

# SAFETY DATA SHEET



**F-20 Enviro Clear**

**Issue Date** 30-Jan-15

**Version** 1

Diversified Waterscapes, Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals that are experts in ventilation, toxicology and fire prevention; as necessary or appropriate to use and understand the data contained in this SDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this SDS and any other information regarding hazards or safety (2) furnish this same information to each of its customers for the product (3) request its customers to notify their employees, customers and other users of the product of this information.

## 1. Product and Company Identification

### Product Identifier

**Product Name** F-20 Enviro Clear

**Product Description** Flocculation Agent

**Chemical Family** Cationic

### Details of the Supplier of the Safety Data Sheet

#### Manufacturer Address

Diversified Waterscapes, Inc  
27324 Camino Capistrano  
Suite 213  
Laguna Niguel, CA 92677-1118

### Emergency Telephone Numbers

**Company Phone Number** 949-582-5414  
**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. Hazards Identification

**Emergency Overview** WARNING: This Product is an eye and skin irritant. Contains petroleum distillates and prolonged contact with mists may cause skin, eye and respiratory tract irritation. Continued overexposure may cause headache and dizziness. Ingestion may cause lung complications.  
CAUTION Slippery when wet!

**Primary Routes of Exposure** Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route for entry for liquefied gases.

**Sensitization** There is no evidence of a skin-sensitizing potential.

### Chronic toxicity

**Carcinogenicity** None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP; OSHA or ACGIH as a carcinogen.

**Reproductive toxicity** No data for product. No effects anticipated.

**Genotoxicity** No data was available concerning mutagenic activity. The chemical structure Does not suggest a specific alert for such an effect. The product has not been Tested. The statement has been derived from the properties of the individual components.

**Signs and Symptoms of Overexposure** Eye irritation, skin irritation, CNS depression.

### Potential Environmental Effects

**Aquatic toxicity** Acutely harmful for Aquatic organisms

### 3. Composition/Information on Ingredients

<u>CAS#</u>	<u>Content (W/W)</u>	<u>Chemical Name</u>
64742-47-8	15.0 – 40.0 %	Distillates (petroleum), hydrotreated light
69418-26-4	30.0 – 60.0 %	Ethanaminium, N, N, N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-chloride, polymer with 2-propenamide
68131-40-8	1.0 – 5.0 %	Alcohols, C11-15 secondary, ethoxylated

### 4. First Aid Measures

#### FIRST AID PROCEDURES

<b><u>General Advice</u></b>	Immediately remove contaminated clothing.
<b><u>If Ingestion</u></b>	Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.
<b><u>Eye Contact</u></b>	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
<b><u>Skin Contact</u></b>	Wash affected areas thoroughly with soap and water. Seek medical attention.
<b><u>Inhalation:</u></b>	If difficulties occur after vapor/aerosol has been inhaled, remove to fresh air and seek medical attention.
<b><u>Note to physician</u></b>	Treat according to symptoms (decontamination, vital function), no known specific antidote.

### 5. Fire-Fighting Measures

<b><u>Flash Point</u></b>	> 93 ° C
<b><u>Flammability</u></b>	Not highly flammable.
<b><u>Self-ignition temperature</u></b>	Not self igniting
<b><u>Suitable extinguishing media</u></b>	Dry powder, foam, water spray
<b><u>UNSUITABLE Extinguishing media</u></b>	Water jet for Safety Reasons
<b><u>Additional Information</u></b>	If water is used, restrict pedestrian and vehicular traffic in area where slip hazard may exist
<b><u>Hazards during Fire-Fighting</u></b>	Harmful Vapors. Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire. Spilled product is slippery underfoot. Very slippery when wet.
<b><u>Protective equipment for Fire Fighting</u></b>	Wear a self-contained breathing apparatus
<b><u>Further Information</u></b>	The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

### 6. Accidental Release Measures

<b><u>Personal Precautions</u></b>	Use personal protective clothing. Keep people away and stay on the upwind side.
<b><u>Environmental Precautions</u></b>	Do not discharge into drains/surface waters/groundwater.
<b><u>Clean-Up</u></b>	Spills should be contained solidified, and placed in suitable containers for disposal.

### 7. Handling and Storage

#### **HANDLING**

<b><u>General Advice</u></b>	Keep away from sources of ignition – No smoking.
<b><u>Protection against fire and explosion</u></b>	Take precautionary measures against static discharges.

#### **STORAGE**

<b><u>General Advice</u></b>	Keep container tightly closed and dry; store in a cool place.
<b><u>Storage Stability</u></b>	Avoid extreme heat. Avoid freezing.
<b><u>Temperature Tolerance</u></b>	Avoid freezing.

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

#### Distillates (petroleum), hydrotreated light

**ACGIH** TWA value 200 mg/m<sup>3</sup> Non-aerosol hydrocarbon vapor; Application restricted to conditions in which there are negligible aerosol exposures

#### Skin Designation

Non-aerosol (total hydrocarbon vapor); The substance can be absorbed through skin.

#### Respiratory Protection

Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator.

#### Body Protection

Impermeable protective clothing.

#### Eye Protection

Tightly fitting safety goggles (chemical goggles) and face shield.

#### Hand Protection

Chemical resistant protective gloves.

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

## 9. Physical and Chemical Properties

<b><u>State of Matter</u></b>	Liquid
<b><u>Form</u></b>	Emulsion
<b><u>Odor</u></b>	Mineral, Oil-Like
<b><u>Color</u></b>	Light blue Cream,
<b><u>pH value</u></b>	Approx. 4
<b><u>Density</u></b>	Approx. 1.0 g/cm <sup>3</sup> (20° C)
<b><u>Viscosity, dynamic</u></b>	1,000 – 1,500 mPas
<b><u>% Volatiles</u></b>	23.9%
<b><u>Solubility in water</u></b>	Dispersible
<b><u>Miscibility with water</u></b>	of low solubility
<b><u>Other Information</u></b>	If necessary, information on other physical and chemical parameters is indicated in this section

## 10. Stability and Reactivity

<b><u>Conditions to avoid</u></b>	Avoid extreme temperatures. Avoid freezing. Avoid all sources of ignition: heat, sparks, open flame.
<b><u>Substances to avoid</u></b>	Reactive chemicals.
<b><u>Hazardous reactions</u></b>	No hazardous reactions when stored and handled according to instructions. The product is chemically stable.
<b><u>Decomposition products</u></b>	No hazardous decomposition products if stored and handled as prescribed/indicated.
<b><u>Corrosion to metals</u></b>	No corrosive effect on metal.
<b><u>Oxidizing properties</u></b>	Not fire propagating.

## 11. Toxicology Information

### **ACUTE TOXICOLOGY**

#### **Oral**

**Type of value:** LD50

**Species:** Rat

**Value:** >2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

#### **Eye**

**Species:** Rabbit

**Result:** Irritant

#### **Irritation/corrosion**

**Other information:**

The product has not been tested. The statements on toxicology have been derived from products of similar structure and composition.

#### **Aspiration Hazard**

No aspiration hazard expected.

## 12. Ecology Information

### Aquatic Toxicity

**Information on:** cationic polyacrylamide

#### Assessment of aquatic toxicity:

The hydrolysis products are not acutely harmful to aquatic organisms. Acute effects on aquatic organisms are due to cationic charge of the polymer, which is quickly neutralized in natural water courses by irreversible adsorption onto particles, hydrolysis and dissolved organic carbon. Fish and aquatic toxicity are drastically reduced by rapid irreversible adsorption onto suspended and/or dissolved organic matter.

### Fish

Acute – *Oncorhynchus mykiss*/LC50 (96h): 10-100 mg/l (under static conditions in the presence of 10mg/L humic acid). The product has not been tested. The statement has been derived from products of a similar structure or composition.

### Aquatic Invertebrates

Acute: - *daphnia*/EC50 (48h): 10-100mg/l (under static conditions in the presence of 10 mg/L humic acid).

**Degradability/Persistence** Information on: cationic polyacrylamide

### Hydrolysis

In contact with water the substance will hydrolyse rapidly.

### Environmental Mobility

Information on: cationic polyacrylamide  
Assessment transport between environmental compartments: Adsorption to solid soil phase expected.

## 13. Disposal Considerations

**Waste Disposal of Substance** Dispose of in accordance with national, state, and local regulations. Do not discharge into drains/surface waters/groundwater.

### Container Disposal

Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state, and local regulations.

### RCRA

Not a hazardous waste under RCRA (40 CFR 261).

## 14. Transport Information

**Land Transport:** Not classified as dangerous goods under transport regulations.

### USDOT

**Sea Transport:** Not classified as dangerous goods under transport regulations.

### IMDG

**Air Transport:** Not classified as dangerous goods under transport regulations.

### IATA/CAO

**Further Information:** This product is considered to be an oil per the definitions in 49 CFR 130.2. If packed in a container with a capacity of 3,500 gallons or more, the Communication Requirements at 49 CFR 130.11 and the Response Plan Requirements at 49 CFR 130.31 and 130.33 apply to Domestic transportation by motor vehicles and rolling stock. Notification of releases to the National Response Center (NRC), 800-424-8802, may be necessary. In the Washington, DC metropolitan area, call 202-426-2675.

## 15. Regulatory Information

### FEDERAL REGULATIONS

**Registration Status:** Chemical TSCA, US released/listed

**OSHA hazard category:** Chronic target organ effects reported; ACGIH TLV established

**EPCRA 311/312 (Hazard categories):** Acute/Chronic

### CERCLA RQ

5000 LBS

1000 LBS

### CAS Number

79-06-1; 124-04-9

1310-73-2

### Chemical name

acrylamide; adipic acid

Sodium Hydroxide

### STATE REGULATIONS

#### State RTK

MA, NJ, PA

#### CAS Number

64742-47-8

#### Chemical name

Distillates (petroleum), hydrotreated light

**16. Other Information****NFPA Hazard Codes:****Health: 1      Fire: 1      Reactivity: 0      Special: -****HMIS III rating:****Health: 1      Flammability: 1      Physical Hazard: 0**

**NFPA** and **HMIS** use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazard of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

**Disclaimer:**      The information contained herein is based on data considered accurate. However; no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Diversified Waterscapes, Inc. assumes no responsibility for personal injury or property damage to the Vendee, Users or Third Parties caused by the material. Such Vendees or Users assume all risks associated with the use of this material.

End of Safety Data Sheet