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Creation Date: 04/09/87 (1055-22)
Revision Date: 11/29/11

MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

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

CATALOG NOS.: R-8012, R-8012A, R-8012B, R-8012C, R-8012D, K-8003, and K-8023

DESCRIPTION: Reagent ampoules for the determination of phenol in water. Each CHEMet™ and VACUette™ ampoule contains approximately 0.5 mL of liquid reagent sealed under vacuum. Each K-8003 Vacu-vial™ ampoule contains approximately 2 mL of liquid reagent sealed under vacuum. Each K-8023 Vacu-vial™ ampoule contains approximately 4.5 mL of liquid reagent sealed under vacuum. The tip of each CHEMet™ ampoule is coated with approximately 0.03 g of solid chemical. The tip of each VACUette™ and Vacu-vial™ ampoule is coated with approximately 0.05 g of solid chemical.

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

II. HAZARDS IDENTIFICATION

ACUTE TOXICITY: Irritation
CHRONIC TOXICITY: Irritation
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No data available.

III. COMPOSITION / INFORMATION ON INGREDIENTS

In the Ampoule:

COMPONENT: Sodium Borohydride
CAS NO.: 16940-66-2 PERCENT: < 0.1

COMPONENT: 4-Aminoantipyrine
CAS NO.: 83-07-8 PERCENT: 0.2

COMPONENT: Disodium Ethylenediamine Tetraacetate, dihydrate
CAS NO.: 6381-92-6 PERCENT: 0.2

COMPONENT: Tris(hydroxymethyl)aminomethane
CAS NO.: 77-86-1 PERCENT: < 0.3

COMPONENT: Sodium Carbonate, monohydrate
CAS NO.: 5968-11-6 PERCENT: 1.0

COMPONENT: Deionized Water
CAS NO.: 7732-18-5 PERCENT: > 98

On Tip of the Ampoule:

COMPONENT: Potassium Ferricyanide
CAS NO.: 13746-66-2 PERCENT: 100

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes and skin with 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. Seek medical advice.

INHALATION: Remove individual to fresh air.

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 or water spray

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 & ACGIH TLV: None listed

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

IX. PHYSICAL AND CHEMICAL PROPERTIES

In the Ampoule:

STATE: Liquid APPEARANCE: Colorless ODOR: None
SOLUBILITY IN WATER: Complete pH: 10.7
BOILING POINT: 100°C MELTING POINT: 0°C
VAPOR PRESSURE: N/A VAPOR DENSITY: N/A
SPECIFIC GRAVITY: 1.0

On Tip of the Ampoule:

STATE: Crystalline solid APPEARANCE: Yellow or red crystals
ODOR: Mild saline SOLUBILITY IN WATER: 33% @ 4°C
BOILING POINT: Not determined MELTING POINT: Not determined
pH: Not available SPECIFIC GRAVITY: 1.85 g/cm³ at 20°C

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES (tip coating): Strong acids, ammonia
HAZARDOUS DECOMPOSITION PRODUCTS: Highly toxic fumes
Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

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

XII. ECOLOGICAL INFORMATION

No data available.

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: None
Risk/Safety Phrases: None

CANADIAN INFORMATION:

WHMIS Classification: 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).
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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