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**Creation Date: 04/29/86 (1085-11)**  
**Revision Date: 07/22/04**

## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAME: PHOSPHATE ACTIVATOR SOLUTION

CATALOG NOS.: A-8500

DESCRIPTION: An accessory solution used in conjunction with reagent ampoules in the determination of ortho phosphate in water. Each bottle contains approximately 10 mL of accessory solution.

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

### II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Stannous Chloride, Dihydrate  
 CAS NO.: 10025-69-1 PERCENT: <10.0

COMPONENT: Glycerin  
 CAS NO.: 56-81-5 PERCENT: >90.0

### III. HAZARDS IDENTIFICATION

Avoid generating mists.

ACUTE TOXICITY: Irritation, cough, nausea, diarrhea, vomiting

CHRONIC TOXICITY: Irritation, sensitivity, may effect kidneys

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin or kidney disorders

### IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 30 minutes and skin with soap and water for 15 minutes.

INGESTION: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Induce vomiting if instructed by medical personnel. Seek medical attention.

INHALATION: Remove to fresh air. If necessary, give artificial respiration by mechanical means and seek medical attention.

### V. FIRE FIGHTING MEASURES

FLASH POINT: 177°C (Glycerin)

AUTOIGNITION POINT: 370°C (Glycerin)

FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam

### VI. ACCIDENTAL RELEASE MEASURES

Take up with absorbent material. Place in small containers for disposal.

### VII. HANDLING AND STORAGE

If this product is used as directed, the user will not come in contact with or be exposed to any of its chemical components.

Wash thoroughly after handling. Avoid contact with eyes.

Product should be stored in the dark and at room temperature; however, temperatures up to 120°C or even below freezing will not normally affect reagent performance.

### VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL: 2 mg/m<sup>3</sup> TWA as tin, 5 mg/m<sup>3</sup> TWA glycerin as respirable fraction

ACGIH TLV: 2 mg/m<sup>3</sup> TWA as tin, 10mg/m<sup>3</sup> glycerin mist

PROTECTIVE EQUIPMENT: Safety glasses.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: None

SOLUBILITY IN WATER: Miscible pH: 7

BOILING POINT: 182°C @ 20 mm Hg MELTING POINT: 20°C

VAPOR PRESSURE: 0.0025 mm Hg @ 50°C (Glycerin)

SPECIFIC GRAVITY: 1.26 VAPOR DENSITY: 3.1 (Glycerin)

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: Strong oxidants

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, hydrogen chloride, chlorine, acrolein, tin and oxides of tin and carbon may be emitted.

Stable under normal conditions.

### XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: None

No other data available at this time.

### XII. ECOLOGICAL INFORMATION

Glycerin is expected to readily biodegrade in soil and water and is not expected to be toxic to aquatic organisms.

No other data available at this time.

### XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State, and Local Regulations.

### XIV. TRANSPORT INFORMATION

Not regulated.

### XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

EU Symbols: Not listed.

Risk Phrases: Not listed.

Safety Phrases: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

CANADA INFORMATION:

WHMIS Classification: D2B

All chemical components of this product are listed on Canada's DSL list.

U.S. INFORMATION:

All chemical components of this product are listed on the TSCA Inventory.

### XVI. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.