MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
Product Name or Identity:	**MacConkey Agar with Sorbitol**		
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: September 2007			

Section 2. Composition / Information on Ingredients				
Hazardous Components Specific Chemical Identity:	**CAS-No.**	**%**	**EG-Number**	**Hazard Symbol**
Sodium Chloride, NaCl	7647-14-5	10%	231-598-3	Xi (Irritant)
Bile Salts Mixture	N/A	3%	N/A	Xi (Irritant)

Section 3. Health Hazard Identification			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards: *(Acute and Chronic)*	IRRITANT. Irritating to eyes, respiratory system, and skin.		
Carcinogenicity:	IARC Monographs? No	OSHA Regulated? No	
Signs and Symptoms of Exposure: Irritant if inhaled, coughing possible and breathing difficulties may be observed. Symptoms of ingestion can include nausea and vomiting. Can result in mild irritation if contact with skin for several hours. Contact with eye causes irritation, redness, and pain.			
Medical Conditions Generally Aggravated by Exposure: Chronic exposure can cause dermatitis. May be harmful if inhaled, or swallowed. May be harmful if absorbed through the skin. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.			

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. The product itself does not burn.	
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.
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		
OES: N/A		**ACGIH TLV:** N/A
Engineering Measures: Respiratory protection is not required. 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: 1461°C (Sodium Chloride)	**Specific Gravity:** 2.16 g/cm^3 (Sodium Chloride)
Vapor Pressure: 1 mm at 865°C (Sodium Chloride)	**Melting Point:** 804 °C (Sodium Chloride)
Vapor Density (AIR = 1): N/A	**Solubility in Water:** Partly Soluble (Sodium Chloride)
Appearance and Odor: Solid, colorless or white, odorless (Sodium Chloride)	

Section 10. Stability and Reactivity			
Stability:	Unstable		
	Stable	X	Conditions to Avoid: Stable under recommended storage conditions.
Incompatibility *(Materials to Avoid)***:** Incompatible with strong oxidizing agents.			
Hazardous Decomposition or Byproducts: Sodium oxide and Hydrogen chloride gas.			
Hazardous Polymerization:	May Occur		
	Will Not Occur	X	Conditions to Avoid: Incompatible materials.

Section 11. Toxicological Information

LD_{50}: ORL-RAT, 3000 mg/kg (Sodium Chloride)

Section 12. Ecological Information

Ecotoxicity Tests: LC_{50} / 96h, 1,294.6 mg/L, *Lepomis macrochirus* (Bluegill) (Sodium 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

Sodium Chloride,* Bile Salts Mixture*:
*Not Regulated. This substance is considered to be non-hazardous for transportation.

Section 15. Regulatory Information

EU Regulations

Hazard Symbol(s):

Sodium Chloride: Xi (Irritant)

Bile Salts Mixture: Xi (Irritant)

Risk Phrases:

Sodium Chloride: R 36 / 38, Irritating to eyes and skin.

Bile Salts Mixture: R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.

Safety Phrases:

Sodium Chloride: S 24 / 25 / 26, Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medial advice.

Bile Salts Mixture: S 24 / 25 / 26, Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Section 16. Other Information

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