



MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	PALCAM Agar Base		
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
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Section II – Hazardous Ingredients / Identity Information			
Hazardous Components: (Specific Chemical Identity: Common Names)	OSHA PEL (Permissible Exposure Limits)	ACGIH TLV (Threshold Limit Value)	Toxicity Data LD ₅₀
Lithium Chloride	N/A	N/A	ORL-RAT, 526 mg/kg
Sodium Chloride, NaCl, Common salt	N/A	N/A	ORL-RAT, 3000 mg/kg

Section III – Physical Characteristics	
Boiling Point: 1360°C (Lithium Chloride) 1413°C (Sodium Chloride)	Specific Gravity (H₂O = 1): 2.16 (Sodium Chloride) 2.07 (Lithium Chloride)
Vapor Pressure (mm Hg.): 865°C (Sodium Chloride)	Melting Point: 804°C (Sodium Chloride), 613°C (Lithium Chloride)
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: Soluble (Lithium Chloride), 35 g/100 g at 0°C (Sodium Chloride)	
Appearance and Odor: White crystals, odorless (Lithium Chloride), White powder, characteristic odor (Sodium Chloride).	

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 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:	Unstable		Conditions to Avoid: Moisture and air sensitive.
	Stable	X	
Incompatibility (Materials to Avoid): Incompatible with strong acids, metals, and oxidizers.			
Hazardous Decomposition or Byproducts: Carbon dioxide (CO ₂), Lithium oxide (LiOx), Phosphorus oxides (POx), Hydrogen chloride (HCl), and Sulfur oxides (SOx).			
Hazardous Polymerization:	May Occur		Conditions to Avoid: Moisture, air and incompatible materials.
	Will Not Occur	X	

Section VI – Health Hazard Data			
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 effects.		
Carcinogenicity:	NTP? No (National Toxicology Program)	IARC Monographs? No (International Agency for Research in Cancer)	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.			
Medical Conditions Generally Aggravated by Exposure: Lithium Chloride causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting, and diarrhea.			
Emergency / First Aid Procedures:	Ingestion: If swallowed, seek medical attention immediately.		
	Inhalation: In case of unconsciousness, place patient on side position for transportation. 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: Immediately wash with plenty of soap and water for at least 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. Remove contaminated clothing immediately. Avoid inhalation of skin, eyes, and clothing.	
Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations.	
Handling and Storing: Keep container tightly closed. Store at < 30°C in cool, dry conditions. Do not store together with oxidizing and acidic materials. Do not store together with alkali material (caustic) or metals. Protect container against physical damage. Containers may be hazardous when empty because they retain product residues.	
Other Precautions: Ensure good ventilation / exhaustion at the workplace. Prevent formation of dust. Avoid dust inhalation. 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: Long sleeve lab coat, safety shower, and eye wash recommended.		
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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