



MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	Fungisel 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:	
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
Chloramphenicol	N/A	N/A	ORL-RAT, 2500 mg/kg
Cycloheximide	N/A	N/A	ORL-RAT, 2 mg/kg

Section III – Physical Characteristics	
Boiling Point: 2 g/l (Cycloheximide)	Specific Gravity (H₂O = 1): N/A
Vapor Pressure (mm Hg.): Negligible	Melting Point: 119°C (Cycloheximide), 151°C (Chloramphenicol)
Vapor Density (AIR = 1): 11.1 (Chloramphenicol)	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: 2.5 mg/ml at 25°C (Chloramphenicol)	
Appearance and Odor: Solid, light beige. Characteristic odor. (Chloramphenicol) White, crystalline powder w/musky odor. (Cycloheximide)	

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: Use sand, carbon dioxide or powdered extinguishing agent. Never use water.	
Special Fire Fighting Procedures: Fight larger fires with alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus. Remove contaminated clothing immediately.	
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: No decomposition if used according to specifications.
	Stable	X	
Incompatibility (Materials to Avoid): Incompatible materials include acid chlorides, acid anhydrides, bases and oxidizers.			
Hazardous Decomposition or Byproducts: Chlorine (Cl), Carbon monoxide (CO), Carbon dioxide (CO ₂) and Nitrogen oxides (NO _x).			
Hazardous Polymerization:	May Occur		Conditions to Avoid: Decomposes by alkalis.
	Will Not Occur	X	

Section VI – Health Hazard Data			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards: (Acute and Chronic)	Toxic. Toxic if swallowed, inhaled, or absorbed through the skin. Irritating to eyes, respiratory system, and skin. Possible risk of harm to unborn child. Possible carcinogen.		
Carcinogenicity: (National Toxicology Program)	NTP? No	IARC Monographs? Group 2a The agent is probably carcinogenic to humans. (International Agency for Research in Cancer)	OSHA Regulated? No
Signs and Symptoms of Exposure: Irritant to skin, dermatitis, and mucous membranes. Irritating effect to eye. Allergic reactions in hypersensitive persons. Symptoms of poisoning may even occur after several hours; therefore medical observation is necessary for at least 48 hours after the accident. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.			
Medical Conditions Generally Aggravated by Exposure: Possible risk of irreversible effects. Irritation, nausea, vomiting diarrhea, tremors, salivation and melena are signs of overexposure.			
Emergency / First Aid Procedures:	General Information: Immediately remove contaminated clothing. Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest, provide artificial respiration.		
	Ingestion: If swallowed, seek medical attention immediately.		
	Inhalation: Supply fresh air or oxygen. Seek medical attention immediately. In case of unconsciousness, place patient on side position for transportation.		
	Eye Contact: Rinse opened eye for 15 minutes under running water. Seek medical attention.		
Skin Contact: Wash with plenty of soap and water for at least 15 minutes.			

Section VII – Precautions for Safe Handling and Use	
Accidental Release Measures: Wear suitable protective clothing. Keep respiratory protective device available. Remove contaminated clothing immediately. In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.	
Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations. This product should be disposed of in a special hazardous waste collection container.	
Handling and Storing: Keep container tightly closed. Protect from moisture and physical damage. Store away from oxidizing, acidic agents, and alkali material (caustic). Keep receptacle tightly sealed. Store only in the original receptacle.	
Other Precautions: Prevent formation of dust. Do not breathe dust. Ensure good ventilation / exhaustion at the workplace. Prevent 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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