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After Hours Emergency Nos.: (703) 447-9550
(540) 272-3874
Creation Date: 04/09/87 (1103-24)
Revision Date: 11/29/11

MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAMES: PHOSPHATE CHEMets® Refill, VACUettes® Refills, and Vacu-vials® Ampoules

CATALOG NOS.: R-8510, R-8510A, R-8510B, R-8510C, R-8510D, and K-8513 (ampoules)

DESCRIPTION: Reagent ampoules for the determination of ortho phosphate in water. (Note: Complete kits contain reagent ampoules and Activator Solution, Catalog No. A-8500. See A-8500 MSDS also.)

Each CHEMet™ and VACUette™ ampoule contains approximately 0.5 mL of liquid reagent sealed under vacuum. Each Vacu-vial™ ampoule contains approximately 2 mL of liquid reagent sealed under vacuum.

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

II. HAZARDS IDENTIFICATION

Corrosive. Causes burns.

ACUTE TOXICITY: Burns, irritation, abdominal pain, circulation disturbances, nausea, vomiting, rapid pulse and respiration.

CHRONIC TOXICITY: Irritation, dermatitis, tooth erosion, conjunctivitis, bronchitis, pneumonia, chronic irritation or inflammation, hypotension

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin, or respiratory disorders.

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Ammonium Molybdate, Tetrahydrate
 CAS NO.: 12054-85-2 PERCENT: < 1.0

COMPONENT: Sulfuric Acid
 CAS NO.: 7664-93-9 PERCENT: 8.0 - 9.0

COMPONENT: Deionized Water
 CAS NO.: 7732-18-5 PERCENT: > 90

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes.
 INGESTION: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.

INHALATION: Remove to fresh air. If necessary, give artificial respiration by mechanical means, do not use mouth to mouth resuscitation, seek medical advice.

V. FIRE FIGHTING MEASURES

FLASH POINT: N/A AUTOIGNITION POINT: N/A
 FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A
 EXTINGUISHING MEDIA: Dry chemical or carbon dioxide

VI. ACCIDENTAL RELEASE MEASURES

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

VII. HANDLING AND STORAGE

Always wear eye protection when working with these ampoules.

WARNING: Do not break the tip of the ampoule unless it is completely immersed in your sample. Breaking the tip in the air may cause the glass ampoule to shatter. 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.

Fragile. Liquid in glass. Handle with care.

Exposure of this product to temperatures up to 120°F (49°C) or even below 32°F (0°C) will not create a safety hazard. For optimum analytical accuracy, the product should be stored in the dark and at room temperature, and should not be used beyond expiration date.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL: 1 mg/m³ TWA Sulfuric Acid

ACGIH TLV: 0.2 mg/m³ TWA Sulfuric Acid

PROTECTIVE EQUIPMENT: Impact- and splash-resistant eyewear; Protective gloves compatible with the hazardous reagent constituents identified on this MSDS.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: None
 SOLUBILITY IN WATER: Complete pH: < 0.5
 BOILING POINT: 120°C MELTING POINT: 0°C
 VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.06
 VAPOR DENSITY: N/A

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: Strong bases
 HAZARDOUS DECOMPOSITION PRODUCTS: ammonia gas, oxides of nitrogen, molybdenum, and sulfur
 Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: soluble molybdenum compounds: ACGIH - Group A3, confirmed animal carcinogen with unknown relevance to humans.
 No other data available at this time.

XII. ECOLOGICAL INFORMATION

May be harmful to aquatic life.
 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

U.S. DOT, IATA, and IMDG: Dangerous Goods in Excepted Quantities
 Hazard Class: 8 UN No.: 1760 Packing Group: II

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

EU Symbols: C - CORROSIVE

Risk Phrases: Causes burns.

Safety Phrases: Avoid contact with skin and eyes. In case of contact with skin or eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

CANADIAN INFORMATION:

WHMIS Classification: D1A, E

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

U.S. INFORMATION:

RCRA: Contains RCRA regulated substances. EPA Waste ID No.: D002

OSHA: This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard (29 CFR 1910.1200).

SARA Section 313: This product contains an ammonium salt which is subject to the reporting requirements of Section 313 of SARA Title III.

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.

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MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAME: PHOSPHATE ACTIVATOR SOLUTION

CATALOG NO.: A-8500

DESCRIPTION: An accessory solution used in conjunction with reagent ampoules in the determination of ortho phosphate in water. Each bottle contains approximately 9 mL of accessory solution.

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

II. HAZARDS IDENTIFICATION

Irritant. May cause sensitization by skin contact. Irritating to eyes.
 ACUTE TOXICITY: Irritation to eyes and skin, cough, nausea, diarrhea, vomiting
 CHRONIC TOXICITY: Skin sensitization, irritation to eyes, may effect kidneys
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin or kidney disorders

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Stannous Chloride, Dihydrate
 CAS NO.: 10025-69-1 PERCENT: 4.0 - 5.0

COMPONENT: Glycerin
 CAS NO.: 56-81-5 PERCENT: > 95.0

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

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 skin and eyes.
 Exposure of this product to temperatures up to 120°F (49°C) or even below 32°F (0°C) will not create a safety hazard. For optimum analytical accuracy, the product should be stored in the dark and at room temperature, and should not be used beyond expiration date.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL: 2 mg/m³ TWA as tin, 5 mg/m³ TWA glycerin as respirable fraction
 ACGIH TLV: 2 mg/m³ TWA as tin, 10 mg/m³ glycerin mist
 PROTECTIVE EQUIPMENT: Impact- and splash-resistant eyewear;
 Protective gloves compatible with the hazardous reagent constituents identified on this MSDS.

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: hydrogen chloride, chlorine, acrolein, tin, oxides of tin and carbon
 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: Xi - IRRITANT
 Risk Phrases: May cause sensitization by skin contact. Irritating to eyes.
 Safety Phrases: Avoid contact with eyes and skin. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

CANADIAN INFORMATION:
 WHMIS Classification: D2B
 All chemical components of this product are listed on Canada's DSL or are exempt.

U.S. INFORMATION:
 OSHA: This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard (29 CFR 1910.1200).
 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.