



## MATERIAL SAFETY DATA SHEET

REVISION DATE: 10/11/2013

REVISION NUMBER: 1

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### 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<br>CAS#     | %    | ACGIH TLV      | OSHA PELs                      |
|---------------------------------|------|----------------|--------------------------------|
| Ammonium hydroxide<br>1336-21-6 | < 10 | Not applicable | Not applicable                 |
| SULPHAMIC ACID<br>5329-14-6     | 10   | Not applicable | Not applicable                 |
| Acetic acid<br>64-19-7          | 6    | 10 ppm         | 10 ppm<br>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<br>CAS#     | %    | TSCA:  | EINECS: | Canada DSL: | CA PROP 65: |
|---------------------------------|------|--------|---------|-------------|-------------|
| Ammonium hydroxide<br>1336-21-6 | < 10 | Listed | Listed  | Listed      | Not Listed  |
| SULPHAMIC ACID<br>5329-14-6     | 10   | Listed | Listed  | Listed      | Not Listed  |
| Acetic acid<br>64-19-7          | 6    | Listed | Listed  | Listed      | Not Listed  |

## RCOP1000 PHOSPHONATE BUFFER

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

| PRODUCT COMPOSITION<br>CAS#     | %    | Canada WHMIS:                 |
|---------------------------------|------|-------------------------------|
| Ammonium hydroxide<br>1336-21-6 | < 10 | <row><value>E</value></row> E |
| SULPHAMIC ACID<br>5329-14-6     | 10   | Listed                        |
| Acetic acid<br>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<br>CAS#     | %    | MARTK: |
|---------------------------------|------|--------|
| Ammonium hydroxide<br>1336-21-6 | < 10 | Listed |
| Acetic acid<br>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<br>CAS#     | %    | NJRTK: |
|---------------------------------|------|--------|
| Ammonium hydroxide<br>1336-21-6 | < 10 | Listed |
| SULPHAMIC ACID<br>5329-14-6     | 10   | Listed |
| Acetic acid<br>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<br>CAS#     | %    | PARTK: |
|---------------------------------|------|--------|
| Ammonium hydroxide<br>1336-21-6 | < 10 | Listed |
| Acetic acid<br>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 \*\*\*