



MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/16/2012

REVISION NUMBER:

2

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PREPARED BY:

EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **RCBU5002 BUFFER SOLUTION, pH 2.0**

PRODUCT CODE: RCBU5002

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: None/B

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

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

2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION: Large amounts may cause irritation, nausea, diarrhea.
SKIN CONTACT: May cause skin burns.
INHALATION: Inhalation of mist may cause damage to nasal and respiratory passages.
EYE CONTACT: May cause permanent eye damage.
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
Hydrochloric Acid 7647-01-0	< 1	Not applicable	Not applicable
Potassium chloride 7447-40-7	< 1	Not applicable	Not applicable

4. FIRST AID MEASURES

INGESTION: DO NOT INDUCE VOMITING. Drink several glasses of water or milk. Get immediate medical attention.
SKIN: Flush skin with large amounts of water. If irritation persists, get medical attention.
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: Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE AND EXPLOSION HAZARD DATA

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5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:**(F):** Not applicable **(C):** Not applicable**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:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:**SMALL SPILLS:**

Reclaim as much as possible.

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:**

Avoid contact with skin and eyes. Keep from freezing. Wash thoroughly after handling.

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:

None normally required.

PROTECTIVE GLOVES:

Chemical resistant gloves are recommended to minimize skin contact.

EYE PROTECTION:

Goggles. Safety Glasses.

**OTHER PERSONAL PROTECTION
EQUIPMENT:**

Eyewash fountains and safety showers must be easily accessible.

VENTILATION:

Ordinary ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Clear, colorless liquid. Odorless.

BOILING POINT (F):

212° F

(C) 100° C**VAPOR PRESSURE:**

Not determined

VAPOR DENSITY (AIR=1):

Not determined

SOLUBILITY IN WATER:

Infinite

SPECIFIC GRAVITY:

1.00

VOC Content (%):

Not determined

EVAPORATION RATE:

Not determined

PH:

2.0

10. STABILITY AND REACTIVITY

STABILITY DATA: STABLE
POLYMERIZATION: Will Not Occur.
HAZARDOUS DECOMPOSITION: Fumes. Hydrogen chloride gas.
INCOMPATIBILITY (MATERIALS TO AVOID): Metals. Cyanides. Alkali metals. Sulfides. Aldehydes.
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:
Hydrochloric Acid 7647-01-0	< 1	Listed	Listed	Listed	Not Listed
Potassium chloride 7447-40-7	< 1	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Hydrochloric Acid 7647-01-0	< 1	2270 kg 5000 lb	5000 lb RQ = 500 lb TPQ gas only	= 1.0 % de minimis concentration acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size
Potassium chloride 7447-40-7	< 1	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Hydrochloric Acid 7647-01-0	< 1	Listed
Potassium chloride 7447-40-7	< 1	Listed

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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:
Hydrochloric Acid 7647-01-0	< 1	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:
Hydrochloric Acid 7647-01-0	< 1	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:
Hydrochloric Acid 7647-01-0	< 1	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 ***