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MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAMES: AMMONIA CHEMets®, VACUettes® and Vacu-vials®

CATALOG NOS.: R-1501, R-1501A, R-1501B, R-1501C, R-1501D,
R-1503 and R-1523

DESCRIPTION: Reagent ampoules for the determination of ammonia in water. Each CHEMet™ and VACUette™ contains approximately 0.50 mL of reagent sealed under vacuum. The R-1503 Vacu-vials® contain approximately 2 mL of reagent sealed under vacuum. The R-1523 Vacu-vials® contain approximately 4.5 mL of reagent sealed under vacuum.

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

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Potassium Iodide
CAS NO.: 7681-11-0 PERCENT: < 1.5

COMPONENT: Mercuric (II) Iodide
CAS NO.: 7774-29-0 PERCENT: < 2.5

COMPONENT: Sodium Borate, Decahydrate
CAS NO.: 1303-96-4 PERCENT: < 2.5

COMPONENT: Sodium Hydroxide
CAS NO.: 1310-73-2 PERCENT: < 3.5

COMPONENT: Deionized Water
CAS NO.: 7732-18-5 PERCENT: >90.0

III. HAZARDS IDENTIFICATION

Danger! Toxic. Corrosive. Causes Burns. Harmful if swallowed.
ACUTE TOXICITY: Skin burns and severe mucous membrane irritation.
Poison by ingestion.
CHRONIC TOXICITY: Sensitization dermatitis, central nervous system damage, kidney damage
TARGET ORGANS: Kidneys, G.I. System, Central Nervous System
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin and respiratory disorders.

IV. FIRST AID MEASURES

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

INGESTION: Seek medical attention. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove individual to fresh air. If not breathing give artificial respiration but not by mouth. If breathing is difficult, administer oxygen. Seek medical attention.

V. FIRE FIGHTING MEASURES

FLASH POINT: N/A AUTOIGNITION POINT: N/A
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.
Fragile. Liquid in glass. Handle with care.
This product has a limited shelf life and should not be used after date specified on refill. However, the shelf life can be extended by 18 months if the ampoules are refrigerated when not in use.
Product should be stored in the dark.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA & ACGIH THRESHOLD LIMIT VALUE: 0.1 mg Hg/m³
PROTECTIVE EQUIPMENT: Safety glasses

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Pale Yellow ODOR: None
SOLUBILITY IN WATER: Complete pH: 13.5
BOILING POINT: 100°C MELTING POINT: 0°C
VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.097
VAPOR DENSITY: N/A

X. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, toxic fumes of mercury and iodide and oxides of potassium, boron and iodine may be emitted.
Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGEN STATUS: None
No other data available at this time.

XII. ECOLOGICAL INFORMATION

Mercuric iodide is expected to bioaccumulate and is 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

US DOT: 49 CFR, 173.4 Exceptions For Small Quantities
IATA: Dangerous Goods In Excepted Quantities
Hazard Class: 8 ID: UN 1760 Group: II

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:
EU Symbols: C - CORROSIVE, T - TOXIC
Risk Phrases: Toxic by inhalation, in contact with skin and if swallowed.
Causes burns. Danger of cumulative effects.
Safety Phrases: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Do not breathe vapor. Wear suitable protective clothing, gloves and eye/face protection. In case of contact with eyes, rinse immediately and seek medical advice.
CANADIAN INFORMATION:
WHMIS Classification: E, D1A, D2B
All chemical components of this product are listed on Canada's DSL list.
U.S. INFORMATION:
CALIFORNIA PROPOSITION 65: "WARNING - This product contains a chemical known to the State of California as a reproductive toxicant."
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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