



MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information

Product Name or Identity:	Baird Parker Agar		
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:	November 2007		

Section 2. Composition / Information on Hazardous Ingredients

Hazardous Components Specific Chemical Identity:	CAS-No.	%	EG-Number	Hazard Symbol
Lithium Chloride	7447-41-8	8.3%	231-212-3	Xn (Harmful)
Sodium Pyruvate, Pyruvic acid sodium salt	113-24-6	16.7%	204-024-4	Xi (Irritant)

Section 3. Health Hazard Identification

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards: (Acute and Chronic)	HARMFUL. Harmful if swallowed, inhaled, or absorbed through the skin. Irritating to eyes, respiratory system, and skin. Skin irritation may be severe. Lithium Chloride may affect central nervous system.		
Carcinogenicity:	IARC Monographs? No	OSHA Regulated? No	
Signs and Symptoms of Exposure: Lithium Chloride can affect the central nervous system, respiratory system, muscles and kidneys. Irritant to skin and mucous membranes. Irritating effect on the eyes, can cause redness and pain. Dermatitis may develop after long exposure with this product. Irritant if inhaled, coughing possible and breathing difficulties may be observed.			
Medical Conditions Generally Aggravated by Exposure: Lithium Chloride causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting, and diarrhea. Persons with pre-existing skin disorders, impaired liver, kidney, or respiratory function may be more susceptible to the effects of the substance. Chronic exposure can cause dermatitis. May be harmful if inhaled, causing respiratory tract irritation.			

Section 4. First Aid Measures

Emergency / First Aid Procedures:	Ingestion: If swallowed, wash out mouth with water, provided person is conscious. Never give anything by mouth to an unconscious person. Seek medical attention.
	Inhalation: If inhaled, supply fresh air or oxygen. Seek medical attention. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen.
	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. Seek medical attention. Wash clothing before reuse.

Section 5. Fire and Explosion Hazard Data

Flash Point (Method Used): N/A	Flammable Limits: LEL – N/A UEL – N/A
Extinguishing Media: Use alcohol foam, dry chemical, or carbon dioxide. Water may be ineffective.	
Special Fire Fighting Procedures: Firefighters should wear protective equipment and self-contained breathing apparatus. Emits toxic fumes under fire conditions.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases are produced. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.	

Section 6. Accidental Release Measures

Personal Precautions: Shut off all sources of ignition, ventilate spill area. Wear suitable protective clothing, gloves, and eye protection. Wear self-containing breathing apparatus, rubber boots, and heavy rubber gloves. Place contaminated material in a chemical waste container. Prevent direct contact with skin, eyes, or clothing.

Environmental Precautions: Prevent dispersion of material. Do not allow to enter drains or water courses. Water runoff can cause environmental damage.

Clean-up Methods: Contact safety officer and ventilate area. Absorb spill with inert material, including dry-lime, sand, or soda ash, then place into a chemical waste container using non-sparking tools. Wash spill site.

Section 7. Handling and Storage

Handling: Protect against physical damage. Ensure good ventilation / exhaustion. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched.

Storage: Keep container tightly closed. Keep away from incompatible material. Storage area should be cool, dry and well ventilated. Containers of this material may be hazardous when empty since they retain product residues.

Other Precautions: Remove contaminated clothing immediately. Ensure good ventilation. Prevent dust formation.

Section 8. Exposure Controls / Personal Protection

OSHA-PEL: 15 mg (total dust) (Lithium Chloride)

ACGIH TLV: N/A

Engineering Measures: Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Proper ventilation, safety shower, and eye bath required.

Respiratory Protection (Specify Type): With sufficient ventilation, breathing apparatus is not necessary. In the event of possible spill / exposure, use dust mask to EN 149 FFP2S.

Ventilation: Local Exhaust: 50 – 100 CFM

Special: Safety shower and eye wash.

Protective Gloves: Compatible chemical-resistant gloves.

Eye Protection: Safety glasses or chemical goggles to EN 166, 167, and 168.

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

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

Section 9. Physical and Chemical Properties

Boiling Point: 1360°C (Lithium Chloride)

Specific Gravity: 2.070 g/cm³ (Lithium Chloride)

Vapor Pressure: 1 mm @ 547°C (Lithium Chloride)

Melting Point: 605°C (Lithium Chloride), 300°C (Sodium Pyruvate)

Vapor Density (AIR = 1): N/A

Solubility in Water: Soluble (Lithium Chloride), Soluble (Sodium Pyruvate)

Appearance and Odor: Crystalline, white, odorless (Lithium Chloride), White powder, odorless (Sodium Pyruvate).

Section 10. Stability and Reactivity

Stability:	Unstable		
	Stable	X	Conditions to Avoid: Avoid excessive heat. Stable under recommended storage conditions.

Incompatibility (Materials to Avoid): Incompatible with strong oxidizing agents, strong acids, and Bromine trifluoride.

Hazardous Decomposition or Byproducts: Hydrogen chloride gas and Lithium oxide.

Hazardous Polymerization:	May Occur		
	Will Not Occur	X	Conditions to Avoid: Heat, moisture, and incompatible materials.

**Section 11. Toxicological Information**

LD₅₀: ORL-RAT, 526 mg/kg, Investigated as a tumorigen, mutagen, and reproductive effector (Lithium Chloride)

Section 12. Ecological Information

Ecotoxicity Tests: LC₅₀ - 96 hrs, 17 mg/L, *Ptychocheilus lucius*, (Lithium Chloride)

Section 13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations. Keep waste separate. Contact a licensed professional waste disposal service to dispose of this material if questions arise. Do not allow product to reach ground water, water bodies, or sewage system.

Container Information: Do not remove labels from containers until they have been cleaned.

Section 14. Transport Information

Lithium Chloride, Sodium Pyruvate:*

UN # --

Class:--

Packing Group: --

Hazard Class: --

IATA: Non-Hazardous for air transport

*These substances are not regulated for transportation.

Section 15. Regulatory Information**EU Regulations****Hazard Symbol(s):**

Lithium Chloride: Xn (Harmful)

Sodium Pyruvate: Xi (Irritant)

Risk Phrases:

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

Safety Phrases:

Lithium Chloride: 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.

Section 16. Other Information

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