

MATERIAL SAFETY DATA SHEET

 REVISION DATE:
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PREPARED BY:

EH&S DEPARTMENT

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1. CHEMICAL PRODUCT

PRODUCT NAME:

RCHA7405 Hardness Buffer

PRODUCT CODE: RCHA7405

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

Health:	3/3	Fire:	tive Equipment:	0/0
Reactivity:	0/0	Special/Protec		None/B
NAME OF THE MANUFACTURER:		Rochester Midland Corporation 155 Paragon Drive Rochester, New York 14624 USA	Emergency Phone: INFOTRAC: 1-8 OUTSIDE US: 1	00-535-5053

2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION:	Harmful if swallowed.
SKIN CONTACT:	Causes severe burns.
INHALATION:	Possible damage to mucous membranes of nose and throat. May be harmful if inhaled.
EYE CONTACT:	Causes severe 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
Ammonium chloride 12125-02-9	7	10 mg/m ³	Not aplicable
Ammonium hydroxide 1336-21-6	< 15	Not applicable	Not applicable
EDTA Mg Salt 15954-95-7	< 1	Not applicable	Not applicable

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: INHALATION:	Remove contaminated clothing. Wash skin with water, using soap if available. 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: NOTES TO PHYSICIAN:	Immediately flush eyes with large amounts of water. Get immediate medical attention. None.

5. FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT:	(F): NA (C): Not determined
METHOD:	TCC
FLAMMABLE LIMITS IN AIR LOWER (%): UPPER (%):	NA NA
SENSITIVITY TO MECHANICAL IMPACT(Y/N): SENSITIVITY TO STATIC DISCHARGE: SUITABLE EXTINGUISHING MEDIA: FIRE FIGHTING PROCEDURES:	NO Sensitivity to static discharge is not expected. As for surrounding fire. Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

ACCIDENTAL RELEASE MEASURES 6.

SPILL	PROCE	DURES:
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Pick up with absorbant material. SMALL SPILLS: LARGE SPILLS: Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. **PERSONAL PRECAUTIONS:** Not applicable **ENVIRONMENTAL PRECAUTIONS:** Not applicable

7. HANDLING AND STORAGE

METHODS FOR CLEANING UP:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Keep container closed. Store in a well ventilated area. 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):	Not applicable.

EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

PROTECTIVE EQUIPMENT:



Not applicable

EXPOSURE CONTROLS: RESPIRATORY PROTECTION:	Use in a well ventilated area. 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: EYE PROTECTION: OTHER PERSONAL PROTECTION EQUIPMENT:	Rubber gloves. Goggles. None known.
VENTILATION:	Use only in well ventilated area.

PHYSICAL AND CHEMICAL PROPERTIES 9.

APPEARANCE AND ODOR: BOILING POINT (F):	Clear, colorless liquid. Ammonia odor. NA	(C) Not determined
VAPOR PRESSURE:	NA	
VAPOR DENSITY (AIR=1):	NA	
SOLUBILITY IN WATER:	Infinite	
SPECIFIC GRAVITY:	0.97	
VOC Content (%):	NA	
EVAPORATION RATE:	NA	
PH:	NA	

9. PHYSICAL AND CHEMICAL PROPERTIES

10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Oxides of Nitrogen. Ammonia.
INCOMPATIBILITY (MATERIALS TO	Oxidizing materials. Nitric acid. Chlorine bleach. Metals.
AVOID):	
CONDITIONS/HAZARDS TO AVOID:	High temperatures may cause decomposition.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Not Established EFFECTS OF CHRONIC EXPOSURE: Not established. OTHER TOXIC EFFECTS: Not established.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL	No data at this time
INFORMATION:	
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 chloride 12125-02-9	7	Listed	Listed	Listed	Not Listed
Ammonium hydroxide 1336-21-6	< 15	Listed	Listed	Listed	Not Listed
EDTA Mg Salt 15954-95-7	< 1	Not Listed	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Ammonium chloride	7	5000 lb	Not Listed	Not Listed
12125-02-9		2270 kg		
Ammonium hydroxide	< 15	1000 lb	Not Listed	Not Listed
1336-21-6		454 kg		
EDTA Mg Salt	< 1	Not Listed	Not Listed	Not Listed
15954-95-7				

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Ammonium chloride 12125-02-9	7	Listed
Ammonium hydroxide 1336-21-6	< 15	<row><value>E</value></row> E

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

PRODUCT COMPOSITION	%	MARTK:
CAS#		
Ammonium chloride 12125-02-9	7	Listed
Ammonium hydroxide 1336-21-6	< 15	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 chloride 12125-02-9	7	Listed
Ammonium hydroxide 1336-21-6	< 15	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 chloride 12125-02-9	7	Listed
Ammonium hydroxide 1336-21-6	< 15	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 ***