



MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	Lysine Iron 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
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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
Ferric Ammonium Citrate	N/A	1 mg/m ³ (soluble iron salt)	N/A

Section III – Physical Characteristics	
Boiling Point: N/A	Specific Gravity (H₂O = 1): N/A
Vapor Pressure (mm Hg.): N/A	Melting Point: N/A
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: Very soluble in water.	
Appearance and Odor: Green or red-brown powder, odorless to slight ammonia odor.	

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. Remove contaminated clothing immediately.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases are produced. As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.	

Section V – Reactivity Data			
Stability:	Unstable		Conditions to Avoid: Stable under ordinary conditions of use and storage. Reduced to ferrous salt by exposure to light. Very deliquescent, forms a solution on prolonged exposure to air.
	Stable	X	
Incompatibility (Materials to Avoid): Iodides, acacia preparations, and tannins.			
Hazardous Decomposition or Byproducts: Burning may produce Carbon monoxide, Carbon dioxide, and Nitrogen oxides.			
Hazardous Polymerization:	May Occur		Conditions to Avoid: Heat, light, moisture, 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. May be harmful if swallowed.		
Carcinogenicity:	NTP? No (National Toxicology Program)	IARC Monographs? No (International Agency for Research in Cancer)	OSHA Regulated? No
Signs and Symptoms of Exposure: Ingestion of large doses may cause nausea, vomiting, diarrhea, and black stool. Inhalation of dust may cause irritation to the upper respiratory tract. Mild irritant to skin due to acidic nature of ferric salts. Pink urine discoloration is a strong indicator of iron poisoning. Liver damage has been recorded.			
Medical Conditions Generally Aggravated by Exposure: Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.			
Emergency / First Aid Procedures:	Ingestion: If swallowed, seek medical attention immediately.		
	Inhalation: In case of unconsciousness, place patient on side position for transportation. Supply fresh air or oxygen, seek medical attention immediately.		
	Eye Contact: Rinse opened eye for at least 15 minutes under running water. Seek medical attention immediately.		
	Skin Contact: Immediately 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. Wipe up with damp sponge or mop. Wear suitable protective clothing, including rubber boots and gloves. Discard clothing after use. Avoid contact with skin, respiratory system, and eyes. Clean up spill area in a manner that does not disperse dust into the air.	
Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations.	
Handling and Storing: Keep container tightly closed. Store in a cool, dry, ventilated area. Protect from physical damage. Containers of this material may be hazardous when empty since they retain product residues.	
Other Precaution: Ensure good ventilation / exhaustion at the workplace. Avoid dust inhalation. 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 measure for handling chemicals / powder. Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with skin, eyes, and clothing.		

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