



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-5501, Hardness, #5**
PRODUCT CODE: 10106

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

Health: 2/2 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: May cause skin burns.
INHALATION: May be harmful if inhaled. May cause burns.
EYE CONTACT: May Cause 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
Sodium Tetraborate 1303-96-4	4	2 mg/m ³	NA
SODIUM HYDROXIDE 1310-73-2	1	NA	2 mg/m ³
Sodium Sulfide 1313-84-4	1	NA	NA
Potassium Sodium Tartrate 6381-59-5	1	NA	NA

4. FIRST AID MEASURES

INGESTION: Get immediate medical attention.
SKIN: Wash with soap and water.
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

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FLASH POINT (F): Nonflammable (C): NA
METHOD: TCC

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:

As for surrounding fire.

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. Isolate traffic and ventilate area. Eliminate all ignition sources. Wear protective gear as necessary. Dike to prevent spread. Pick up absorbent material and put in suitable container for proper disposal.

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:**

Keep container closed. Store in a cool, dry location away from incompatible materials. Wash thoroughly after handling. 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
EQUIPMENT:**

None known.

VENTILATION:

Use local exhaust ventilation as needed if spill occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear liquid.

BOILING POINT (F): NA

(C) NA

VAPOR PRESSURE: NA

VAPOR DENSITY (AIR=1): N/A

SOLUBILITY IN WATER: NA

SPECIFIC GRAVITY: 1.04

VOC Content (%): NE

VOV Content (%): NE

EVAPORATION RATE: NE

9. PHYSICAL AND CHEMICAL PROPERTIES

PH: NA

10. STABILITY AND REACTIVITY

STABILITY DATA: STABLE
POLYMERIZATION: Will Not Occur.
HAZARDOUS DECOMPOSITION: Toxic fumes.
INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing materials. Acids.
CONDITIONS/HAZARDS TO AVOID: None known.

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:
Sodium Tetraborate 1303-96-4	4	Listed	Not Listed	Listed	Not Listed
SODIUM HYDROXIDE 1310-73-2	1	Listed	Listed	Listed	Not Listed
Sodium Sulfide 1313-84-4	1	Not Listed	Not Listed	Not Listed	Not Listed
Potassium Sodium Tartrate 6381-59-5	1	Not Listed	Not Listed	Not Listed	Not Listed

RF-5501, Hardness, #5

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Sodium Tetraborate 1303-96-4	4	Not Listed	Not Listed	Not Listed
SODIUM HYDROXIDE 1310-73-2	1	1000 lb 454 kg	Not Listed	Not Listed
Sodium Sulfide 1313-84-4	1	Not Listed	Not Listed	Not Listed
Potassium Sodium Tartrate 6381-59-5	1	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Sodium Tetraborate 1303-96-4	4	Listed
SODIUM HYDROXIDE 1310-73-2	1	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:
Sodium Tetraborate 1303-96-4	4	Listed
SODIUM HYDROXIDE 1310-73-2	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:
Sodium Tetraborate 1303-96-4	4	Listed
SODIUM HYDROXIDE 1310-73-2	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:
Sodium Tetraborate 1303-96-4	4	Listed
SODIUM HYDROXIDE 1310-73-2	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 *****