



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-4001, Chloride Adjuster**
PRODUCT CODE: 10103

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

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: May be harmful if swallowed.
SKIN CONTACT: Causes burns.
INHALATION: Harmful if inhaled.
EYE CONTACT: Causes eye burns.
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
Nitric acid 7697-37-2	1.3	2 ppm	2 ppm 5 mg/m ³

4. FIRST AID MEASURES

INGESTION: Do not induce vomiting. Drink two glasses of water. Call a physician.
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): Nonflammable (C): NA
METHOD: TCC

FLAMMABLE LIMITS IN AIR

- LOWER (%): NE

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- UPPER (%): NE

SENSITIVITY TO MECHANICAL IMPACT(Y/N):

NO

SENSITIVITY TO STATIC DISCHARGE:

Sensitivity to static discharge is not expected.

SUITABLE EXTINGUISHING MEDIA:

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:

NA

ENVIRONMENTAL PRECAUTIONS:

NA

METHODS FOR CLEANING UP:

NA

7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN
IN HANDLING AND STORAGE:**

Store in a cool, dry location away from incompatible materials. Use only in a well ventilated area. Keep container closed when not in use. 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):

NA

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:

EXPOSURE CONTROLS:

Exhaust ventilation.

RESPIRATORY PROTECTION:

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.

PROTECTIVE GLOVES:

Rubber gloves.

EYE PROTECTION:

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:

Colorless liquid.

BOILING POINT (F):

NA

(C) NA

VAPOR PRESSURE:

NA

VAPOR DENSITY (AIR=1):

NA

SOLUBILITY IN WATER:

NA

SPECIFIC GRAVITY:

1.00

VOC Content (%):

NE

VOV Content (%):

NE

EVAPORATION RATE:

NE

PH:

NE

10. STABILITY AND REACTIVITY

STABILITY DATA:

STABLE

POLYMERIZATION:

Will Not Occur.

HAZARDOUS DECOMPOSITION:

Toxic fumes.

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10. STABILITY AND REACTIVITY

INCOMPATIBILITY (MATERIALS TO AVOID): Contact with basic agents. Oxidizing materials. Reducing agents.

CONDITIONS/HAZARDS TO AVOID: Temperatures over 100° F.

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:
Nitric acid 7697-37-2	1.3	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Nitric acid 7697-37-2	1.3	1000 lb 454 kg	1000 lb RQ Listed	Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Nitric acid 7697-37-2	1.3	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:
Nitric acid 7697-37-2	1.3	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:
Nitric acid 7697-37-2	1.3	Listed

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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:
Nitric acid 7697-37-2	1.3	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 ***