



# SAFETY DATA SHEET

Revision Date 07/09/2015

REVISION NUMBER: 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product name** MIDFLOC® 1338E, Cationic Flocculant Emulsion

### Other means of identification

**Product code** 103340

**Synonyms** NONE

### Recommended use of the chemical and restrictions on use

**Recommended Use** Water treatment chemical. Flocculating agent.

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

See Distributor information.

#### **Importer**

Rochester Midland Limited  
5353 John Lucas Drive  
Suite 103  
Burlington, ON L7L 6G5  
Canada

#### **Distributor**

Rochester Midland Corporation  
155 Paragon Drive  
Rochester, New York 14624 USA

### Emergency telephone number

#### **EMERGENCY TELEPHONE**

INFOTRAC: 1-800-535-5053  
OUTSIDE U.S.: +1-352-323-3500  
CANUTEC: 613-996-6666

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)  
This chemical is not considered hazardous by the WHMIS 2015 Hazardous Products Regulation.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

#### **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** Opaque Viscous

**Physical state** Liquid

**Odor** Hydrocarbon

### Hazards not otherwise classified (HNOC)

No information available

Other Information**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| PRODUCT COMPOSITION  | CAS No.    | %         | TRADE SECRET |
|----------------------|------------|-----------|--------------|
| Petroleum distillate | 64742-47-8 | 16 - 20   | *            |
| Ethylene glycol      | 107-21-1   | 0 - 4.4   | *            |
| Ammonium chloride    | 12125-02-9 | 1.7 - 1.9 | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES**First aid measures

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | No hazards which require special first aid measures.                                                                             |
| <b>Eye contact</b>    | IF IN EYES: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin contact</b>   | IF ON SKIN: Wash with soap and water.                                                                                            |
| <b>Inhalation</b>     | IF INHALED: Remove to fresh air.                                                                                                 |
| <b>Ingestion</b>      | IF SWALLOWED: Clean mouth with water and drink afterwards plenty of water.                                                       |

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**Suitable extinguishing media

Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Dry chemical.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

**Sensitivity to Mechanical Impact** NONE.

**Sensitivity to Static Discharge** NONE.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool exposed containers with water spray. Spills produce extremely slippery surfaces.

**6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal Protection. Extremely slippery when spilled.

**Environmental precautions**

**Environmental precautions** Keep out of drains, sewers, streams, or other bodies of water.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush residue with water. Be aware of potential for surfaces to become slippery.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Do not use iron, copper, or aluminum containers or equipment. Store at room temperature. Store only in original container and keep closed.

**Incompatible materials** Strong oxidizing agents. Do not use iron, copper, or aluminum for storage or delivery system.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

| PRODUCT COMPOSITION             | ACGIH TLV                                                         | OSHA PEL                                                                              | NIOSH IDLH |
|---------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------|
| Ethylene glycol<br>107-21-1     | Ceiling: 100 mg/m <sup>3</sup> aerosol only                       | (vacated) Ceiling: 50 ppm<br>(vacated) Ceiling: 125 mg/m <sup>3</sup>                 | -          |
| Ammonium chloride<br>12125-02-9 | STEL: 20 mg/m <sup>3</sup> fume<br>TWA: 10 mg/m <sup>3</sup> fume | (vacated) STEL: 20 mg/m <sup>3</sup> fume<br>(vacated) TWA: 10 mg/m <sup>3</sup> fume | -          |

**Appropriate engineering controls**

**ENGINEERING CONTROLS** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Safety glasses are recommended to minimize eye contact.

**Skin and body protection** Chemical resistant gloves are recommended to minimize skin contact. It is the responsibility of the end user of this product to determine level of PPE required that is consistent with safe use of this product.

**RESPIRATORY PROTECTION** Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state** Liquid

|                               |                          |                         |                          |
|-------------------------------|--------------------------|-------------------------|--------------------------|
| Appearance                    | Opaque Viscous           | Odor                    | Hydrocarbon              |
| Color                         | White or light green     | Odor threshold          | No information available |
| <u>Property</u>               | <u>Values</u>            | <u>Remarks • Method</u> |                          |
| pH                            | 7                        | +/- 1                   |                          |
| Melting point/freezing point  | -7 - -5 °C / 19 - 23 °F  |                         |                          |
| Boiling point / boiling range | 100 °C / 212 °F          |                         |                          |
| Flash point                   | > 94 °C / > 201 °F       |                         |                          |
| Evaporation rate              | < 1                      |                         |                          |
| Flammability (solid, gas)     | No information available |                         |                          |
| Flammability Limit in Air     |                          |                         |                          |
| Upper flammability limit:     | No information available |                         |                          |
| Lower flammability limit:     | No information available |                         |                          |
| Vapor pressure                | No information available |                         |                          |
| Vapor density                 | No information available |                         |                          |
| Specific gravity              | 1.03                     |                         |                          |
| Water solubility              | No information available |                         |                          |
| Solubility in other solvents  | No information available |                         |                          |
| Partition coefficient         | No information available |                         |                          |
| Autoignition temperature      | No information available |                         |                          |
| Decomposition temperature     | No information available |                         |                          |
| Kinematic viscosity           | > 7 mm <sup>2</sup> /s   |                         |                          |
| Dynamic viscosity             | No information available |                         |                          |
| Explosive properties          | No information available |                         |                          |
| Oxidizing properties          | No information available |                         |                          |
| <u>Other Information</u>      |                          |                         |                          |
| Softening point               | No information available |                         |                          |
| VOC (EPA METH.24) (G/L):      | No information available |                         |                          |
| Density                       | No information available |                         |                          |
| Bulk density                  | No information available |                         |                          |

## 10. STABILITY AND REACTIVITY

### **REACTIVITY**

No data available

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### **CONDITIONS TO AVOID**

Extremes of temperature and direct sunlight.

### **Incompatible materials**

Strong oxidizing agents. Do not use iron, copper, or aluminum for storage or delivery system.

### **Hazardous Decomposition Products**

Ammonia. Oxides of Carbon. Oxides of Nitrogen. Hydrogen chloride.

## 11. TOXICOLOGICAL INFORMATION

### **Information on likely routes of exposure**

|                            |                    |
|----------------------------|--------------------|
| <b>Product Information</b> | No data available  |
| <b>Inhalation</b>          | No data available. |

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| <b>Eye contact</b>  | May cause slight irritation.                             |
| <b>Skin contact</b> | Prolonged contact may lead to irritation and dermatitis. |
| <b>Ingestion</b>    | Large amounts may cause irritation, nausea, diarrhea.    |

| PRODUCT COMPOSITION                | Oral LD50            | Dermal LD50             | Inhalation LC50        |
|------------------------------------|----------------------|-------------------------|------------------------|
| Petroleum distillate<br>64742-47-8 | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 5.2 mg/L ( Rat ) 4 h |
| Ethylene glycol<br>107-21-1        | = 4000 mg/kg ( Rat ) | -                       | -                      |
| Ammonium chloride<br>12125-02-9    | = 1410 mg/kg ( Rat ) | -                       | -                      |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.  
**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information****12. ECOLOGICAL INFORMATION****Ecotoxicity**

| PRODUCT COMPOSITION                | Algae/aquatic plants                                         | Fish                                                                                                                                                                                                                                                                                                     | Crustacea                           |
|------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Petroleum distillate<br>64742-47-8 | -                                                            | 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static                                                                                                                                                        | -                                   |
| Ethylene glycol<br>107-21-1        | 6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 16000: 96 h Poecilia reticulata mg/L LC50 static 41000: 96 h Oncorhynchus mykiss mg/L LC50 14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static | 46300: 48 h Daphnia magna mg/L EC50 |
| Ammonium chloride<br>12125-02-9    | -                                                            | 209: 96 h Cyprinus carpio mg/L LC50 static                                                                                                                                                                                                                                                               | -                                   |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

| PRODUCT COMPOSITION         | Partition coefficient |
|-----------------------------|-----------------------|
| Ethylene glycol<br>107-21-1 | -1.93                 |

Other adverse effects No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

### 14. TRANSPORT INFORMATION

#### DEPT. OF TRANSPORTATION

**Proper shipping name** Not Regulated by DOT

#### TDG

Not Regulated

### 15. REGULATORY INFORMATION

#### International Inventories

|               |          |
|---------------|----------|
| TSCA          | Complies |
| DSL/NDL       | Complies |
| EINECS/ELINCS | Complies |
| ENCS          | Complies |
| IECSC         | Complies |
| KECL          | Complies |
| PICCS         | Complies |
| AICS          | Complies |

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### US Federal Regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| PRODUCT COMPOSITION            | SARA 313 - Threshold Values % |
|--------------------------------|-------------------------------|
| Ethylene glycol - 107-21-1     | 1.0                           |
| Ammonium chloride - 12125-02-9 | 1.0                           |

#### SARA 311/312 Hazard Categories

|                                   |    |
|-----------------------------------|----|
| ACUTE HEALTH HAZARD               | No |
| CHRONIC HEALTH HAZARD             | No |
| FIRE HAZARD                       | No |
| Sudden release of pressure hazard | No |
| REACTIVE HAZARD                   | No |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| PRODUCT COMPOSITION             | Hazardous Substances<br>RQs (in LBS) | U.S. - CERCLA/SARA -<br>Section 302 Extremely<br>Hazardous Substances<br>TPQs |
|---------------------------------|--------------------------------------|-------------------------------------------------------------------------------|
| Ethylene glycol<br>107-21-1     | 5000                                 |                                                                               |
| Ammonium chloride<br>12125-02-9 | 5000                                 |                                                                               |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| PRODUCT COMPOSITION             | NJRTK: | MARTK: | PARTK: |
|---------------------------------|--------|--------|--------|
| Ethylene glycol<br>107-21-1     |        | Listed | Listed |
| Ammonium chloride<br>12125-02-9 | 0093   | Listed | Listed |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION****NFPA**

Health hazards 1

Flammability 1

Instability 0

Physical and Chemical Properties -

**HMIS**

Health hazards 1

Flammability 1

Physical hazards 0

Personal protection B

Revision Date

07/09/2015

Revision Note

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

\*\*\* END OF SDS \*\*\*