

RMHA7405 Hardness Buffer

5. FIRE AND EXPLOSION HAZARD DATA

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

FLAMMABLE LIMITS IN AIR

- LOWER (%): NA
- UPPER (%): NA

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. Water fog, carbon dioxide, foam, 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:

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):

NA

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS:

Use in a well ventilated area.

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:

Chemical resistant gloves.

EYE PROTECTION:

Safety Glasses. Goggles.

OTHER PERSONAL PROTECTION

None known.

EQUIPMENT:

VENTILATION:

Use only in well ventilated area.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Clear, colorless liquid. Ammonia odor.

BOILING POINT (F):

NA

(C) NA

VAPOR PRESSURE:

NA

VAPOR DENSITY (AIR=1):

NA

SOLUBILITY IN WATER:

Infinite

SPECIFIC GRAVITY:

Approx. 0.97

VOC Content (%):

NA

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9. PHYSICAL AND CHEMICAL PROPERTIES

VOV Content (%): NE
EVAPORATION RATE: NA
PH: Alkaline

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: LD50 oral-rat: 350 mg/kg (Ammonium Hydroxide), 1650 mg/kg (Ammonium Chloride)
EFFECTS OF CHRONIC EXPOSURE: NE
OTHER TOXIC EFFECTS: NE

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional office of the EPA.

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:
Ammonium chloride 12125-02-9	7	Puesto en Lista	Puesto en Lista	Puesto en Lista	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

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

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Ammonium chloride 12125-02-9	7	Puesto en Lista
Ammonium hydroxide 1336-21-6	< 15	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:
Ammonium chloride 12125-02-9	7	Puesto en Lista
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	Puesto en Lista
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	Puesto en Lista
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 ***