



MATERIAL SAFETY DATA SHEET

Section I – Product Information

Product Name or Identity:	XLD 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:	foodsafety@neogen.com
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) TWA (ppm/mg/m ³)	Toxicity Data LD₅₀
Sodium Thiosulfate, Sodium hyposulfite	N/A	N/A	IPR-MUS, 5200 mg/kg
Ferric Ammonium Citrate	N/A	1 mg/m ³	N/A
Sodium Chloride, NaCl	N/A	N/A	ORL-RAT, 3000 mg/kg
Sodium Deoxycholate	N/A	N/A	N/A

Section III – Physical Characteristics

Boiling Point: 7100°C (Sodium Thiosulfate), 1413°C (NaCl)	Specific Gravity (H₂O = 1): 2.16 (NaCl)
Vapor Pressure (mm Hg.): 1.0 @ 865°C (NaCl)	Melting Point: >100°C (Sodium Thiosulfate), 804°C (NaCl) 300°C (Sodium Deoxycholate)
Vapor Density (AIR = 1): 1.667 g/cm (Sodium Thiosulfate)	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: 50 g/100 ml water (Sodium Thiosulfate), 35.7 g/ 100 g at 0°C (NaCl), Soluble at 20°C (Sodium Deoxycholate)	
Appearance and Odor: Clear liquid. (Sodium Thiosulfate), Green crystals, solid. (Ferric Ammonium Citrate) 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: 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.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases are produced. Closed containers exposed to heat may explode.	

Section V – Reactivity Data

Stability:	Unstable		Conditions to Avoid: Keep away from heat and light. Decomposed by heat; reduces to ferrous salt by light. Stability limited in solution.
	Stable	X	
Incompatibility (Materials to Avoid): Incompatible with strong acids, oxidizers, iodine, mercury, sodium nitrate and halogens. Reacts with acids to release sulfur dioxide.			
Hazardous Decomposition or Byproducts: Carbon dioxide (CO ₂), Sulfur oxides (SO _x), Nitrogen oxides (NO _x), Ammonia (NH ₄) and Carbon monoxide (CO) and Chlorine (Cl).			
Hazardous Polymerization:	May Occur		Conditions to Avoid: Heat and incompatible materials.
	Will Not Occur	X	

Section VI – Health Hazard Data			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards: (Acute and Chronic)	Irritant. Irritating to eyes, respiratory system, and skin.		
Carcinogenicity:	NTP? No (National Toxicology Program)	IARC Monographs? No (International Agency for Research in Cancer)	OSHA Regulated? No
Signs and Symptoms of Exposure: If inhaled, may result in coughing and shortness of breath. Low level of toxicity by ingestion. Diarrhea may occur by ingestion of large quantities. May be harmful if swallowed or inhaled.			
Medical Conditions Generally Aggravated by Exposure: Chronic exposure may cause skin effects.			
Emergency / First Aid Procedures:	Ingestion: If swallowed, seek medical attention immediately.		
	Inhalation: Supply fresh air or oxygen, seek medical attention. In case of unconsciousness, place patient on side position for transportation.		
	Eye Contact: Rinse opened eye for at least 15 minutes under running water. 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. Flush spill area with water, wipe up with damp sponge or mop. Avoid contact with eyes, skin, and clothing.
Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations.
Handling and Storing: Keep container tightly closed, stored in a cool, dry ventilated area. Protect from moisture. Protect container against physical damage. Store away from oxidizing agents. Do not store together with acids.
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 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: Uniform, lab coat, or disposable lab wear.		
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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