



MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/19/2012
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REVISION NUMBER: 1
 PREPARED BY: EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **MIDFLOC 1321L, Cationic Coagulant**
PRODUCT CODE: 117773

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 155 Paragon Drive Rochester, New York 14624 USA	Emergency Phone: INFOTRAC: 1-800-535-5053 OUTSIDE US: 1-352-323-3500
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2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION:	May cause severe irritation. Causes vomiting, nausea, and diarrhea.
SKIN CONTACT:	Causes mild skin irritation.
INHALATION:	Dust or mist may cause irritation.
EYE CONTACT:	May cause irritation and redness.
CHRONIC EFFECTS:	Prolonged or repeated eye contact may result in conjunctivitis. Repeated exposure may result in sensitization dermatitis. None specific.
EFFECTS/CARCINOGENICITY:	None listed under OSHA, IARC, or NTP.
ROUTES OF ENTRY:	Oral. Dermal - Skin. Eyes. Inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELs
Aluminum hydroxychloride 12042-91-0	30-40	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:	Remove contaminated clothing. Wash skin with water, using soap if available. Get medical attention if irritation persists.
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:	In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
NOTES TO PHYSICIAN:	None.

5. FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT:	(F): None (C): Not determined
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:	Product will not be expected to burn unless all the water is boiled away. Water fog, carbon dioxide, foam, dry chemical.
FIRE FIGHTING PROCEDURES:	Cool exposed containers with water spray after extinguishing fire. 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:	Product is toxic to fish in high concentrations. 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:	Keep from freezing. Store in a cool, dry area.
OTHER PRECAUTIONS:	Keep container closed when not in use. Do not heat to decomposition temperature.
SPECIFIC USE(S):	Keep out of reach of children.
	Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:

EXPOSURE CONTROLS:	None known.
RESPIRATORY PROTECTION:	Not normally required. If mist or vapors in air exceed exposure limit, use NIOSH approved organic vapor respirator.
PROTECTIVE GLOVES:	Rubber or plastic gloves recommended to minimize skin contact.
EYE PROTECTION:	Safety Glasses. Goggles.
OTHER PERSONAL PROTECTION EQUIPMENT:	Eyewash fountains and safety showers must be easily accessible. Appropriate protective clothing as needed to prevent skin contact.
VENTILATION:	Use only in well ventilated area. Mechanical ventilation as needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Organic Odor. Light yellow liquid.	
BOILING POINT (F):	As water	(C) Not determined
VAPOR PRESSURE:	As water	
VAPOR DENSITY (AIR=1):	As water	
SOLUBILITY IN WATER:	Not determined	
SPECIFIC GRAVITY:	1.27 - 1.29	
VOC Content (%):	NE	
EVAPORATION RATE:	As water	
PH:	3.2 - 3.6	

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10. STABILITY AND REACTIVITY

STABILITY DATA: STABLE
POLYMERIZATION: Will Not Occur.
HAZARDOUS DECOMPOSITION: If evaporated to dryness, as in a fire, material may burn, releasing: Oxides of Nitrogen. Oxides of Carbon. Hydrogen chloride gas. Hydrogen Cyanide. Phosgene. Aluminum compounds. Chloride compounds.
INCOMPATIBILITY (MATERIALS TO AVOID): Chlorine. Nitric acid. Contact with oxidizing agents. Peroxides.
CONDITIONS/HAZARDS TO AVOID: None anticipated

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:
Aluminum hydroxychloride 12042-91-0	30-40	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Aluminum hydroxychloride 12042-91-0	30-40	Not Listed	Not Listed	Not Listed

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

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

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

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 ***