



MATERIAL SAFETY DATA SHEET

Section I – Product Information

Product Name or Identity:	Campy Cefex Agar (U.S. Patent 5, 891, 709)		
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:	June 19, 2007		

Section II – Hazardous Ingredients / Identity Information

Hazardous Components: (Specific Chemical Identity)	OSHA PEL (Permissible Exposure Limits)	ACGIH TLV (Threshold Limit Value)	Toxicity Data LD₅₀
Cycloheximide	N/A	N/A	ORL-RAT, 2 mg/kg
Sodium Pyruvate	N/A	N/A	N/A
Ferrous Sulfate	N/A	1 mg/m ³	ORL-MSE, 1520 mg/kg
Sodium Chloride (NaCl)	N/A	N/A	ORL-RAT, 3000 mg/kg

Section III – Physical Characteristics

Boiling Point: 2 g/l (Cycloheximide), 1413 °C (NaCl)	Specific Gravity (H₂O = 1): 1.89 (Ferrous Sulfate), 2.16 (NaCl)
Vapor Pressure (mm Hg.): 14.6 @ 25 °C (Ferrous Sulfate) 1.0 @ 865 °C (NaCl)	Melting Point: 119°C (Cycloheximide), >300°C (Sodium Pyruvate) 801 °C (NaCl)
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: Slightly soluble in water (Cycloheximide), Soluble (Sodium Pyruvate)	
Appearance and Odor: White, crystalline powder w/musky odor. (Cycloheximide), Solid crystals (Ferrous Sulfate) White powder, solid (Sodium Pyruvate), Colorless crystals or white powder, characteristic odor (NaCl)	

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. As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.	
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 V – Reactivity Data

Stability:	Unstable		Conditions to Avoid: Stable under normal conditions of storage and use.
	Stable	X	
Incompatibility (Materials to Avoid): Incompatible materials include acid chlorides, acid anhydrides, bases, and stronger oxidizers.			
Hazardous Decomposition or Byproducts: Chlorine (Cl), Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides, Iron oxides, and Nitrogen oxides (NOx).			
Hazardous Polymerization:	May Occur		Conditions to Avoid: Incompatible materials, moisture, and 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. Cycloheximide may be fatal swallowed. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause harm to unborn child.		
Carcinogenicity:	NTP? No (National Toxicology Program)	IARC Monographs? No (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.			
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, wash out mouth with water provided person is conscious. 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 at least 15 minutes under running water, lifting upper and lower lids. Seek medical attention.		
	Skin Contact: 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. Keep respiratory protective device available. Remove contaminated clothing immediately. In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. Avoid inhalation, contact with eyes, skin, and clothing.	
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 properly labeled.	
Handling and Storing: Keep container tightly closed. Protect from moisture. Store away from oxidizing, acidic agents, and alkali material (caustic). Keep receptacle tightly sealed. Store only in the original receptacle. Containers of this material may be hazardous when empty since they retain product residues.	
Other Precautions: Prevent formation of dust. Do not breathe 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: Long-sleeved 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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