MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
Product Name or Identity:	**Simmons Citrate Agar**		
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: December 2008		**Chemtrec: (800) 424-9300** **Outside US and Canada: (703) 527-3887**	

Section 2. Composition / Information on Hazardous Ingredients			
This product is a mixture of the substances listed below with the addition of nonhazardous materials.			
Hazardous Components Specific Chemical Identity:	**CAS-No.**	**%**	**Hazard Symbol**
Sodium Chloride (NaCl)	7647-14-5	20.7%	Xi (Irritant)
Potassium Phosphate	7758-11-4	4.1%	Xi (Irritant)
Sodium Citrate	68-04-2	8.3%	Xi (Irritant)

Section 3. Health Hazard Identification	
Health Hazards: *(Acute and Chronic)*	**Information pertaining to particular dangers for man and environment.** R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.

Section 4. First Aid Measures	
Emergency / First Aid Procedures:	**General Information:** No special measures required.
	Ingestion: If swallowed, seek medical attention if symptoms occur. Show physician product label or MSDS.
	Inhalation: If inhaled, supply fresh air or oxygen. Seek medical attention if breathing becomes labored or difficult.
	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. 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 CO_2, ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam.	
Protective Equipment: No special measures required.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases may be produced.	

Section 6. Accidental Release Measures
Personal Precautions: Wear suitable protective clothing. Remove contaminated clothing. Ensure good ventilation / exhaustion at the workplace.
Environmental Precautions: Prevent dispersion of material. Wipe up with damp sponge or mop.
Clean-up Methods: Avoid prolonged or repeated exposure. Absorb material, ventilate area, and wash spill site after material has been cleaned up. Avoid inhalation, contact with eyes and skin. Prevent formation of dust.

Section 7. Handling and Storage
Handling: Protect against physical damage. Ensure good ventilation / exhaustion. Prevent formation of dust.
Storage: Requirements to be met by storerooms and receptacles: 2 -8°C. Do not store together with oxidizing agents and acidic materials. Store in cool, dry conditions in well sealed containers.
Other Precautions: No special measures required.

Section 8. Exposure Controls / Personal Protection		
Components with limit values that require monitoring: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.		
OSHA–PEL: N/A	**REL:** N/A	**TLV:** N/A
Additional Information: Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing.		
Personal Protective Equipment: Keep away from food, beverages, and feed. Wash hands before and after entering laboratory. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes and skin **Breathing Equipment:** In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respiratory. **Hand Protection:** Use chemical resistant gloves. **Eye Protection:** Wear safety glasses and goggles. **Body Protection:** Wear lab coat or other protective work clothing.		

Section 9. Physical and Chemical Properties	
Appearance and Odor: Homogenous powder, yellow with green tinge to green with yellow tinge.	
Boiling Point: Not determined	**Density:** Not determined
Flash Point: Not applicable	**Melting Point:** Not determined
Auto Igniting: Product is not self-igniting	**Solubility in Water:** Insoluble
Danger of explosion: Product does not present an explosion hazard.	**pH:** 6.9 ± 0.2 @ 25°C
Solvent Content: Organic solvents – 0.0%	**Solids Content:** 100.0%

Section 10. Stability and Reactivity			
Stability:	Unstable		
	Stable	X	Conditions to Avoid: No decomposition if used according to specifications.
Incompatibility *(Materials to Avoid)*: Incompatible with strong oxidizing agents.			
Hazardous Decomposition or Byproducts: Chlorine (Cl) and Phosphorus oxides (POx).			
Hazardous Polymerization:	May Occur		
	Will Not Occur	X	No dangerous reactions known.

Section 11. Toxicological Information

LD/LC50 values that are relevant: N/A

Carcinogenicity Classification:
IARC (International Agency for Research on Cancer) - Not listed
NTP (National Toxicology Program) - Not listed

Irritant: Irritant to eyes, skin, and mucous membranes.
Sensitization: No sensitizing effects known.
Subacute to chronic toxicity: Target organs: Respiratory tract, eyes, kidneys and skin.
Additional toxicological information: Irritant.

Section 12. Ecological Information

Ecotoxicity Tests:
Not known to be hazardous to water. The ecological effects have not been thoroughly investigated, but currently none have been identified.

Section 13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations. Smaller quantities can be disposed of with solid waste.
RCRA Hazardous Waste: No
Contact a licensed professional waste disposal service to dispose of this material if questions arise.

Container Information: Do not remove labels from containers until they have been cleaned.

Section 14. Transport Information

DOT Regulations:
Not Regulated

Land Transport ADR/RID (cross-border):
Not Regulated

Maritime Transport IMDG:
Not Regulated

Marine Pollutant: No

Air Transport ICAO-TI and IATA-DGR:
Not Regulated

Section 15. Regulatory Information

EU Regulations, Hazard Symbol(s):

Sodium Chloride: Xi (Irritant)

Potassium Phosphate: Xi (Irritant)

Sodium Citrate: Xi (Irritant)

Risk Phrases:

R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.

Safety Phrases:

S7, Keep container tightly closed.

S 22, Do not breathe dust.

S 26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36, Wear suitable protective clothing.

Section 16. Other Information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Acumedia Manufacturers, Inc. 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.