reacts with acids, alkalis, oxidizing agents, Lithium, and Bromine trifluoride. | | | | |
| Hazardous Doxide. | Hazardous Decomposition or Byproducts: When heated to above 801°C it emits toxic fumes of chloride and sodium oxide. | | | | |
| Hazardous Polymerizati | May Occ | ur | | Conditions to Avoid: Incompatible materials. | |
| | Will Not | Occur | Х | | |

| Section VI – Health Hazard Data | | | | | | |
|---|---|-----------|----------------|--|--|--|
| Route(s) of Ent | ry: Inhalation? Yes | Skin? Yes | Ingestion? Yes | | | |
| Health Hazards: Irritant. Irritating to eyes, respiratory system, and skin. (Acute and Chronic) | | | | | | |
| Carcinogenicity: NTP? No IARC Monographs? No (National Toxicology Program) IARC Monographs? No (International Agency for Research in Cancer) | | | | | | |
| Signs and Symptoms of Exposure: Irritant to skin and mucous membranes. Irritating effect to eye. May cause irritation if absorbed through the skin. Sodium Phosphate is a corrosive material and can cause burns. Sensitization possible through skin contact and inhalation. Medical Conditions Generally Aggravated by Exposure: If ingested, large doses can cause vomiting, diarrhea, and prostration. Chronic exposure of Sodium Phosphate may sequester calcium and cause calcium phosphate deposits in the kidneys. | | | | | | |
| Emergency / First Aid Procedures: | Ingestion: If swallowed, seek medical attention. Inhalation: Supply fresh air or oxygen. Seek medical attention. | | | | | |
| i roccaures. | 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. Seek medical attention if irritation develops. | | | | | |

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 | | | | | |
|---|-----------------------------|---|--|--|--|
| 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 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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