



MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	Pseudomonas Isolation Agar		
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
Date Prepared or Revised: 10/10/04			

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
Magnesium Chloride	N/A	N/A	ORL-RAT, 2800 mg/kg
Potassium Sulfate	N/A	N/A	ORL-RAT, 6600 mg/kg

Section III – Physical Characteristics	
Boiling Point: 1670°C (Potassium Sulfate)	Specific Gravity (H ₂ O = 1): 2.32 g/cm ³ (Magnesium Chloride) 2.66 g/cm ³ (Potassium Sulfate)
Vapor Pressure (mm Hg.): N/A	Melting Point: 714°C (Magnesium Chloride) 1067°C (Potassium Sulfate)
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: 167 g/ 100 mL water at 20°C (Magnesium Chloride), Soluble (Potassium Sulfate)	
Appearance and Odor: Colorless crystals or flakes, odorless (Magnesium Chloride). White powder (Potassium Sulfate).	

Section IV – Fire and Explosion Hazard Data	
Flash Point (<i>Method Used</i>): 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: Stable under ordinary conditions of use and storage. By strong ignition, Magnesium Chloride is converted into oxychloride. Hygroscopic.
	Stable	X	
Incompatibility (<i>Materials to Avoid</i>): Strong oxidizing agents. When Magnesium Chloride is mixed with limited amount of water, enough heat may be generated to cause frothing.			
Hazardous Decomposition or Byproducts: When heated to decomposition, Magnesium Chloride emits corrosive hydrochloric acid vapor. When heated to temperatures above 300°C it emits toxic fumes of chlorine gas.			
Hazardous Polymerization:	May Occur		Conditions to Avoid: Heat, moisture, 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)	Irritant. Irritating to eyes, respiratory system, and skin. May be harmful if swallowed.		
Carcinogenicity:	NTP? No (National Toxicology Program)	IARC Monographs? No (International Agency for Research in Cancer)	OSHA Regulated? No
Signs and Symptoms of Exposure: Inhalation of dust may cause irritation to mucous membranes and upper respiratory tract. May be harmful if absorbed through the skin, irritation may develop.			
Medical Conditions Generally Aggravated by Exposure: Magnesium salts are slowly absorbed, therefore abdominal pain, vomiting and diarrhea may be the only symptoms. If elimination is blocked by bowel blockage or other reasons, CNS depression, lack of reflexes, or hypocalcemia may occur.			
Emergency / First Aid Procedures:	Note to Physician: IV administration of calcium gluconate will partially reverse the effects of acute magnesium toxicity. Ventricular support with calcium chloride infusion and mannitol forced diuresis has also been successful.		
	Ingestion: If swallowed, seek medical attention immediately.		
	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. 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 and physical damage. Store away from incompatible materials. Containers of this material may be hazardous when empty since they retain product residues.
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.		

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.