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MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAME: DEHA ACTIVATOR SOLUTION

CATALOG NO.: A-3900

DESCRIPTION: An accessory solution used in conjunction with reagent ampoules in the determination of DEHA in water. Each bottle contains approximately 10 mL of accessory solution.

NFPA RATINGS: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 0

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Ferric Nitrate, nonahydrate
 CAS NO.: 7782-61-8 PERCENT: < 5.0

COMPONENT: Nitric Acid
 CAS NO.: 7697-37-2 PERCENT: < 15.0

COMPONENT: Deionized Water
 CAS NO.: 7732-18-5 PERCENT: > 80.0

III. HAZARDS IDENTIFICATION

Danger! Corrosive. Causes burns. Harmful if swallowed.
 ACUTE TOXICITY: Irritation and burns, central nervous system depression, liver and kidney damage.
 CHRONIC TOXICITY: Dermatitis, methemoglobinemia.
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin and respiratory disorders, impaired liver or kidney function.

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 individual to fresh air. If necessary, give oxygen or artificial respiration and seek medical attention.

V. FIRE FIGHTING MEASURES

FLASH POINT: Non-combustible AUTOIGNITION POINT: N/A
 FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A
 EXTINGUISHING MEDIA: Water spray

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.
 Product should be stored in the dark and at room temperature; however, temperatures up to 120°F or even below freezing will not normally affect reagent performance.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL & ACGIH TLV: 2 ppm Nitric Acid TWA, 1 mg/m³ soluble iron salt as Fe
 PROTECTIVE EQUIPMENT: Safety glasses.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: None
 SOLUBILITY IN WATER: Miscible pH: < 2
 BOILING POINT: 95°C MELTING POINT: N/A
 VAPOR PRESSURE: Not determined SPECIFIC GRAVITY: 1.08
 VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: acids, alkalis, carbides, metals, hydrogen sulfide
 HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decom-position, toxic oxides of nitrogen are emitted.
 Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

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

XII. ECOLOGICAL INFORMATION

No 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: 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
 Risk Phrases: Causes Burns.
 Safety Phrases: Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 CANADA INFORMATION:
 WHMIS Classification: D2B, E
 All chemical components of this product are listed on Canada's DSL list.
 U.S. INFORMATION:
 All chemical components of this product are listed on the TSCA Inventory.
 This product contains nitric acid which is subject to SARA Section 313 reporting requirements.

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.