



MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	KF Streptococcus 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:	10/11/04		

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 Glycerophosphate (B-Glycerophosphate Disodium Hydrate)	N/A	N/A	UNR-RAT, 3.4 g/kg
Sodium Azide	N/A	C 0.29 mg/m ³	ORL-MSE, 27 mg/kg

Section III – Physical Characteristics	
Boiling Point: 1413°C (Sodium Chloride)	Specific Gravity (H₂O = 1): 1.84 (Sodium Azide), 2.16 g/cm ³ (NaCl)
Vapor Pressure (mm Hg.): 1.0 @ 865°C (Sodium Chloride)	Melting Point: 275°C (Sodium Azide), 804°C (Sodium Chloride) 104°C (Sodium Glycerophosphate)
Vapor Density (AIR = 1): 2.2 (Sodium Azide) 10.6 (Sodium Glycerophosphate)	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: 42 g/100 g water @ 17°C (Sodium Azide)	
Appearance and Odor: Light beige solid/powder. Characteristic odor. (Sodium Azide), Colorless crystals. (Sodium Chloride)	

Section IV – Fire and Explosion Hazard Data	
Flash Point (Method Used): Not applicable	Flammable Limits: LEL (Lower Explosive Limits) - N/A UEL (Upper Explosive Limits) - 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. 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	X	Conditions to Avoid: Danger of explosion. Avoid heat, sources of ignition, moisture, shock, and friction.
	Stable		
Incompatibility (Materials to Avoid): Incompatible with strong oxidizing agents, mineral acids, water, halogen acids and halogen compounds, barium carbonate, bromine, carbon disulphide, mercury, dimethyl sulphate, common metals, brass, copper, lead, silver and strong acids. Sodium Azide is a problem with these compounds when accumulated as in sink drains, but not at the concentration used in KF Streptococcus Agar.			
Hazardous Decomposition or Byproducts: Carbon dioxide (CO ₂), Ammonia (NH ₄), Nitrogen oxides (NOx) and Sulfur oxides (SOx), Phosphine, and Phosphorus oxides.			
Hazardous Polymerization:	May Occur		Conditions to Avoid: Contact with acidic solutions and metal compounds over time may form potentially explosive metal azides. Flush with copious amounts of water if any material enters the sanitary sewer system.
	Will Not Occur	X	

Section VI – Health Hazard Data			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards: (Acute and Chronic)	Toxic. Toxic if swallowed, inhaled, or absorbed through the skin. 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: Symptoms of poisoning may occur after several hours of exposure, provide medical observation for at least 48 hours. Ingestion or inhalation of Sodium Azide may be fatal, this compound is readily absorbed through skin. If Sodium Azide is ingested, may cause pulmonary edema and rapid heart beat. May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.			
Medical Conditions Generally Aggravated by Exposure: Sodium Azide may cause irritation to the respiratory tract and mucous membranes, sore throat, coughing, dizziness, and fainting. Sodium Azide may affect central nervous system, kidneys, and cardiovascular system. The toxicological properties of Sodium Glycerophosphate have not been thoroughly investigated.			
Emergency / First Aid Procedures:	Ingestion: If swallowed, seek medical attention immediately. Show physician product label.		
	Inhalation: In case of unconsciousness, place patient on side position for transportation. Supply fresh air or oxygen; seek medical attention immediately. If required, provide artificial respiration. Keep patient warm.		
	Eye Contact: Rinse opened eye for at least 15 minutes under running water. Seek medical attention.		
	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: Remove all sources of ignition. Ventilate area of leak or spill. Wear suitable protective clothing including rubber boots and gloves. Discard clothing after use. Clean up spill that will not disperse dust. Wipe up with damp sponge or mop, and dispose into a properly labeled container.	
Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations.	
Handling and Storing: Keep container tightly closed. Store at < 30°C. Do not store together with oxidizing and acidic materials. Store away from metals, and away from sources of heat and ignition. Protect from moisture. Containers may be hazardous when empty because they retain product residues (dust, solids).	
Other Precautions: Remove contaminated clothing immediately. Wash before reuse. Ensure good ventilation / exhaustion at the workplace. Prevent formation of dust. 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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