



## MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/16/2012

REVISION NUMBER: 2

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### 1. CHEMICAL PRODUCT

PRODUCT NAME: **RCMO1546 Molybdenum Titrating Solution**

PRODUCT CODE: RCMO1546

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

Health: 1/1

Fire: 0/0

Reactivity: 0/0

Special/Protective Equipment: Acid/B

NAME OF THE MANUFACTURER: Rochester Midland Corporation  
155 Paragon Drive  
Rochester, New York 14624  
USA

Emergency Phone:  
INFOTRAC: 1-800-535-5053  
OUTSIDE US: 1-352-323-3500

### 2. HAZARDS IDENTIFICATION

#### EFFECTS FROM ACUTE EXPOSURE:

**INGESTION:** May be harmful if swallowed. Vomiting. Nausea. Diarrhea  
**SKIN CONTACT:** May cause moderate skin irritation.  
**INHALATION:** May irritate mouth, nose, and throat. May irritate the lungs.  
**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
Citric acid 77-92-9	< 3	Not applicable	Not applicable

### 4. FIRST AID MEASURES

**INGESTION:** Drink one or two glasses of water. Get medical attention. Never give anything by mouth to an unconscious person.  
**SKIN:** Remove contaminated clothing. Wash skin with water, using soap if available.  
**INHALATION:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.  
**EYES:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.  
**NOTES TO PHYSICIAN:** None.

### 5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: (F): NA (C): Not determined

METHOD: None

# RCMO1546 Molybdenum Titrating Solution

## FLAMMABLE LIMITS IN AIR

LOWER (%): NE  
UPPER (%): NE

SENSITIVITY TO MECHANICAL IMPACT(Y/N):

NO

SENSITIVITY TO STATIC DISCHARGE:

Sensitivity to static discharge is not expected.

SUITABLE EXTINGUISHING MEDIA:

Water fog, carbon dioxide, foam, dry chemical.

FIRE FIGHTING PROCEDURES:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL PROCEDURES:

SMALL SPILLS:

Pick up with absorbant material.

LARGE SPILLS:

Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

PERSONAL PRECAUTIONS:

Not applicable

ENVIRONMENTAL PRECAUTIONS:

Not applicable

METHODS FOR CLEANING UP:

Not applicable

## 7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN  
IN HANDLING AND STORAGE:

Wash thoroughly after handling. Keep container closed. Store in a cool, dry location away from incompatible materials. Emptied containers may retain hazardous properties. Do not cut, puncture or weld on or near the container.

OTHER PRECAUTIONS:

No other spill procedures necessary.

SPECIFIC USE(S):

Not applicable.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS:

Exhaust ventilation.

RESPIRATORY PROTECTION:

If atmospheric/employee monitoring indicates exposure above the TLV/PEL, use the following respiratory protection: Wear self-contained breathing apparatus. Use in a well ventilated area.

PROTECTIVE GLOVES:

Chemical resistant gloves are recommended to minimize skin contact.

EYE PROTECTION:

Safety Glasses. Goggles.

OTHER PERSONAL PROTECTION

None known.

EQUIPMENT:

VENTILATION:

Use local exhaust ventilation as needed if spill occur.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Clear, colorless liquid. Odorless.

BOILING POINT (F):

Approx. 100° C

(C) Not determined

VAPOR PRESSURE:

NA

VAPOR DENSITY (AIR=1):

NA

SOLUBILITY IN WATER:

Not determined

SPECIFIC GRAVITY:

1 - 1.08

VOC Content (%):

NE

EVAPORATION RATE:

NE

PH:

2.2 (0.1 Molar)

## 10. STABILITY AND REACTIVITY

# RCMO1546 Molybdenum Titrating Solution

## 10. STABILITY AND REACTIVITY

**STABILITY DATA:** Stable under normal conditions of use and storage.  
**POLYMERIZATION:** Will Not Occur.  
**HAZARDOUS DECOMPOSITION:** Carbon Dioxide. Carbon Monoxide.  
**INCOMPATIBILITY (MATERIALS TO AVOID):** Metal nitrates may cause a potentially explosive reaction.  
**CONDITIONS/HAZARDS TO AVOID:** None known.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** Not Established  
**EFFECTS OF CHRONIC EXPOSURE:** Not established.  
**OTHER TOXIC EFFECTS:** Not established.

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** No data at this time  
**CHEMICAL FATE INFORMATION:** No data at this time.  
**MOBILITY:** Not applicable.  
**PERSISTENCE/DEGRADABILITY:** Not applicable  
**BIOACCUMULATIVE POTENTIAL:** Not applicable  
**OTHER ADVERSE EFFECTS:** Not applicable

## 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:
Citric acid 77-92-9	< 3	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Citric acid 77-92-9	< 3	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Citric acid 77-92-9	< 3	Listed

None of the components of this material are included in the Massachusetts Substance List nor are present at or above reportable levels.  
None of the components of this material are included in the New Jersey Substance List nor are present at or above reportable levels.  
None of the components of this material are included in the Pennsylvania Substance List nor are present at or above reportable levels.

## 16. OTHER INFORMATION

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 \*\*\***