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MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAME: IRON IN BRINE CHEMetrics® and Vacu-vials®

CATALOG NO.: R-6002 and R-6033

DESCRIPTION: Reagent ampoules for the determination of iron in brines. Each CHEMet™ contains approximately 0.50 mL of liquid reagent sealed under vacuum. Each Vacu-vial™ contains approximately 2 mL of liquid reagent sealed under vacuum.

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

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Ammonium Thiocyanate
 CAS NO.: 1762-95-4 PERCENT: 30

COMPONENT: Methanol
 CAS NO.: 67-56-1 PERCENT: 2

COMPONENT: Deionized Water
 CAS NO.: 7732-18-5 PERCENT: 68

III. HAZARDS IDENTIFICATION

Harmful if swallowed. May be harmful if absorbed through skin.
 ACUTE TOXICITY: Irritation, nausea, diarrhea, disorientation, blindness, CNS effects
 CHRONIC TOXICITY: Irritation, dermatitis, thyroid disorders, systemic toxicity
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin disorders

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 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

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.
 Product should be stored in the dark and at room temperature.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA & ACGIH THRESHOLD LIMIT VALUE: 200 ppm Methanol
 PROTECTIVE EQUIPMENT: Safety glasses.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: None
 SOLUBILITY IN WATER: Complete pH: 5.3
 BOILING POINT: 100°C MELTING POINT: 0°C
 VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.0
 VAPOR DENSITY: N/A

X. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, hydrogen cyanide, formaldehyde, ammonia or ammonia derivatives, and oxides of sulfur, nitrogen 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

Methanol is dangerous to aquatic life in high concentrations and is expected to biodegrade rapidly in soil and water. Ammonium thiocyanate is not expected to bioconcentrate or to affect aquatic organisms when released in low concentrations.
 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: T - TOXIC, Xn - HARMFUL
 Risk Phrases: Harmful by inhalation, in contact with skin and if swallowed.
 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
 Safety Phrases: In case of contact with 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).
 CANADA INFORMATION:
 WHMIS Classification: D1A, D2A
 All chemical components of this product are listed on Canada's DSL list.
 U.S. INFORMATION:
 This product contains methanol which is subject to SARA Section 313 reporting requirements.
 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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