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## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAME: IRON IN BRINE Acidifier Solution

CATALOG NO.: A-6001

DESCRIPTION: An accessory solution used in conjunction with reagent ampoules in the determination of iron in brine. Each bottle contains approximately 70 mL of accessory solution.

NFPA RATINGS: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1

### II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Hydrochloric Acid  
 CAS NO.: 7647-01-0 PERCENT: 50.0

COMPONENT: Deionized Water  
 CAS NO.: 7732-18-5 PERCENT: 50.0

### III. HAZARDS IDENTIFICATION

Danger! Corrosive. Causes severe burns. Harmful if swallowed or absorbed through skin.

ACUTE TOXICITY: Irritation, severe burns, labored breathing, pain, vomiting, permanent eye injury, cough, delayed lung edema

CHRONIC TOXICITY: Irritation, tooth erosion, bronchitis

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 30 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. Ventilate spill area.

### 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: C 5 ppm Hydrochloric acid  
 PROTECTIVE EQUIPMENT: Safety glasses.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: Pungent  
 SOLUBILITY IN WATER: Complete pH: 0.1  
 BOILING POINT: 100°C MELTING POINT: 0°C  
 VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.1  
 VAPOR DENSITY: N/A

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: Bases, oxidants, metals, reducing substances  
 HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, hydrogen chloride, chlorine, hydrogen and oxides of carbon may be emitted.

Stable under normal conditions.

### XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: IARC: Group 3 carcinogen (Hydrogen chloride)  
 No other data available at this time.

### XII. ECOLOGICAL INFORMATION

Hydrochloric Acid hydrolyzes when exposed to water, will neutralize soil carbonate-based components, and evaporates from soil.  
 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

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, T-TOXIC

Risk Phrases: Causes severe burns. Toxic by inhalation.

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: D2A, E

All chemical components of this product are listed on Canada's DSL list.

U.S. INFORMATION:

This product contains hydrogen chloride 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.