

APG**Analytical Products Group, Inc.**2730 Washington Blvd., Belpre, OH 45714
740-423-4200 800-272-4442 Fax 740-423-5588**Material Safety Data Sheet**

Date prepared on: 1/25/05

Last revised on: 1/25/05

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Section I: Product Identification

CATALOG NUMBER: 5500, 5502, 5510 and 5512	PRODUCT NAME: Total Coliform - Total Fecal (Presence / Absence) Drinking Water (WS) Proficiency Testing Sample or Quality Control Sample or WS Micro Standard Plate Count
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Section II - Hazardous Ingredients/Identity Information

Chemical Name	CAS Reg. No.	OSHA PEL (TWA)	% Composition*
Microbial cultures consist of freeze dried bacteria, shipped on solid medium (a mixture of components that may include, but is not limited to: inorganic salts, vitamins, amino acids, carbohydrates and other nutrients).		Not applicable	>99%

Non-Hazardous Ingredients/Identity Information

Chemical Name	CAS Reg. No.	OSHA PEL (TWA)	% Composition*

* Components are calculated on a weight/weight basis.

Section III - Physical/Chemical Characteristics of Hazardous Ingredients

BOILING POINT: Not available	SPECIFIC GRAVITY: Not available		
VAPOR PRESSURE: Not available	SOLUBILITY IN WATER: Complete	APPEARANCE/ODOR: Opaque gel. Freeze dried solid material	

Section IV - Fire and Explosion Hazard Data

FLASH POINT (Method used): Not applicable	AUTO IGNITION TEMPERATURE: Not applicable	FLAMMABLE LIMITS	LEL	UEL
EXTINGUISHING MEDIA: Not applicable				
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire exposed containers cool.				
UNUSUAL FIRE AND EXPLOSION HAZARDS: Not applicable				

Section V - Reactivity Data

STABILITY:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>	Conditions to Avoid: Not applicable
INCOMPATIBILITY (Materials to avoid): Not applicable			
HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable			
HAZARDOUS POLYMERIZATION:	May Occur <input type="checkbox"/>	Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid:

Section VI - Health Hazard Data

ROUTES OF ENTRY	Inhalation? YES	Skin? YES	Ingestion? YES
HEALTH HAZARDS (Acute and Chronic): ACUTE: None listed. CHRONIC: None listed.			
COMPONENTS LISTED AS CARCINOGENS OR POTENTIAL CARCINOGENS: Not applicable			
SIGNS AND SYMPTOMS OF EXPOSURE: None listed.			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None listed.			
EMERGENCY AND FIRST AID PROCEDURES: Seek medical assistance for treatment, observation and support if necessary. GENERAL: Remove contaminated clothing, wash thoroughly before reuse. EYE CONTACT: Flush with water, seek medical attention. SKIN CONTACT: Wash with soap and water. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and obtain medical assistance. INGESTION: Obtain medical assistance if swallowed. If conscious, give large amounts of water.			

Section VII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain the spill and decontaminate using suitable disinfectants such as chlorine bleach or 70% ethyl or isopropyl alcohol.
WASTE DISPOSAL METHOD: Dispose of cultures and exposed materials by autoclaving at 121°C for 20 minutes. Dispose of sealed vials of freeze dried material by dry heat sterilization at 170°C for four hours. Follow all Federal, State and local regulations.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Handle as a potentially biohazardous material under at least Biosafety Level 1 containment. Store at 5°C out of direct sunlight.
OTHER PRECAUTIONS*

Section VIII - Control Measures

RESPIRATORY PROTECTION (Please specify): Handle as a potentially biohazardous material under at least Biosafety Level 1 containment.	
VENTILATION: Handle as a potentially biohazardous material under at least Biosafety Level 1 containment.	
PROTECTIVE GLOVES: Butyl, neoprene, or latex rubber gloves.	EYE PROTECTION: Safety glasses, or goggles.
OTHER PROTECTIVE EQUIPMENT:	
EMERGENCY WASH FACILITIES: Maintain eye wash and quick drench showers in work area.	

The information stated in this Material Safety Data Sheet (MSDS) is believed to be correct on the date of publication and must not be considered all conclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. Persons not specifically and properly trained should not handle this chemical or its container. This MSDS is provided without any warranty expressed or implied, including merchantability or fitness for any particular purpose.

This product is furnished for laboratory use ONLY! Our standards may not be used as drugs, cosmetics, agricultural or pesticidal products, food additives or as house hold chemicals.

* Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration, Environmental Protection Agency, and others) may have specific regulations concerning the transportation, handling, storage or use of this product which may not be contained herein. The customer or user of this product should be familiar with these regulations.

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Section I: Product Identification

CATALOG NUMBER: 4599/5599	PRODUCT NAME: Phosphate Buffer Solution
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Section II - Hazardous Ingredients/Identity Information

Chemical Name	CAS Reg. No.	OSHA PEL (TWA)	% Composition*
No hazardous component greater than 1%			

Non-Hazardous Ingredients/Identity Information

Chemical Name	CAS Reg. No.	OSHA PEL (TWA)	% Composition*
Water, inorganic and organic compounds.			100%

* components are calculated on a weight/weight basis.

Section III - Physical/Chemical Characteristics

BOILING POINT: >100 C		SPECIFIC GRAVITY: (H20=1)	
VAPOR PRESSURE: 760 MMHG @ 100 C	SOLUBILITY IN WATER: Complete	APPEARANCE/ODOR: Clear, colorless and odorless liquid.	

Section IV - Fire and Explosion Hazard Data

FLASH POINT (Method used): N/A	AUTO IGNITION TEMPERATURE: N/A	FLAMMABLE LIMITS N/A	LEL N/A	UEL N/A
EXTINGUISHING MEDIA: Sample is non-flammable, use extinguisher media appropriate for the surrounding fire.				
SPECIAL FIRE FIGHTING PROCEDURES: N/A				
UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known				

Section V - Reactivity Data

STABILITY:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>	Conditions to Avoid: N/A
INCOMPATIBILITY (Materials to avoid): Water reactive materials.			
HAZARDOUS DECOMPOSITION PRODUCTS: None Known			
HAZARDOUS POLYMERIZATION:	May Occur <input type="checkbox"/>	Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid: N/A

Section VI - Health Hazard Data

ROUTES OF ENTRY	Inhalation? No	Skin? Yes	Ingestion? Yes
HEALTH HAZARDS (Acute and Chronic): ACUTE: N/A CHRONIC: N/A			
COMPONENTS LISTED AS CARCINOGENS OR POTENTIAL CARCINOGENS: None Known			
SIGNS AND SYMPTOMS OF EXPOSURE: N/A			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A			
EMERGENCY AND FIRST AID PROCEDURES: EYE CONTACT: Flush with water SKIN CONTACT: Wash with soap and water INHALATION: N/A INGESTION: Drink excess water to dilute salts, vomiting may occur.			

Section VII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb and dispose of material, may be flushed to sewer.
WASTE DISPOSAL METHOD: Dispose as non-hazardous waste, may be flushed to sewer.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Treat as non-hazardous sample.
OTHER PRECAUTIONS* NA

Section VIII - Control Measures

RESPIRATORY PROTECTION (Please specify): None required	
VENTILATION: Local exhaust	
PROTECTIVE GLOVES: None required	EYE PROTECTION: safety glasses
OTHER PROTECTIVE EQUIPMENT: NA	
EMERGENCY WASH FACILITIES: maintain eye wash and quick drench showers in work area.	

Section IX – WHMIS Class – Not Hazardous

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