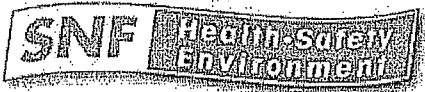


Dewatering polymer



## Material Safety Data Sheet

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

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**Product name :** CLARIFLOC (R) WE-973 POLYMER  
**Company :** POLYDYNE INC.  
Riceboro, GA 31323  
PO Box 279  
United States  
**Telephone :** 1-800-848-7659  
**Telefax :** (912)-884-8770  
**E-mail :**  
**Emergency telephone number :** 1-800-424-9300  
**Product Use :** Processing aid for industrial applications.

### 2. HAZARDS IDENTIFICATION

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#### Appearance and Odor

**Form :** Viscous liquid  
**Color :** Milky  
**Odor :** Aliphatic

#### Emergency Overview :

Spills produce extremely slippery surfaces.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Identification :** Cationic water-soluble polymer in emulsion.

#### Regulated Components:

None.

### 4. FIRST AID MEASURES

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**Inhalation :** No hazards which require special first aid measures.

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**Skin contact :** Wash off immediately with soap and plenty of water. In case of persistent skin irritation, consult a physician.

**Eye contact :** Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

**Ingestion :** The product is not considered toxic based on studies on laboratory animals.

### 5. FIRE-FIGHTING MEASURES

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**Suitable extinguishing media :** Water. Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Dry powder.

**Precautions :** Spills produce extremely slippery surfaces.

**Special protective equipment for firefighters :** No special protective equipment required.

**Flash point :** Does not flash.

**Autoignition temperature :** Does not ignite

### 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions :** No special precautions required.

**Environmental precautions :** As with all chemical products, do not flush into surface water. Do not contaminate water.

**Methods for cleaning up :** Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

### 7. HANDLING AND STORAGE

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#### Handling

**Safe handling advice :** Avoid contact with skin and eyes. When preparing the working solution ensure there is adequate ventilation. When using do not smoke.

#### Storage

Keep in a dry cool place (0 - 30 °C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Engineering measures**

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

**Personal protective equipment**

**Respiratory protection :** In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection :** Rubber gloves.

**Eye protection :** Safety glasses with side-shields. Do not wear contact lenses where this product is used.

**Skin and body protection :** Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

**Hygiene measures**

Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Form :** Viscous liquid

**Color :** Milky

**Odor :** Aliphatic

**pH :** 3-7 @ 5 g/l

**Melting point/range :** Not applicable

**Flash point :** Does not flash

**Autoignition temperature :** Does not ignite

**Vapor pressure :** 0.13 @ 20°C

**Approx. bulk density :** 1.04

**Water solubility :** See Technical Bulletin

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**10. STABILITY AND REACTIVITY**

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**Stability :** Stable. Hazardous polymerisation does not occur.

**Materials to avoid :** Oxidizing agents may cause exothermic reactions.

**Hazardous decomposition products :** Thermal decomposition may produce. Hydrogen chloride gas. Nitrogen oxides (NO<sub>x</sub>). Carbon oxides (CO<sub>x</sub>).

## 11. TOXICOLOGICAL INFORMATION

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### Acute toxicity

**Skin :** The results of testing on rabbits showed this material to be non-toxic even at high dose levels.

**Oral :** LD50/oral/rat > 5000 mg/kg.

**Inhalation :** The product is not expected to be toxic by inhalation.

### Irritation

**Skin :** May cause skin irritation with susceptible persons.

**Eyes :** May cause eye irritation with susceptible persons.

**Sensitization :** The results of testing on guinea pigs showed this material to be non-sensitizing.

**Chronic toxicity :** A two-year feeding study on rats did not reveal adverse health effects. A one-year feeding study on dogs did not reveal adverse health effects. Prolonged skin contact may defat the skin and produce dermatitis.

## 12. ECOLOGICAL INFORMATION

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### Aquatic toxicity

**Toxicity to fish :** LC50/96 hours > 10-100 mg/l (OECD 203), (Based on the toxicity of the components using the Conventional Method).

**Toxicity to daphnia :** EC(I)50/Daphnia m./48 hours > 50 mg/L, (Based on the toxicity of the components using the Conventional Method).

**Toxicity to algae :** Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

### Environmental fate

**Hydrolysis :** At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.

### Other ecological information :

The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

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**Disposal :** In accordance with local, state and federal regulations.

**Container :** Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local, state and federal regulations.

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**14. TRANSPORT INFORMATION**

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**DOT**

Not classified as dangerous in the meaning of DOT regulations.

**IMDG/IMO**

Not classified as dangerous in the meaning of IMO/IMDG regulations..

**ICAO/IATA**

Not classified as dangerous in the meaning of ICAO/IATA regulations..

**15. REGULATORY INFORMATION**

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**International Inventories**

**European Union (EINECS/ELINCS)** : All components of this product are either listed on the inventory or are exempt from listing.

**USA (TSCA)** : All components of this product are either listed on the inventory or are exempt from listing.

**Canada (DSL)** : All components of this product are either listed on the inventory or are exempt from listing.

**Canada (NDSL)**: All components listed on inventory.

**Australia (AICS)** : All components of this product are either listed on the inventory or are exempt from listing.

**China (IECSC)** : All components of this product are either listed on the inventory or are exempt from listing.

**Japan (ENCS)** : All components of this product are either listed on the inventory or are exempt from listing.

**Korea (ECL)** : All components of this product are either listed on the inventory or are exempt from listing.

**Philippines (PICCS)** : All components of this product are either listed on the inventory or are exempt from listing.

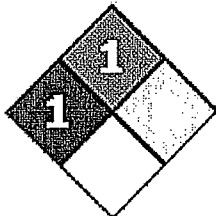
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16. OTHER INFORMATION

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**NFPA and HMIS Ratings :**



**NFPA :**

Health :	1
Flammability :	1
Instability :	0

**HMIS :**

Health :	1
Flammability :	1
Physical Hazard :	0

**This MSDS was prepared in accordance with the following :**

ISO 11014-1: Material Safety Data Sheet for Chemical Products  
ANSI Z400.1-2004; Material Safety Data Sheets - Preparation

**Contact :** Regulatory Affairs Manager: (912)-880-8014

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The data in this Material Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.