

# MATERIAL SAFETY DATA SHEET

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**LAMOTTE COMPANY**                      **--4450, IRON REAGENT #1 Solution**

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## MSDS SAFETY INFORMATION

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**MSDS Date:** 12/13/2000  
**MSDS Number:** CLKNF  
**Product ID:** 4450, IRON REAGENT #1 SOLUTION  
**MFN:** 01  
**KIT Part:** Y  
**Responsible Party:**  
**Cage:** 1NSJ1  
**Name:** LAMOTTE COMPANY  
**Address:** 802 Washington Ave.  
                  Box 329  
                  Chestertown MD 21620  
**Info Phone Number:** 419-778-3100  
**Emergency Phone Number:** 800-255-3924 CHEM-TEL  
**Review Ind:** Y  
**Published:** Y

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## CONTRACTOR SUMMARY

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**Cage:** 5986  
**Name:** Carolina Biological Supply CO.  
**Address:** 2700 York RD  
                  Burlington NC 27215-3387  
**Phone:** 800-227-1150 / 910-584-0381  
**Contract Number:** MDA414-01-P-2039  
**Cage:** 1NSJ1  
**Name:** Lamotte Company  
**Address:** 802 Washington Ave.  
                  Box 329  
                  Chestertown MD 21620  
**Phone:** 419-778-3100  
**Cage:** 34807  
**Name:** Lamotte Company  
**Address:** 802 Washington Ave.  
                  Box 329  
                  Chestertown MD 21620  
**Phone:** 419-778-3100

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## INGREDIENTS

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**Cas:** 7664-93-9  
**RTECS #:** WS5600000  
**Name:** SULFURIC ACID  
**Percent by Wt:** 4.8  
**OSHA PEL:** 1 mg/m3  
**ACGIH TLV:** 1 mg/m3  
**ACGIH STEL:** 3 mg/m3  
**EPA Rpt. Qty.:** 1000 lbs  
**DOT Rpt Qty.:** 1000 lbs

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**Cas:** 7732-18-5  
**RTECS #:** ZC0110000  
**Name:** WATER

% Wt: TO 100%

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**HEALTH HAZARDS DATA**  
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**LD50 LC50 Mixture:** ORL RAT LD50: 2140 mg/kg

**Skin:** Yes

**Ingestion:** Yes

**Carcinogenicity Inds - NTP:** NO

**IARC:** NO

**OSHA:** NO

**Effects of Exposure:**

**TARGET ORGANS:** Corrosive to all body parts.

**Explanation of Carcinogenicity:** None

**Signs and Symptoms of Overexposure:** CORROSIVE. IRRITATING TO EYES, SKIN, NOSE, THROAT and RESPIRATORY SYSTEM. HARMFUL IF SWALLOWED.

**First Aid:**

**EYE:** Flush thoroughly with water for 15 minutes. Consult physician.

**INGESTION:** Do not induce vomiting. Rinse out mouth. Drink Plenty of water. Call a Doctor.

**INHALATION:** Remove to fresh air.

**SKIN:** Flush with water for 15 minutes while removing affected clothing. Wash skin with soap and water.

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**HANDLING AND DISPOSAL**  
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**Spill Release Procedures:** Cover spill with sodium bicarbonate. Scoop up slurry and was down drain with excess water.

**Neutralizing Agent:** SODIUM BICARBONATE

**Waste Disposal Methods:** Add slowly to a solution of sodium carbonate and calcium hydroxide. Pour neutralized solution down drain with excess water. DISPOSE ACCORDING TO FEDERAL, STATE and LOCAL REGULATIONS.

**Handling and Storage Precautions:** WEAR EYE PROTECTION and LAB COAT.

**Other Precautions:** AVOID CONTACT WITH SKIN AND CLOTHING.

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**FIRE AND EXPLOSION HAZARD INFORMATION**  
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**Extinguishing Media:** NOT A FIRE HAZARD

**Unusual Fire/Explosion Hazard:** Can react with metals to form hydrogen gas.

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**CONTROL MEASURES**  
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**Ventilation:** NORMAL VENTILATION

**Work Hygienic Practices:** AVOID CONTACT WITH SKIN AND CLOTHING.

**Supplemental Safety and Health:**

**HAZARD:** HEALTH-2, FLAMMABILITY-0, REACTIVITY-1.

**SCALE:** 4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=LEAST

**"SEE OTHER INFORMATION"**

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**PHYSICAL/CHEMICAL PROPERTIES**  
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**HCC:** F2

**Boiling Point:** >100.C, 212.F

**Vapor Pres.:** <17 @20C

**PH:** <1

**Solubility in Water:** SOLUBLE

**Appearance and Odor:** Clear Odorless Liquid; No Odor  
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**REACTIVITY DATA**

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**Stability Indicator:** YES  
**Materials to Avoid:** Metals, Strong Bases.  
**Hazardous Decomposition Products:** SOX.  
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**TOXICOLOGICAL INFORMATION**

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**Toxicological Information:** TOXICITY: ORL RAT LD50: 2140 mg/kg for Sulfuric Acid, concentrated.  
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**ECOLOGICAL INFORMATION**

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**MSDS TRANSPORT INFORMATION**

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**REGULATORY INFORMATION**

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**OTHER INFORMATION**

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**Other Information:** Item is part of a 20 pc. Kit for Iron High Range Refill Kit #65-2877 From CAROLINA BIOLOGICAL. 4450, 4451, 2210, 2246, 4253, 4100, 4167, 4169, 4170, 6286, 7166, 7424, 4410, 6405, 7460, 7461, 4259, 4483, 4484, 5250. Part of 20 pc. Freshwater Refill Kit #65-2926. See MSDS Serial # CLKNM, CLKNQ, CLKNS, CLKNT, CLKRH, CLKRJ, CLKRS, CLKRV, CLKZT, CLKZW, CLKZX, CLKZY, CLKZZ, CLLBB, CLLBD, CLLBW, CLLCC, CLLCF, AND CLLFC.  
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**TRANSPORTATION INFORMATION**

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**Responsible Party Cage:** 1NSJ1  
**Trans ID NO:** 158641  
**Product ID:** 4450, Iron Reagent 1 Solution.  
**MSDS Prepared Date:** 12/13/2000  
**Review Date:** 08/31/2001  
**MFN:**1  
**Multiple Kit Number:**0  
**Kit Part IND:** Y  
**Review IND:** Y  
**Unit of Issue:** CY  
**Type of Container:** CYLINDER  
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**DETAIL DOT INFORMATION**

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**DOT PSN Code:** NUE  
**DOT Proper Shipping Name:** SULFURIC ACID  
**DOT PSN Modifier:** WITH NOT MORE THAN 51 % Acid.  
**Hazard Class:** 8  
**UN ID Number:** UN2796  
**DOT Packaging Group:** II  
**Label:** Corrosive  
**Special Provision:** A3, A7, B2, B15, N6, N34, T9, T27  
**Packaging Exception:** 154  
**Non Bulk Pack:** 202  
**Bulk Pack:** 242  
**Max QTY Pass:** 1 L  
**Mass QTY Cargo:** 30 L  
**Vessel Stow Req.:** B  
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**DETAIL IMO INFORMATION**

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**IMO PSN Code:** OFF  
**IMO Proper Shipping Name:** SULPHURIC ACID  
**IMO PSN Modifier:** WITH NOT MORE THAN 51% ACID  
**IMDG Page Number:** 8230  
**UN Number:** 2796  
**UN Hazard Class:** 8  
**IMO Packaging Group:** II  
**Subsidiary Risk Label:** -  
**EMS Number:** 8-06  
**MED First Aid Guide Number:** 700

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**DETAIL IATA INFORMATION**

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**IATA PSN Code:** XIY  
**IATA UN ID NUM:** 2796  
**IATA Proper Shipping Name:** SULPHURIC ACID  
**IATA PSN Modifier:** With not more than 51% Acid.  
**IATA UN CLASS:** 8  
**IATA Label:** CORROSIVE  
**UN Packing Group:** II  
**Packing Note Passenger:** 809  
**Max QTY Pass:** 1L  
**Max QTY. Cargo:** 30L  
**Packaging Note Cargo:** 813

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**DETAIL AFI INFORMATION**

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**AFI PSN Code:** XJA  
**AFI Proper Shipping Name:** SULPHURIC ACID  
**AFI PSN Modifier:** Not more than 51% Acid  
**AFI Hazard Class:** 8  
**AFI UN ID NUM:** UN2796  
**AFI Packing Group:** II  
**Special Provisions:** P5, A3, A7, N6, N34.  
**Back Pack Reference:** A12.3

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**HAZCOM LABEL**

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Product ID: 4450, Iron Reagent 1 Solution  
Cage: 1NSJ1  
Company Name: Lamotte Company  
Address: 802 Washington Ave.  
Box 329  
Chestertown MD 21620  
Health Emergency Phone: 800-255-3924 CHEM-TEL  
Label Required IND: Y  
Date of Label Review: 08/31/2001  
Status Code: A  
Origination Code: F  
Eye Protection IND: Yes  
Skin Protection IND: Yes  
Signal Word: WARNING  
Respiratory Protection IND: No

Health Hazard: Moderate

Contact Hazard: Moderate

Fire Hazard: None

Reactivity Hazard: Slight

Hazard and Precautions: Target Organs: Corrosive to all body parts. Corrosive.

Irritating to Eyes, Skin, Nose, Throat and Respiratory System.

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