



## MATERIAL SAFETY DATA SHEET

REVISION DATE: 10/28/2008  
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REVISION NUMBER: 5  
PREPARED BY: EH&S DEPARTMENT

### 1. CHEMICAL PRODUCT

PRODUCT NAME: **MIDFLOC 1312L, Flocculant**  
PRODUCT CODE: 118048

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: No adverse health effects are expected from swallowing.

SKIN CONTACT: May cause mild skin irritation.  
INHALATION: None in normal use. Inhalation of spray mist may be irritating.  
EYE CONTACT: May irritate eyes.  
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
No hazardous components. NONE	100	NA	NA

### 4. FIRST AID MEASURES

INGESTION: None known.  
SKIN: Wash with soap and water. Get medical attention if irritation persists.  
INHALATION: Not a hazard under normal use conditions. Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.  
EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.  
NOTES TO PHYSICIAN: None.

### 5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F): 200° C (C): NA  
METHOD: COC

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### 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:**

Water fog, carbon dioxide, foam, dry chemical.

**FIRE FIGHTING PROCEDURES:**

Cool exposed containers with water spray. Wear self-contained breathing equipment and rubber protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL PROCEDURES:

**SMALL SPILLS:**

Reclaim as much as possible.

**LARGE SPILLS:**

Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

**PERSONAL PRECAUTIONS:**

NA

**ENVIRONMENTAL PRECAUTIONS:**

Do not contaminate water.

**METHODS FOR CLEANING UP:**

Soak up with absorbent material and dispose of as hazardous waste. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

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

Avoid contact with skin and eyes. Wash thoroughly after handling.

**OTHER PRECAUTIONS:**

Use only with sufficient ventilation.

**SPECIFIC USE(S):**

NA

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT:



**EXPOSURE CONTROLS:**

Use in a well ventilated area.

**RESPIRATORY PROTECTION:**

Not normally required. If product is used in a manner which creates dust or mist above recommended exposure limits, a NIOSH/MSHA approved respirator with dust/mist filter may be needed in the absence of proper environmental controls.

**PROTECTIVE GLOVES:**

Impermeable latex gloves.

**EYE PROTECTION:**

Safety Glasses. Goggles.

**OTHER PERSONAL PROTECTION**

Appropriate protective clothing as needed to prevent skin contact.

**EQUIPMENT:**

**VENTILATION:**

General mechanical and/or local exhaust as needed to meet exposure limits if mist in air.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:**

Colorless Amber liquid. Amine odor.

**BOILING POINT (F):**

212° F

(C) NA

**VAPOR PRESSURE:**

NE

**VAPOR DENSITY (AIR=1):**

NE

**SOLUBILITY IN WATER:**

MISCIBLE

**SPECIFIC GRAVITY:**

1.14 - 1.18

**VOC Content (%):**

0

**VOV Content (%):**

NE

**EVAPORATION RATE:**

NE

**PH:**

4.0 - 7.0

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### 10. STABILITY AND REACTIVITY

<b>STABILITY DATA:</b>	STABLE
<b>POLYMERIZATION:</b>	Will Not Occur.
<b>HAZARDOUS DECOMPOSITION:</b>	Carbon Monoxide. Carbon Dioxide. Ammonia. Oxides of Nitrogen. Hydrogen chloride gas. Dimethylamine.
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	Do not use iron, copper, or aluminum for storage or delivery system. Strong oxidents, such as nitric acid, or hypochlorites.
<b>CONDITIONS/HAZARDS TO AVOID:</b>	None known.

### 11. TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY:</b>	Acute dermal (rabbit) LD50: > 10,000 mg/kg 4-hour inhalation (rat) LC50: >15,000 ppm Acute oral (rat) LD50: 4,670 mg/kg
<b>EFFECTS OF CHRONIC EXPOSURE:</b>	NOEL/oral/rat/90 days = 2000 mg/kg
<b>OTHER TOXIC EFFECTS:</b>	Not mutagenic in AMES Test. Not mutagenic in micronucleus test on mice.

### 12. ECOLOGICAL INFORMATION

<b>ECOTOXICOLOGICAL INFORMATION:</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Acute Alga Toxicity, seawater (ISO 10253): 72 hr Marine Algae (Skeletonema costatum): 0.75 mg/l (IC50) Growth Inhibition (OECD 201): 96 hr. Green Algae (Selenastrum capricornutum): > 10 - 100 mg/l IC50 Acute toxicity, freshwater (OECD 203): 96 hr. Zebra Fish (Brachydanio rerio): >10 - 100 mg/l LC50 Acute toxicity, seawater (PARCOM): 96 hr (Semi-static) Juvenile Turbot (Scophthalmus maximus): 1789 mg/l LC50 Acute Immobilization (OECD 202): 48 hr Water Flea (Daphnia magna): > 10 - 100 mg/l EC 50 Acute Invertebrate Toxicity, seawater (PARCOM): 48 hr Marine Copepod (Acartia tonsa): 204 mg/l ED 50 immobilization Information based on structurally similar material. Not readily biodegradable.
<b>CHEMICAL FATE INFORMATION:</b>	No data at this time.
<b>MOBILITY:</b>	NA
<b>PERSISTENCE/DEGRADABILITY:</b>	Not readily biodegradable.
<b>BIOACCUMULATIVE POTENTIAL:</b>	The product is not expected to bioaccumulate.
<b>OTHER ADVERSE EFFECTS:</b>	NA

### 13. DISPOSAL CONSIDERATIONS

<b>WASTE DISPOSAL METHODS:</b>	Dispose in accordance with Federal, State and Local regulations.
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### 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:
No hazardous components. NONE	100	Not Listed	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
No hazardous components. NONE	100	Not Listed	Not Listed	Not Listed

None of the components of this material are included in the Massachusetts Substance List nor are present at or above reportable levels.

None of the components of this material are included in the New Jersey Substance List nor are present at or above reportable levels.

None of the components of this material are included in the Pennsylvania Substance List nor are present at or above reportable levels.

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### 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 \*\*\***