

MATERIAL SAFETY DATA SHEET

Section I – Product Information				
Product Name or Identity:	Tetrathionate Broth Base			
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:	OSHA PEL	ACGIH TLV	Toxicity Data LD ₅₀		
(Specific Chemical Identity: Common Names)	(Permissible	(Threshold Limit			
	Exposure Limits)	Value)			
Sodium Thiosulfate /Sodium Hyposulfite	N/A	N/A	IPR-MUS, 5200 mg/kg		
Calcium Carbonate	15 mg/m ³	10 mg/m ³	ORL-RAT, 6450 mg/kg		
	(total dust)	(inhalable particles)			
Bile Salts No. 3	N/A	N/A	N/A		

Section III – Physical Characteristics				
Boiling Point: 7100°C (Sodium Thiosulfate)	Specific Gravity (H ₂ O = 1): 1.69 g/cm (Sodium Thiosulfate)			
	2.93 g/cm (Calcium Carbonate)			
Vapor Pressure (mm Hg.): N/A	Melting Point: >100°C (Sodium Thiosulfate)			
	800°C (Calcium Carbonate)			
Vapor Density (AIR = 1): N/A Evaporation Rate (Butyl Acetate = 1): N/A				
Solubility in Water: 50 g/100 ml at 4 °C (Sodium Thiosulfate), 0.001 gm in 100 mL water (Calcium Carbonate)				
Appearance and Odor: Colorless crystals or white powder. (Sodium Thiosulfate), White powder, odorless (Calcium Carbonate).				

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 with full face piece operated in positive pressure mode.

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	ctable Conditions to Avoid: Stable under ordinary conditions of use and storage.			
	Stable	Х			
•	Incompatibility (<i>Materials to Avoid</i>): Incompatible with metal nitrate, sodium nitrite, iodine, acids, lead, mercury, fluorine, and silver salts.				
Hazardous Decomposition or Byproducts: Burning may produce sulfur oxides. When heated to decomposition, emits Calcium oxide fumes and liberates Carbon dioxide.					
Hazardous	May Oc	cur	Conditions to Avoid: Heat and incompatible materials.		
Polymerizati	Polymerization:				
	Will Not	İ	X		
	Occur				

Section VI – Health Hazard Data					
Route(s) of Entr	ry:	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: May cause irritation to respiratory tract. Symptoms may include coughing and shortness of breath if Sodium Thiosulfate is inhaled. Low level of toxicity by ingestion. Diarrhea may occur by ingestion of large quantities.					
Medical Conditions Generally Aggravated by Exposure: Chronic exposure may cause skin irritation. Excessive concentrations of a nuisance dust may cause nuisance condition such as coughing, sneezing, and nasal irritation. Excessive oral doses of Calcium carbonate may produce alkalosis and hypercalcemia.					
Emergency / First Aid	rst Aid medical attention immediately. Never give anything by mouth to an unconscious person.				
Procedures:	Inhalation: If a person breathes in large amounts, move the exposed person to fresh air. Seek medical attention.				
	Eye Contact: Immediately flush with plenty of water for at least 15 minutes. 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: Ventilate area of leak or spill. Wear suitable protective clothing. Take up with sand or other noncombustible absorbent material and place into container for later disposal. Flush spill area with water

Waste Disposal Method: Dispose of in accordance with all applicable federal, state, and local environmental regulations.

Handling and Storing: Keep container tightly closed, in a cool, dry ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues.

Other Precautions: 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. Remove					

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contaminated clothing immediately. Keep away from food and beverages. Avoid contact with skin, eyes and clothing.