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MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAME: AMMONIA Catalyst Solution

CATALOG NO.: A-1401

DESCRIPTION: Catalyst solution for the determination of monochloramine and free ammonia in water. Each bottle contains approximately 10 mL of accessory solution.

NFPA RATINGS: HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 1

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Sodium Nitroferricyanide
 CAS NO.: 14402-89-2 PERCENT: 10.0

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

III. HAZARDS IDENTIFICATION

Danger! Harmful if swallowed, inhaled, or absorbed through the skin.
 ACUTE TOXICITY: Irritation, systemic poisoning
 CHRONIC TOXICITY: Irritation, nausea, fatigue, diarrhea, confusion
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: CNS disorders, thyroid, skin, heart or lung disorders.
 A cyanide antidote kit should be available.

IV. FIRST AID MEASURES

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

INGESTION: Seek medical attention. Do not induce vomiting unless directed to do so by medical personnel. Administer antidote kit and oxygen. Never give anything by mouth to an unconscious person.

INHALATION: Remove individual to fresh air. If not breathing give artificial respiration. If breathing is difficult, administer antidote kit and oxygen. Seek medical attention.

A cyanide antidote kit should be available when working with cyanide compounds.

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

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA & ACGIH PERMISSIBLE EXPOSURE LIMIT: 5 mg/m3 sodium nitro-ferricyanide
 PROTECTIVE EQUIPMENT: Safety glasses.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Red ODOR: None
 SOLUBILITY IN WATER: Miscible pH: 3.1
 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: Emits toxic oxides and hydrogen cyanide when heated. Emits toxic cyanide fumes in contact with acid.
 INCOMPATIBILITIES: Strong acids, strong oxidizers.
 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: T - TOXIC

Risk Phrases: Toxic in contact with skin and if swallowed.

Safety Phrases: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). After contact with skin, wash immediately with plenty of water.

CANADA INFORMATION:

WHMIS Classification: D1B, D2B

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.

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.