



## MATERIAL SAFETY DATA SHEET

Section I – Product Information			
<b>Product Name or Identity:</b>	Bile Esculin Azide Agar		
<b>Manufacturer's Name:</b>	Acumedia Manufacturers, Inc.	<b>Emergency Phone No.:</b>	517/372-9200
	740 East Shiawassee	<b>Fax No.:</b>	517/372-2006
	Lansing, Michigan 48912	<b>e-mail:</b>	foodsafety@neogen.com
<b>Date Prepared or Revised:</b> 10/10/04			

Section II – Hazardous Ingredients / Identity Information			
<b>Hazardous Components:</b> (Specific Chemical Identity: Common Names)	<b>OSHA PEL</b> (Permissible Exposure Limits)	<b>ACGIH TLV</b> (Threshold Limit Value) STEL/C	<b>Toxicity Data LD<sub>50</sub></b>
Oxbile (Oxgall)	N/A	N/A	N/A
Sodium Azide	N/A	C 0.29 mg/m <sup>3</sup>	ORL-MSE, 27 mg/kg

Section III – Physical Characteristics	
<b>Boiling Point:</b> N/A	<b>Specific Gravity (H<sub>2</sub>O = 1):</b> 1.84 (Sodium Azide)
<b>Vapor Pressure (mm Hg.):</b> N/A	<b>Melting Point:</b> 275°C (Sodium Azide)
<b>Vapor Density (AIR = 1):</b> 2.2 (Sodium Azide)	<b>Evaporation Rate (Butyl Acetate = 1):</b> N/A
<b>Solubility in Water:</b> 42 g/100 g water @17°C (Sodium Azide)	
<b>Appearance and Odor:</b> Light beige solid/powder. Characteristic odor. (Sodium Azide)	

Section IV – Fire and Explosion Hazard Data	
<b>Flash Point:</b> (Method Used) Not applicable	<b>Flammable Limits:</b> LEL (Lower Explosive Limits) - N/A UEL (Upper Explosive Limits) - N/A
<b>Extinguishing Media:</b> Suitable extinguishing agents. CO <sub>2</sub> , extinguishing powder, or water spray.	
<b>Special Fire Fighting Procedures:</b> Fight larger fires with water or alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus.	
<b>Unusual Fire and Explosion Hazards:</b> During heating or in case of fire, poisonous gases are produced. Closed containers exposed to heat may explode.	

Section V – Reactivity Data			
<b>Stability:</b>	Unstable	X	Conditions to Avoid: Danger of explosion. Avoid heat, sources of ignition, moisture, shock, and friction.
	Stable		
<b>Incompatibility:</b> (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 Bile Esculin Azide Agar.			
<b>Hazardous Decomposition or Byproducts:</b> Carbon dioxide (CO <sub>2</sub> ), Ammonia (NH <sub>4</sub> ), Nitrogen oxides (NOx) and Sulfur oxides (SOx).			
<b>Hazardous Polymerization:</b>	May Occur		Conditions to Avoid: Contact with acidic solutions and metal compounds over time may form potentially explosive metal azides. Should any of this material be introduced into sanitary sewer system, flush with copious amounts of water.
	Will Not Occur	X	

Section VI – Health Hazard Data			
<b>Route(s) of Entry:</b>	Inhalation? Yes	Skin? Yes	Ingestion? Yes
<b>Health Hazards:</b> (Acute and Chronic)	Toxic. Toxic by inhalation and if swallowed. Sodium azide may be fatal if swallowed or absorbed through the skin. Irritating to eyes, respiratory system, and skin.		
<b>Carcinogenicity:</b>	NTP? No (National Toxicology Program)	IARC Monographs? No (International Agency for Research in Cancer)	OSHA Regulated? No
<b>Signs and Symptoms of Exposure:</b> 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.			
<b>Medical Conditions Generally Aggravated by Exposure:</b> 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.			
<b>Emergency / First Aid Procedures:</b>	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. 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
<b>Accidental Release Measures:</b> 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.
<b>Waste Disposal Method:</b> Dispose in accordance with all applicable federal, state, and local environmental regulations.
<b>Handling and Storing:</b> Keep container tightly closed. Store at < 30°C. Do not store together with oxidizing and acidic materials. Store away from metal, and away from sources of heat and ignition. Protect from moisture. Containers of this material may be hazardous when empty since they retain product residues.
<b>Other Precautions:</b> Ensure good ventilation / exhaustion at the workplace. Avoid prolonged or repeated exposure.

Section VIII – Control Measures		
<b>Respiratory Protection:</b> (Specify Type) None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.		
<b>Ventilation:</b>	Local Exhaust: 50 – 100 CFM	Special: N/A
	Mechanical (General): N/A	Other: N/A
<b>Protective Gloves:</b> Proper disposable gloves		Eye Protection: Chemical resistant safety goggles
<b>Other Protective Clothing or Equipment:</b> Uniform, lab coat, or disposable lab wear.		
<b>Work / Hygienic Practices:</b> 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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