

MATERIAL SAFETY DATA SHEET

Section I – Product Information					
Product Name or Identity:	Simmons Citrate Agar				
Manufacturer's Name:	Acumedia Manufacturers, Inc. Emergency Phone No. 517/372-9200		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					

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	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
Sodium Chloride, NaCl	N/A	N/A	ORL-RAT, 3000 mg/kg
Sodium Citrate	N/A	N/A	N/A
Potassium Phosphate	N/A	N/A	SKN-RBT, > 4640 mg/kg

Section III – Physical Characteristics				
Boiling Point: 1413°C (NaCl)	Specific Gravity (H ₂ O = 1): 1.7 (Sodium Citrate), 2.16 (NaCl)			
Vapor Pressure (mm Hg.): N/A	Melting Point: 150°C (Sodium Citrate), > 465°C (Potassium Phosphate), 804°C (NaCl)			
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): N/A			
Solubility in Water: 72 g/100 g of water (Sodium Citrate), 150 g/ 100 g cold water (Potassium Phosphate)				
Appearance and Odor: White crystals, odorless (Sodium Citrate), White crystals or powder, odorless (Potassium Phosphate),				

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: 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. 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: Protect from light and moisture. Hygroscopic.		
	Stable	Х		
Incompatibility (Materials to Avoid): Reacts with acids, alkalis, and oxidizing agents.				
Hazardous Decomposition or Byproducts: Acids, Phosphorus oxides, Nitrogen oxides, Carbon monoxide (C0),				
Carbon dioxid	Carbon dioxide (CO ₂), and Sodium oxide may form when heated to decomposition.			
Hazardous	May Occ	ur		Conditions to Avoid: Heat, flame, ignition sources, dust and incompatible
Polymerizati	on:			materials.
	Will Not (Occur	Х	

Product # (s) 7156

Section VI – Health Hazard Data						
Route(s) of Entr	y: Inhalation? Yes	Skin? Yes	Ingestion? Yes			
Health Hazards: (Acute and Chror						
Carcinogenicity	: NTP? No (National Toxicology Program)	IARC Monographs? No (International Agency for Research in Cancer)	OSHA Regulated? No			
Inhalation of larg with moist or sense Medical Condition tract. The toxicity	e amounts of dust may cause irritat sitive areas of the skin. ons Generally Aggravated by Exp of phosphates is their ability to se	ses are ingested, can cause vomiting, ion to the respiratory tract. Possible irrita cosure: May be irritating to mucous m equester calcium. Chronic exposure of p	ation on prolonged contac			
calcium and caus	e calcium phosphates deposits in the Ingestion: If swallowed, seek medic	-				
First Aid Procedures:	Inhalation: Supply fresh air or oxygen. Seek medical attention.					
-	Eye Contact: Rinse opened eye for at least 15 minutes under running water. Seek medical attenti					
-	Skin Contact: Wash with plenty of soap and water for 15 minutes. If irritation develops, seek medical					

Section VII – Precautions for Safe Handling and Use

Accidental Release Measures: Ventilate spill area. Avoid raising dust. Wear suitable protective clothing. Wipe up with damp sponge or mop. Avoid contact with skin, eyes, 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. Suitable for any general chemical storage area. Store away from oxidizing agents. 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 airbo 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			
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Other Protective Clothing or Equipment: Uniform, lab coat, or disposable lab wear.

attention.

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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