

**MATERIAL SAFETY DATA SHEET**

MANUFACTURER: Manufactured for  
ROSEMOUNT ANALYTICAL INC.  
ADDRESS: 851 McKinley Avenue  
Colombus, OH 43222

DATE REVISED: 1-21-11  
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(1-800-424-9300 24 Hr. CHEMTREC/ CODE: RANA)

**SECTION 1-Product Identification**

**Product Name: Reagent #4, Reducing Agent**  
**Synonyms: N/A**  
**Part Number: 185-3030-35**

**SECTION 2-Composition/Information on Ingredients**

Ingredient(s)	CAS #	Percent	Hazardous
Water	7732-18-5	98.1	no
Sulfuric Acid	7664-93-9	1.5	yes
Ferric Ammonium Sulfate	10138-04-2	0.4	yes

**SECTION 3-Hazards Identification**

Health Rating: 2  
Flammability Rating: 0  
Reactivity Rating: 1

Lab Protective Equip: gloves, safety goggles

**SECTION 4-First Aid Measures**

**INHALATION:** Fresh air and normal ventilation. Call a physician if difficulty in breathing persists.

**INGESTION:** Immediately drink 4-6 ounces of water, repeat many times, call a physician.

**SKIN CONTACT:** Wash thoroughly with water, call a physician.

**EYE CONTACT:** Immediately flush with water for at least 15 minutes, call a physician.

**SECTION 5-Fire Fighting Measures**

**Fire: Not Combustible**

**Explosion: The solution is not combustible but will react with other chemicals (hydroxides) and even water.**

**Fire Extinguishing Media: Fight Surrounding Fire**

**Special Information: N/A**

**SECTION 6-Accidental Release Measures**

Wear protective gloves, goggles and dike area, do not walk in or stand in solution. Dilute spill with more water. Neutralize by covering surface with slaked lime, add water to form a slurry. Scoop up and flush with excess water. Observe all laws.

**SECTION 7-Handling and Storage**

Material must be stored and disposed of in accordance with all local, state and federal laws.

#### SECTION 8-Exposure Controls/Personal Protection

Airborne Exposure Limits: N/E  
Ventilation System: Not Required  
Personal Respirators (NIOSH Approved): Not Required  
Skin Protection: Rubber Gloves, lab coat (optional)  
Eye Protection: Safety Goggles

#### SECTION 9-Physical and Chemical Properties

Appearance: Colorless liquid  
Odor: None  
Solubility: Soluble  
Specific Gravity: 1.0  
pH: 1.7  
Boiling Point: Approximately 215°F (101°C)  
Melting Point: N/A  
Vapor Density (Air=1): N/A  
Vapor Pressure (mm Hg): N/E  
Evaporation Rate (BuAc=1): N/E

#### SECTION 10-Stability and Reactivity

Stability: Stable  
Hazardous Decomposition Products: Will not occur  
Hazardous Polymerization: N/E  
Incompatibilities: Organic Acids, metals, fulminates  
Conditions to Avoid: N/E

#### SECTION 11-Toxicological Information:

Routes of absorption: Inhalation, skin, eyes, ingestion  
Threshold limit value: Toxicity, oral, Rat LD/50: 3250 mg/kg  
Signs, symptoms and effects of exposure:  
Acute: Irritation of eyes, nose, throat, and skin  
Chronic: May cause burns, erode teeth, cause mouth to become sore; eye, nose & throat inflammation.

#### SECTION 12-Ecological Information

Environmental Fate: N/A  
Environmental Toxicity: N/A

#### SECTION 13-Disposal Considerations

Material must be stored and disposed of in accordance with all local, state and federal laws.

#### SECTION 14-Transport Information

Reportable Quantity: 1000 pounds as 100% Sulfuric Acid (per 49 CFR 172.101 appendix)

UN2796, Sulfuric Acid Solution, 8, Corrosive, PGII

**SECTION 15-Regulatory Information**  
**None Reported**

**SECTION 16-Other Information**  
**N/A**

**NFPA Ratings:**    Health:2    Flammability:0    Reactivity:1

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