



# SAFETY DATA SHEET

Revision Date 07/02/2015

REVISION NUMBER: 1

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

### Product identifier

**Product name** MIDFLOC® 1345E, Cationic Flocculant Emulsion

### Other means of identification

**Product code** 118038

**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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is considered hazardous by the WHMIS 2015 Hazardous Products Regulation.

Skin corrosion/irritation	Category 2
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### Label elements

#### Emergency Overview

#### **WARNING**

#### **Hazard statements**

Causes skin irritation

**Appearance** Viscous White**Physical state** Liquid**Odor** Hydrocarbon**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell  
 IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation occurs: Get medical advice/attention  
 Take off contaminated clothing and wash before reuse

**Hazards not otherwise classified (HNOC)**

No information available

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

PRODUCT COMPOSITION	CAS No.	%	TRADE SECRET
Distillates, petroleum, hydrotreated light	64742-47-8	20 - 24	*
Ethoxylated alcohol	68551-12-2	0 - 3.5	*
Ethoxylated alcohol	68439-50-9	0 - 3.5	*
Ethoxylated alcohol	68002-97-1	0 - 3.5	*
Citric acid, monohydrate	5949-29-1	<= 2	*
Ethylene Oxide	75-21-8	< 0.1 PPM	*
Acrylamide	79-06-1	< 0.1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret. Components listed above that have a zero minimum and a common maximum range are interchangeably used components based on availability. Only one of these components is contained in the product up to the maximum amount noted.

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

**General advice** Call a POISON CENTER or doctor/physician if you feel unwell.

**Eye contact** IF IN EYES: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.

**Inhalation** IF INHALED: Remove to fresh air.

**Ingestion** 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.

## 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.

**Environmental precautions**

**Environmental precautions** Should not be released into the environment.

**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** Be aware of potential for surfaces to become slippery. Dike to collect large liquid spills. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Flush residue with water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

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

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

**Storage Conditions** Store at room temperature. Do not use iron, copper, or aluminum containers or equipment.

**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 Oxide 75-21-8	TWA: 1 ppm	STEL: 5 ppm see 29 CFR 1910.1047 TWA: 1 ppm	800 ppm
Acrylamide 79-06-1	TWA: 0.03 mg/m <sup>3</sup> inhalable fraction and vapor	S* (vacated) S* (vacated) TWA: 0.03 mg/m <sup>3</sup> TWA: 0.3 mg/m <sup>3</sup>	60 mg/m <sup>3</sup>

**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. Appropriate protective clothing as needed to prevent 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**

<b>Physical state</b>	Liquid		
<b>Appearance</b>	Viscous White	<b>Odor</b>	Hydrocarbon
<b>Color</b>	White	<b>Odor threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH	5	+/- 1	
<b>Melting point/freezing point</b>	No information available		
<b>Boiling point / boiling range</b>	100 °C / 212 °F		
<b>Flash point</b>	> 94 °C / > 200 °F		
<b>Evaporation rate</b>	No information available		
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limit in Air</b>			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
<b>Vapor pressure</b>	No information available		
<b>Vapor density</b>	No information available		
<b>Specific gravity</b>	1.0		
<b>Water solubility</b>	No information available		
<b>Solubility in other solvents</b>	No information available		
<b>Partition coefficient</b>	No information available		
<b>Autoignition temperature</b>	No information available		
<b>Decomposition temperature</b>	No information available		
<b>Kinematic viscosity</b>	> 20.5 mm <sup>2</sup> /s		
<b>Dynamic viscosity</b>	No information available		
<b>Explosive properties</b>	No information available		
<b>Oxidizing properties</b>	No information available		

**Other Information**

<b>Softening point</b>	No information available
<b>VOC (EPA METH.24) (G/L):</b>	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

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

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** No data available

**Inhalation** No data available.

**Eye contact** May cause slight irritation.

**Skin contact** Causes skin irritation.

**Ingestion** Large amounts may cause irritation, nausea, diarrhea.

PRODUCT COMPOSITION	Oral LD50	Dermal LD50	Inhalation LC50
Distillates, petroleum, hydrotreated light 64742-47-8	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h
Ethylene Oxide 75-21-8	= 72 mg/kg ( Rat )	-	= 800 ppm ( Rat ) 4 h

### 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.

PRODUCT COMPOSITION	ACGIH	IARC	NTP	OSHA
Ethylene Oxide 75-21-8	A2	Group 1 Group 2A	Known	X
Acrylamide 79-06-1	A3	Group 2A	Reasonably Anticipated	X

**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
Distillates, petroleum, hydrotreated light 64742-47-8	-	2.4: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 45: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 2.2: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	-
Citric acid, monohydrate 5949-29-1	-	1516: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	-
Ethylene Oxide 75-21-8	-	73 - 96: 96 h <i>Pimephales promelas</i> mg/L LC50	137 - 300: 48 h <i>Daphnia magna</i> mg/L LC50
Acrylamide 79-06-1	-	81 - 150: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 137 - 191: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 74 - 150: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 124: 96 h <i>Pimephales promelas</i> mg/L LC50 static 103 - 115: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through	98: 48 h <i>Daphnia magna</i> mg/L EC50 98: 48 h <i>Daphnia magna</i> mg/L EC50 Flow through

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

PRODUCT COMPOSITION	Partition coefficient
Citric acid, monohydrate 5949-29-1	-1.72
Ethylene Oxide 75-21-8	-0.3
Acrylamide 79-06-1	-1.24

**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**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**Legend:**

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

DSL/NDSL - 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 does not contain any 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 Oxide - 75-21-8	0.1
Acrylamide - 79-06-1	0.1

**SARA 311/312 Hazard Categories**

ACUTE HEALTH HAZARD	YES
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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

PRODUCT COMPOSITION	Hazardous Substances RQs (in LBS)	U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
Ethylene Oxide 75-21-8	10	1000

Acrylamide 79-06-1	5000	1000 10000
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**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals

PRODUCT COMPOSITION	CA PROP 65:
Ethylene Oxide - 75-21-8	Listed Reproductive - Female Reproductive - Male Developmental
Acrylamide - 79-06-1	Listed Reproductive - Male Developmental

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

PRODUCT COMPOSITION	NJRTK:	MARTK:	PARTK:
Ethylene Oxide 75-21-8	0882	Listed	Listed
Acrylamide 79-06-1	0022	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 07/02/2015

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 \*\*\***