



MATERIAL SAFETY DATA SHEET

Section I – Product Information

Product Name or Identity:	Dichloran Glycerol (DG-18) Agar 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:	10/11/04		

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 LD₅₀
Chloramphenicol, Amphenicol	N/A	N/A	ORL-RAT, 2500 mg/kg
Chlorotetracycline	N/A	N/A	ORL-MSE, 2314 mg/kg
Magnesium Sulfate	N/A	N/A	SUBCUT-RAT, 1200 mg/kg
Potassium Phosphate	N/A	N/A	SKN-RBT, >4640 mg/kg

Section III – Physical Characteristics

Boiling Point: 2 g/l (Cycloheximide)	Specific Gravity (H₂O = 1): 2.57 (Magnesium Sulfate)
Vapor Pressure (mm Hg.): N/A	Melting Point: 151°C (Chloramphenicol), 150°C (Magnesium Sulfate) >465°C (Potassium Phosphate), 220°C (Chlorotetracycline)
Vapor Density (AIR = 1): 11.1 (Chloramphenicol), 17.8 (Chlorotetracycline)	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: 2.5 mg/ml at 25°C (Chloramphenicol), 150 g/ 100 g cold water (Potassium Phosphate) 8.6 mg/ml (Chlorotetracycline)	
Appearance and Odor: Solid, light beige. Characteristic odor. (Chloramphenicol), White crystals or powder, odorless (Potassium Phosphate), Solid yellow, odorless (Chlorotetracycline).	

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used): 210°C (Chlorotetracycline)	Flammable Limits: LEL (Lower Explosive Limit) - N/A UEL (Upper Explosive Limit) - N/A
Extinguishing Media: Use sand, carbon dioxide or powdered extinguishing agent. Never use water.	
Special Fire Fighting Procedures: Fight larger fires with alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus. Remove contaminated clothing immediately.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases are produced. Vapors may be heavier than air. Vapors can spread along the ground and collect in low or confined areas.	

Section V – Reactivity Data

Stability:	Unstable		Conditions to Avoid: Light, dust generation, exposure to air, exposure to moist air or water
	Stable	X	
Incompatibility (Materials to Avoid): Acids, acid chlorides, acid anhydrides and oxidizing agents.			
Hazardous Decomposition or Byproducts: Hydrogen chlorine (HCl), Nitrogen oxides (NOx), Carbon monoxide (CO) and Carbon dioxide (CO ₂).			
Hazardous Polymerization:	May Occur		Conditions to Avoid: Heat, light, dust, moisture, and incompatible materials.
	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 skin. May cause eye, skin, or digestive tract irritation. Possible risk of harm to unborn child. Possible carcinogen.		
Carcinogenicity: (National Toxicology Program)	NTP? No	IARC Monographs? 2A (Chloramphenicol) This agent is probably carcinogenic to humans. (International Agency for Research in Cancer)	OSHA Regulated? No
Signs and Symptoms of Exposure: Exposure to Chloramphenicol may cause nausea, headache, and vomiting. Irritant to skin and mucous membranes. Irritating effect to eye. Ingestion may cause nausea, vomiting and diarrhea. Allergic reactions in hypersensitive persons. Phosphates are slowly and incompletely absorbed when ingested.			
Medical Conditions Generally Aggravated by Exposure: Increased exposure to Chloramphenicol may cause anemia and other blood abnormalities. Possible risk to unborn child.			
Emergency / First Aid Procedures:	General Information: Immediately remove contaminated clothing. Show physician product label.		
	Ingestion: If swallowed, seek medical attention immediately. DO NOT INDUCE VOMITING.		
	Inhalation: Supply fresh air or oxygen. Seek medical attention immediately. In case of unconsciousness, place patient on side position for transportation.		
	Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and upper lids. Seek medical attention.		
	Skin Contact: 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:	Wear suitable protective clothing. Remove contaminated clothing immediately. In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. Avoid inhalation, contact with eyes and skin.
Waste Disposal Method:	Dispose in accordance with all applicable federal, state, and local environmental regulations. Do not empty into drains, dispose of Chloramphenicol at a special hazardous waste collection container.
Handling and Storing:	Keep container tightly closed. Protect from moisture and light. Store away from oxidizing agents. Keep receptacle tightly sealed, avoid contact with moist air and steam. Store only in the original receptacle.
Other Precautions:	Prevent formation of dust. 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. Use only in chemical fume hood if used in high concentrations than product label.		
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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