

**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: Complexing Reagent**  
**Synonyms: Oxalic acid solution**  
**Part Number: 180-1030-33**

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

Ingredient(s)	CAS #	Percent	Hazardous
Water	7732-18-5	95	no
Oxalic Acid	144-62-7	5	yes

**SECTION 3-Hazards Identification**

Health Rating: 3  
Flammability Rating: 0  
Reactivity Rating: 1

Lab Protective Equip: gloves, safety goggles

**SECTION 4-First Aid Measures**

INHALATION: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Call a physician.

INGESTION: Oxalic acid is considered a poison. Do NOT induce vomiting! Give large quantities of lime water or milk to drink. Never give anything by mouth to an unconscious person. Call a physician immediately.

SKIN CONTACT: Wash thoroughly with large quantities of water. Remove contaminated clothing. Call a physician if burning/rash persists.

EYE CONTACT: Irrigate immediately with running water. Flush eyes for 15 to 30 minutes. Call a physician.

**SECTION 5-Fire Fighting Measures**

**Fire: Not Combustible**  
**Explosion: N/A**  
**Fire Extinguishing Media: Fight Surrounding Fire**  
**Special Information: N/A**

**SECTION 6-Accidental Release Measures:**

CAUTION! Floor and other surfaces may be slippery. Ventilate area of spill. Contain and recover liquid, when possible. Absorb spills with vermiculite, dry sand, earth, or similar material. Observe all federal and state laws.

#### SECTION 7-Handling and Storage

Wash hands before handling this or any other chemical before eating, drinking, or smoking.

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

Airborne Exposure Limits: -

ACGIH Threshold Limit Value (TLV): 1mg/m<sup>3</sup> (TWA), 2mg/m<sup>3</sup> (STEL)

OSHA Permissible Exposure Limit (PEL): 1mg/m<sup>3</sup>

Ventilation System: Not required under normal use of this product.

Personal Respirators (NIOSH Approved): Not required under normal use of this product.

Skin Protection: Rubber Gloves, lab coat or apron recommended.

Eye Protection: Safety Goggles, or glasses with side shields.

#### SECTION 9-Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Odorless

Solubility: Soluble

Specific Gravity: 1.04

pH: 1.8

Boiling Point: Approximately 101°C

Melting Point: N/E

Vapor Density (Air=1): N/E

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: Will not occur

Incompatibilities: Avoid contact with strong oxidizers and silver compounds

Conditions to Avoid: N/A

#### SECTION 11-Toxicological Information:

Routes of absorption: Inhalation, skin, eye, ingestion

Threshold limit value: LD 50, Oral, Rat: Oxalic Acid 375 mg/kg

Signs, symptoms, and effects of exposure: Irritation of eyes, mucous membranes, skin rash, local pain, shock, collapse, convulsion.

#### SECTION 12-Ecological Information

Environmental Fate: N/A

Environmental Toxicity: N/A

#### SECTION 13-Disposal Considerations

Neutralize with sodium hydroxide and store for proper disposal.

**SECTION 14-Transport Information**

UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, Corrosive, PGIII,

**SECTION 15-Regulatory Information**

None Reported

**SECTION 16-Other Information**

N/A

**NFPA Ratings:** Health:3 Flammability:0 Reactivity:1

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