



## MATERIAL SAFETY DATA SHEET

REVISION DATE: 10/11/2013

DATE PRINTED: 10/11/2013

REVISION NUMBER: 1

### 1. CHEMICAL PRODUCT

**PRODUCT NAME:** RCOP1000 PHOSPHONATE BUFFER

**PRODUCT CODE:** RCOP1000

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

**Health:** 3/3

**Fire:** 0/0

**Reactivity:** 0/0

**Special/Protective Equipment:** CORR/B

Emergency Phone:

INFOTRAC: 1-800-535-5053

OUTSIDE US: 1-352-323-3500

**DISTRIBUTED BY:** Rochester Midland Corporation  
155 Paragon Drive  
Rochester, NY 14624

### 2. HAZARDS IDENTIFICATION

#### EFFECTS FROM ACUTE EXPOSURE:

**INGESTION:** May cause burns to mucous membranes of mouth, throat, and digestive tract. May cause tissue damage.

**SKIN CONTACT:** May cause mild skin irritation.

**INHALATION:** May irritate mouth, nose, and throat. Massive inhalation may be harmful. May cause damage to nasal and respiratory passages.

**EYE CONTACT:** May cause mild 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
Ammonium hydroxide 1336-21-6	< 10	Not applicable	Not applicable
SULPHAMIC ACID 5329-14-6	10	Not applicable	Not applicable
Acetic acid 64-19-7	6	10 ppm	10 ppm 25 mg/m <sup>3</sup>

### 4. FIRST AID MEASURES

**INGESTION:** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**SKIN:** Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention if irritation persists.

**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.

# RCOP1000 PHOSPHONATE BUFFER

## 4. FIRST AID MEASURES

**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): None to boiling (C): None to boiling

**METHOD:** None

**FLAMMABLE LIMITS IN AIR**

**LOWER (%):** No data

**UPPER (%):** No data

**SENSITIVITY TO MECHANICAL IMPACT(Y/N):** NO

**SENSITIVITY TO STATIC DISCHARGE:** Sensitivity to static discharge is not expected.

**SUITABLE EXTINGUISHING MEDIA:** As for surrounding fire.

**FIRE FIGHTING PROCEDURES:** Use water spray to cool nearby containers and structures exposed to fire. 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, reclaim all possible. Absorb onto sand, earth, or inert material. Neutralize with lime, soda ash, or sodium bicarbonate. Hold for disposal.

**PERSONAL PRECAUTIONS:** Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal Protection.

**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. Avoid contact with skin and eyes. Emptied containers may retain hazardous properties. Do not cut, puncture or weld on or near the container. Keep container closed when not in use. Keep from freezing. Avoid storage at temperatures above 75 F.

**OTHER PRECAUTIONS:** No other spill procedures necessary.

**SPECIFIC USE(S):** Not applicable.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT:



**EXPOSURE CONTROLS:** None known.

**RESPIRATORY PROTECTION:** Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely.

**PROTECTIVE GLOVES:** Nitrile, neoprene, or other appropriate gloves are recommended to minimize hand skin contact.

**EYE PROTECTION:** Safety glasses are recommended to minimize eye contact.

**OTHER PERSONAL PROTECTION EQUIPMENT:** Eyewash fountains and safety showers must be easily accessible. It is the responsibility of the end user of this product to determine level of PPE required that is consistent with safe use of this product.

**VENTILATION:** Local exhaust ventilation recommended.

# RCOP1000 PHOSPHONATE BUFFER

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Clear, colorless liquid. Ammonia odor.	
BOILING POINT (F):	Not determined	(C) Not determined
VAPOR PRESSURE:	Not determined	
VAPOR DENSITY (AIR=1):	Not determined	
SOLUBILITY IN WATER:	Not determined	
SPECIFIC GRAVITY:	Not determined	
VOC Content (%):	Not determined	
EVAPORATION RATE:	Not determined	
PH:	4	

## 10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Carbon Dioxide. Carbon Monoxide. Ammonia. Oxides of Sodium. Oxides of Nitrogen.
INCOMPATIBILITY (MATERIALS TO AVOID):	Oxidizing materials. Acids. Hypochlorites (bleach.)
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:
Ammonium hydroxide 1336-21-6	< 10	Listed	Listed	Listed	Not Listed
SULPHAMIC ACID 5329-14-6	10	Listed	Listed	Listed	Not Listed
Acetic acid 64-19-7	6	Listed	Listed	Listed	Not Listed

## RCOP1000 PHOSPHONATE BUFFER

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Ammonium hydroxide 1336-21-6	< 10	1000 lb 454 kg	Not Listed	Not Listed
SULPHAMIC ACID 5329-14-6	10	Not Listed	Not Listed	Not Listed
Acetic acid 64-19-7	6	2270 kg 5000 lb	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Ammonium hydroxide 1336-21-6	< 10	<row><value>E</value></row> E
SULPHAMIC ACID 5329-14-6	10	Listed
Acetic acid 64-19-7	6	Listed

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

PRODUCT COMPOSITION CAS#	%	MARTK:
Ammonium hydroxide 1336-21-6	< 10	Listed
Acetic acid 64-19-7	6	Listed

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:
Ammonium hydroxide 1336-21-6	< 10	Listed
SULPHAMIC ACID 5329-14-6	10	Listed
Acetic acid 64-19-7	6	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:
Ammonium hydroxide 1336-21-6	< 10	Listed
Acetic acid 64-19-7	6	Listed

## 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 \*\*\*