

## MATERIAL SAFETY DATA SHEET

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

DATE REVISED: 1-27-11  
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(1-800-424-9300 24 Hr. CHEMTREC/ CODE: RANA)

### SECTION 1-Product Identification

**Product Name:** Reagent #4, Iron color reagent, (blue)  
**Synonyms:** Ortho phenanthroline, 0.08% aqueous  
**Part Number:** 185-3026-36

### SECTION 2-Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent	Hazardous
Water	7732-18-5	99.92	no
1,10 phenanthroline, monohydrate	5144-89-8	0.08	no

### SECTION 3-Hazards Identification

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

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:** Induce vomiting, give plenty of water, call a physician.

**SKIN CONTACT:** Wash thoroughly with soap and water, remove contaminated clothing. Call a physician.

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

### SECTION 5-Fire Fighting Measures

**Fire:** Not flammable

**Explosion:** The solution is not combustible

**Fire Extinguishing Media:** Fight Surrounding Fire

**Special Information:** None

### SECTION 6-Accidental Release Measures

Stop leak if possible. Flush area well with water to dilute. Absorb onto an inert material and store it in a closed container. Vent any confined spaces to outside atmosphere.

### SECTION 7-Handling and Storage

Wash thoroughly after handling. Do not breathe vapors. Do not get in eyes, on skin or on clothing. Keep containers closed. Store in closed containers.

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

Airborne Exposure Limits: N/E

Ventilation System: normal room ventilation is generally adequate.

Personal Respirators (NIOSH Approved): Not Required

Skin Protection: Rubber Gloves, lab coat

Eye Protection: Safety Goggles with side shields

#### SECTION 9-Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Odorless

Solubility: Soluble

Specific Gravity: no data

pH: No data

Boiling Point: Approximately 212-214°F

Melting Point: No data

Vapor Density (Air=1): No data

Vapor Pressure (mm Hg): No data

Evaporation Rate (BuAc=1): No data

#### SECTION 10-Stability and Reactivity

Stability: Stable

Hazardous Decomposition Products: could include Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

Incompatibilities: Strong oxidizers, strong acids

Conditions to Avoid: Extreme heat, flames.

#### SECTION 11-Toxicological Information:

According to Aldrich Chemical Co. Inc, the manufacturer of the 1, 10 Phenanthroline monohydrate, to the best of their knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.

#### SECTION 12-Ecological Information

Environmental Fate: No data

Environmental Toxicity: No data

Additional information: Waste from this product could have a long-term environmental effect thus incineration may be more desirable than landfill disposal.

#### SECTION 13-Disposal Considerations

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

#### SECTION 14-Transport Information

Non-hazardous; maximum container: 5 liters

#### SECTION 15-Regulatory Information

**US Federal Regulations:**

**Toxic Substances Control Act (TSCA): N/V  
(29CFR1910.1200) Hazard  
class - none**

**OSHA Hazard Communication Standard**

**EPA SARA Title III Section 312 (40CFR370) Hazard Class: none  
EPA SARA Title III Section 313 (40CFR372) toxic chemicals above  
“de minimis” level are  
None**

**State Regulations:**

**Proposition 65 Substances (components) known to the State of  
California to cause cancer and/or reproductive toxicity and subject  
to warning and discharge requirements under the “Safe Drinking  
Water and Toxic Enforcement Act of 1986”:  
None**

**SECTION 16-Other Information**

**N/A**

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

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