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MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAMES: CHLORINE CHEMets®, ULR CHEMets® and VACUettes®

CATALOG NOS.: R-2505, R-2505A, R-2505B, R-2505C, R-2505D, R-2505V and R-2511

DESCRIPTION: Reagent ampoules for the determination of chlorine in water. Each CHEMet™ and VACUette™ ampoule contains approximately 0.5 mL of liquid reagent sealed under vacuum. Each ULR CHEMet™ ampoule contains approximately 1 mL of liquid reagent sealed under vacuum.

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

II. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Formaldehyde Solution, 37%
CAS NO.: 50-00-0 PERCENT: 0.2

COMPONENT: Potassium Phosphate Monobasic
CAS NO.: 7778-77-0 PERCENT: < 2.5

COMPONENT: Methanol
CAS NO.: 67-56-1 PERCENT: < 3.5

COMPONENT: Deionized Water
CAS NO.: 7732-18-5 PERCENT: >93.0

COMPONENT: Other components
CAS NO.: N/A PERCENT: < 1.0

Any component of this mixture not specifically listed (e.g. "other components") is not considered to present a carcinogen hazard.

III. HAZARDS IDENTIFICATION

ACUTE TOXICITY: Irritation, cough, blindness, weakness, nausea, vomiting, convulsions.

CHRONIC TOXICITY: Irritation, dermatitis, CNS effects causing headaches or impaired vision

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: skin or respiratory disorders

IV. FIRST AID MEASURES

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

INGESTION: Induce vomiting if instructed by medical personnel. 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 advice.

INHALATION: Remove individual to fresh air. If not breathing give artificial respiration (do not use mouth to mouth resuscitation), if breathing is difficult, administer oxygen and 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. Fragile. Liquid in glass. Handle with care.

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.

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 if applicable, should not be used beyond expiration date.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL: 0.75 ppm Formaldehyde TWA, 200 ppm Methanol TWA
ACGIH TLV: 0.3 ppm C Formaldehyde, 200ppm Methanol TWA
PROTECTIVE EQUIPMENT: Safety glasses
OTHER CONTROL MEASURES: See OSHA Standard 29 CFR 1910.1048 for control measures related to formaldehyde exposure.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: None
SOLUBILITY IN WATER: Complete pH: 4 SPECIFIC GRAVITY: 1
BOILING POINT: 95°C MELTING POINT: 0°C
VAPOR PRESSURE: N/A VAPOR DENSITY: N/A

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong acids
HAZARDOUS DECOMPOSITION PRODUCTS: toxic fumes, oxides of carbon
Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: Formaldehyde: IARC - Group 1, carcinogenic to humans. Formaldehyde gas: ACGIH - Group A2, suspected human carcinogen; NTP - reasonably anticipated to be a human carcinogen; California Proposition 65 - carcinogen. No other data available at this time.

XII. ECOLOGICAL INFORMATION

Methanol, in high concentrations, is dangerous to aquatic life and is expected to biodegrade rapidly. 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: Xn - HARMFUL

Risk Phrases: Harmful by inhalation, in contact with skin and if swallowed. Harmful: Possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Phrases: 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: D1A, D2A, D1B, D2B

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

U.S. INFORMATION:

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

SARA: This product contains methanol and formaldehyde solution which are subject to the reporting requirements of Section 313 of SARA Title III.

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

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the State of California as a carcinogen.

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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