



## MATERIAL SAFETY DATA SHEET

REVISION DATE: 10/28/2008 REVISION NUMBER: 2  
DATE PRINTED: 11/11/2008 PREPARED BY: Walter Friedlander

### 1. CHEMICAL PRODUCT

PRODUCT NAME: **RF-4002, Chloride Titrant**  
PRODUCT CODE: 10104

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 2/2 Fire: 0/0  
Reactivity: 0/0 Special/Protective Equipment: None/B

NAME OF THE MANUFACTURER: Rochester Midland Corporation  
333 Hollenbeck Street  
Rochester, New York 14621  
Information: 585-336-2200  
Emergency Phone:  
INFOTRAC: 1-800-535-5053  
OUTSIDE US: 1-352-323-3500

### 2. HAZARDS IDENTIFICATION

#### EFFECTS FROM ACUTE EXPOSURE:

INGESTION: Toxic by oral exposure. Vomiting. Abdominal pain. Nausea.  
SKIN CONTACT: Causes moderate skin irritation. Possible toxic effects.  
INHALATION: May be harmful if inhaled.  
EYE CONTACT: Causes moderate eye irritation.  
CHRONIC EFFECTS: None known.  
EFFECTS/CARCINOGENICITY: None listed under OSHA, IARC, or NTP.  
ROUTES OF ENTRY: Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELs
Mercuric Nitrate 7783-34-8	<2	0.025 mg/m <sup>3</sup>	NA

### 4. FIRST AID MEASURES

INGESTION: Get immediate medical attention.  
SKIN: Remove contaminated clothing. Wash skin with water, using soap if available.  
INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.  
EYES: Immediately flush eyes with large amounts of water. Get immediate medical attention.  
NOTES TO PHYSICIAN: None.

### 5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F): Noncombustible (C): NA  
METHOD: TCC

#### FLAMMABLE LIMITS IN AIR

- LOWER (%): NA  
- UPPER (%): NA

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<b>SENSITIVITY TO MECHANICAL IMPACT(Y/N):</b>	NO
<b>SENSITIVITY TO STATIC DISCHARGE:</b>	Sensitivity to static discharge is not expected.
<b>SUITABLE EXTINGUISHING MEDIA:</b>	As for surrounding fire.
<b>FIRE FIGHTING PROCEDURES:</b>	Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

### 6. ACCIDENTAL RELEASE MEASURES

#### **SPILL PROCEDURES:**

<b>SMALL SPILLS:</b>	Pick up with absorbant material.
<b>LARGE SPILLS:</b>	Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

<b>PERSONAL PRECAUTIONS:</b>	NA
<b>ENVIRONMENTAL PRECAUTIONS:</b>	NA
<b>METHODS FOR CLEANING UP:</b>	NA

### 7. HANDLING AND STORAGE

<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:</b>	Keep container closed. Store in a well ventilated area. Store in a cool, dry location away from incompatible materials. Wash thoroughly after handling. Emptied containers may retain hazardous properties. Do not cut, puncture or weld on or near the container.
<b>OTHER PRECAUTIONS:</b>	No other spill procedures necessary.
<b>SPECIFIC USE(S):</b>	NA

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **PROTECTIVE EQUIPMENT:**

<b>EXPOSURE CONTROLS:</b>	Use in a well ventilated area.
<b>RESPIRATORY PROTECTION:</b>	Use in a well ventilated area. If atmospheric/employee monitoring indicates exposure above the TLV/PEL, use the following respiratory protection: Wear self-contained breathing apparatus.
<b>PROTECTIVE GLOVES:</b>	Rubber gloves.
<b>EYE PROTECTION:</b>	Goggles.
<b>OTHER PERSONAL PROTECTION EQUIPMENT:</b>	None known.
<b>VENTILATION:</b>	Use only in well ventilated area.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE AND ODOR:</b>	Clear. Colorless liquid.	
<b>BOILING POINT (F):</b>	NA	(C) NA
<b>VAPOR PRESSURE:</b>	NA	
<b>VAPOR DENSITY (AIR=1):</b>	NA	
<b>SOLUBILITY IN WATER:</b>	NA	
<b>SPECIFIC GRAVITY:</b>	NA	
<b>VOC Content (%):</b>	NA	
<b>VOV Content (%):</b>	NE	
<b>EVAPORATION RATE:</b>	NA	
<b>PH:</b>	NA	

### 10. STABILITY AND REACTIVITY

<b>STABILITY DATA:</b>	STABLE
<b>POLYMERIZATION:</b>	Will Not Occur.
<b>HAZARDOUS DECOMPOSITION:</b>	Acrylic monomers

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### 10. STABILITY AND REACTIVITY

**INCOMPATIBILITY (MATERIALS TO AVOID):** Combustible/flammable materials. Organic matter. Reducing agents.

**CONDITIONS/HAZARDS TO AVOID:** None known.

### 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** NE

**EFFECTS OF CHRONIC EXPOSURE:** NE

**OTHER TOXIC EFFECTS:** NE

### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** No data at this time

**CHEMICAL FATE INFORMATION:** No data at this time.

**MOBILITY:** NA

**PERSISTENCE/DEGRADABILITY:** NA

**BIOACCUMULATIVE POTENTIAL:** NA

**OTHER ADVERSE EFFECTS:** NA

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHODS:** Dispose in accordance with Federal, State and Local regulations.

### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

### 15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
Mercuric Nitrate 7783-34-8	<2	Not Listed	Not Listed	Not Listed	Developmental

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Mercuric Nitrate 7783-34-8	<2	Not Listed	Not Listed	Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	NJRTK:
Mercuric Nitrate 7783-34-8	<2	Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	PARTK:
Mercuric Nitrate 7783-34-8	<2	Listed

### 16. OTHER INFORMATION

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This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

**\*\*\* END OF MSDS \*\*\***