

MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	Bile Esculin Azide Agar		
Manufacturer's Name:	Acumedia Manufacturers, Inc.	Emergency Phone No.:	410/780-5120
	9601 Pulaski Park Drive	Fax No.:	410/780-5470
	Baltimore, Maryland 21220	e-mail:	www.neogen.com
Date Prepared or Revised: 11/30/00			

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

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

Section IV – Fire and Explosion Hazard Data	
Flash Point (<i>Method Used</i>): 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. Closed containers exposed to heat may explode.	

Section V – Reactivity Data			
Stability	Unstable	X	Conditions to Avoid: Danger of explosion. Avoid heat, sources of ignition, moisture, shock, friction.
	Stable		
Incompatibility (<i>Materials to Avoid</i>): 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.			
Hazardous Decomposition or Byproducts: Carbon dioxide (CO ₂), Ammonia (NH ₄), Nitrogen oxides (NO _x), and Sulfur oxides (SO _x).			
Hazardous Polymerization	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			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic)	Harmful. Harmful by inhalation and if swallowed. 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.			
Medical Conditions Generally Aggravated by Exposure: Irritant to skin, eyes and mucous membranes. No sensitizing effects known.			
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. 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.		

Section VII – Precautions for Safe Handling and Use
Accidental Release Measures: Wear suitable protective clothing. Wipe up with damp sponge or mop.
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. Protect from moisture.
Other Precautions: Ensure good ventilation / exhaustion at the workplace.

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
	Mechanical (General): N/A	Other
Protective Gloves: Proper disposable gloves	Eye Protection: 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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