



MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	Chlortetracycline-HCl		
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: 03/28/05			

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
Chlortetracycline Hydrochloride	N/A	N/A	ORL-RAT, > 3000 mg/kg

Section III – Physical Characteristics	
Boiling Point: N/A	Specific Gravity (H₂O = 1): N/A
Vapor Pressure (mm Hg.): N/A	Melting Point: 220°C
Vapor Density (AIR = 1): 17.8	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: 8.6 mg/ml	
Appearance and Odor: Solid, yellow odorless.	

Section IV – Fire and Explosion Hazard Data	
Flash Point (Method Used): 210°C (410°F)	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.	
Unusual Fire and Explosion Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air.	

Section V – Reactivity Data			
Stability	Unstable		Conditions to Avoid: Stable under normal temperatures and pressures. May discolor on exposure to light.
	Stable	X	
Incompatibility (Materials to Avoid): Strong oxidizing agents.			
Hazardous Decomposition or Byproducts: Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.			
Hazardous Polymerization	May Occur		Conditions to Avoid: Incompatible materials, light, dust generation, exposure to air, exposure to moist air or 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)	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 be harmful if absorbed through the skin, inhaled or swallowed. Symptoms may include nausea, vomiting, and diarrhea. Irritant to skin and mucous membranes. Irritating effect on the eyes.			
Medical Conditions Generally Aggravated by Exposure: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.			
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.		
	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: Ventilate spill area. Wear suitable protective clothing, and remove contaminated clothing immediately. 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. Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep refrigerated. Protect from moisture.	
Other Precautions: Ensure good ventilation / exhaustion at the workplace. Avoid breathing dust, vapor, mist, or gas. 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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