



MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information

Product Name or Identity:	Demi-Fraser Broth Base		
Manufacturer's Name:	Acumedia Manufacturers, Inc.	Emergency Phone No.:	517/372-9200
	740 East Shiawassee	Fax No.:	517/372-0108
	Lansing, Michigan 48912	e-mail:	foodsafety@neogen.com
Date Prepared or Revised:	August 2012		

Section 2. Composition / Information on Hazardous Ingredients

Hazardous Components: Specific Chemical Identity:	CAS-No.	%	EG-Number	Hazard Symbol
Lithium Chloride	7447-41-8	5.5%	231-212-3	Xn (Harmful)
Potassium Phosphate	7758-11-4	2.5%	231-834-5	Xi (Irritant)
Sodium Chloride, (NaCl)	7647-14-5	36.4%	231-598-3	Xi (Irritant)
Sodium Phosphate	7558-79-4	17.5%	231-448-7	Xi (Irritant)

Section 3. Health Hazard Identification

Health Hazards: (Acute and Chronic)	Information pertaining to particular dangers for man and environment: R 22 Harmful if swallowed R 36 / 37 / 38 Irritating to eyes, respiratory system, and skin
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Section 4. First Aid Measures

Emergency / First Aid Procedures:	General Information: Symptoms of poisoning may occur after several hours; provide medical observation for at least 48 hours after exposure.
	Ingestion: If swallowed, seek medical attention immediately. Show physician product label or MSDS.
	Inhalation: If inhaled, supply fresh air or oxygen. Seek medical attention if breathing becomes labored or difficult.
	Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.
	Skin Contact: Remove contaminated clothing immediately. Wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Seek medical attention if irritation develops.

Section 5. Fire and Explosion Hazard Data

Flash Point (Method Used): Closed Cup: N/A	Flammable Limits: LEL – N/A, UEL – N/A
Extinguishing Media: Use CO ₂ , ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam.	
Protective Equipment: No special measures required.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases may be produced.	

Section 6. Accidental Release Measures

Personal Precautions: Wear suitable protective clothing. Remove contaminated clothing immediately. Avoid inhalation, contact with eyes and skin. Prevent formation of dust.
Environmental Precautions: Prevent dispersion of material. Wipe up with damp sponge or mop.
Clean-up Methods: Absorb material, ventilate area, and wash spill site after material has been cleaned up.



Section 7. Handling and Storage

Handling: Protect against physical damage. Ensure good ventilation / exhaust.

Storage: Requirements to be met by storerooms and receptacles: 2 - 30°C.

Do not store together with oxidizing agents or acidic materials. Store in cool, dry conditions in well sealed containers.

Other Precautions: Keep respiratory protective device available.

Section 8. Exposure Controls / Personal Protection

Components with limit values that require monitoring:

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

OSHA-PEL: N/A

REL: N/A

TLV: N/A

Additional Information: Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing.

Personal Protective Equipment:

Keep away from food, beverages, and feed.
Wash hands before and after entering laboratory.
Immediately remove all contaminated clothing.
Avoid contact with skin and eyes.

Breathing Equipment: In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respiratory.

Hand Protection: Use chemical resistant gloves.

Eye Protection: Wear safety glasses or goggles.

Body Protection: Wear lab coat or other protective work clothing.

Section 9. Physical and Chemical Properties

Appearance and Odor: Homogenous free-flowing powder; light to medium beige.

Boiling Point: Not Determined

Density: Not determined

Auto Igniting: Product is not self-igniting

Solubility in Water: Soluble

Danger of Explosion: Product does not present an explosion hazard.

pH: 7.2 ± 0.2

Section 10. Stability and Reactivity

Stability:

Unstable

Stable

X

Conditions to Avoid: Stable under ordinary conditions of use and storage.

Incompatibility (Materials to Avoid): Incompatible with Bromine trifluoride.

Hazardous Decomposition or Byproducts: Hydrogen chlorine.

Hazardous Polymerization:

May Occur

Will Not Occur

X

No dangerous reactions known.

**Section 11. Toxicological Information****LD/LC50 values that are relevant:**LD₅₀ : ORL-RAT, 526 mg/kg, Lithium chloride (7447-41-8)**Carcinogenicity Classification:****IARC (International Agency for Research on Cancer) – Not Listed****NTP (National Toxicology Program) – Not Listed****Irritant:** Irritant to eyes, skin, and mucous membranes.**Sensitization:** No sensitizing effects know.**Subacute to chronic toxicity:** Target organs: Respiratory tract, eyes, kidneys, and skin.**Additional toxicological information:** Harmful. Lithium chloride has shown some evidence of reproductive effects in laboratory animals. Investigated as a tumorigen.**Section 12. Ecological Information****Ecotoxicity Tests:** Water Hazard Class 1: Slightly hazardous for water. The ecological effects have not been thoroughly investigated, but currently none have been identified.**Section 13. Disposal Considerations****Waste Disposal Method:** Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations. Keep waste separate, must not be disposed of with solid waste.

RCRA Hazardous Waste: No

Contact a licensed professional waste disposal service to dispose of this material if questions arise.

Container Information: Do not remove labels from containers until they have been cleaned.**Section 14. Transport Information****DOT Regulations:** Not Regulated**Land Transport ADR/RID (cross-border):** Not Regulated**Maritime Transport IMDG:** Not Regulated**Marine Pollutant:** No**Air Transport ICAO-TI and IATA-DGR:** Not Regulated**Section 15. Regulatory Information****EU Regulations, Hazard Symbol(s):****Lithium Chloride:** Xn (Harmful)**Potassium Phosphate:** Xi (Irritant)**Sodium Chloride:** Xi (Irritant)**Sodium Phosphate:** Xi (Irritant)**Risk Phrases:**

R 22 / 36 / 37 / 38, Harmful if swallowed. Irritating to eyes, respiratory system, and skin.

Safety Phrases:

S 26 / 36 / 37 / 39, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye protection.

S 22 / 24 / 25, Avoid contact with skin and eyes. Do not breathe dust.

Section 16. Other Information

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