

**SECTION 1: IDENTIFICATION****1.1. Product Identifier**

Product Form: Mixture

Product Name: Envirofloc CF-544

**1.2. Intended Use of the Product**

Processing aid for industrial applications

**1.3. Name, Address, and Telephone of the Responsible Party****Company**

Chemstream, Inc.

511 Railroad Ave.

Homer City, PA 15748

(724) 915 - 8388

[www.chemstream.com](http://www.chemstream.com)**1.4. Emergency Telephone Number**

Emergency Number : Call CHEMTREC Day or Night 1 (800) 424 - 9300 / +1 (703) 527 - 3887

**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture**

GHS-US/CA Classification

Not classified

**2.2. Label Elements**

GHS-US/CA Labeling

Hazard Pictograms (GHS-US):

None

Signal Word (GHS-US):

None

Hazard Statements (GHS-US):

None

Precautionary Statements (GHS-US):

None

**2.4. Unknown Acute Toxicity (GHS-US/CA)**

No data available

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substance**

Hazardous Ingredient(s)	% wt.*	CAS No.
Contains no reportable hazardous substances		

**SECTION 4: FIRST AID MEASURES****4.1. Description of First-aid Measures**

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** Move to fresh air. No hazard which would require special first aid measures.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**First-aid Measures After Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Alternatively, rinse immediately with Diphoterine. Get medical attention if irritation develops and persists.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Get medical attention if symptoms occur.

**4.2. Most Important Symptoms and Effects Both Acute and Delayed**

None under normal use

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### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

None under normal use.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** In case of fire: Water, Water spray, Foam, Carbon dioxide (CO<sub>2</sub>), Dry Powder

**Unsuitable Extinguishing Media:** None

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable

**Explosion Hazard:** No unusual fire or explosion hazards noted.

**Reactivity:** Spills produce extremely slippery surfaces

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Move containers from fire area if you can do so without risk.

**Protection During Firefighting:** Wear self contained breathing apparatus and protective suit.

**Hazardous Combustion Products:** Hazardous decomposition products formed under fire conditions. – nitrogen oxides (NO<sub>x</sub>), carbon oxides (CO<sub>x</sub>), Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

### Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures: protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Keep people away from spill/leak.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Ventilate area.

### 6.2. Environmental Precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:**

**Large Spills:** Do not flush with water. Dam up. Clean up promptly by scoop or vacuum. Soak up residues with inert absorbent material. After cleaning, flush traces away with water.

**Small Spills:** Do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Avoid contact with eyes and skin. Renders surfaces extremely slippery when spilled. Do not eat, drink or smoke.

**Hygiene Measures:** Observe good industrial hygiene practices.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities



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**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

### 7.3. Specific End Use(s)

Processing aid for industrial applications

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

#### Occupational Exposure Limits

		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	----	----	----	----	----	----

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, natural ventilation is adequate in absence of mists. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear PVC or other plastic material gloves.

**Eye Protection:** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection:** Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.

**Respiratory Protection:** No personal respiratory protective equipment normally required.

**Other Information:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear to slightly yellow liquid
Odor	: None
Odor Threshold	: Not available
pH	: 3-7
Evaporation Rate	: Not available
Melting Point	: <0 °C
Freezing Point	: Not available
Boiling Point	: >100 °C
Flash Point	: Does not flash
Auto-ignition Temperature	: Does not self-ignite
Decomposition Temperature	: >150 °C
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: 2.3 kPa @ 20 °C
Relative Vapor Density at 20°C	: 0.804 g/L @ 20 °C
Relative Density	: 1.0-1.2
Specific Gravity	: Not available
Solubility	: Water: Miscible

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**Partition Coefficient: N-Octanol/Water** : <0  
**Viscosity** : Not available

### SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Stable under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Protect from frost, heat and sunlight
- 10.5. Incompatible Materials:** None known
- 10.6. Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions. – hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides (Cox), Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

<b>Acute Toxicity (Oral):</b>	LD50/oral/rat >5000 mg/kg
<b>Acute Toxicity (Dermal):</b>	LD50/dermal/rat >5000 mg/kg
<b>Acute Toxicity (Inhalation):</b>	Testing by inhalation is inappropriate because exposure of humans via inhalation is unlikely; the substance has no vapor pressure and there is practically no exposure to inhalable aerosols.
<b>Irritation / Corrosivity</b>	Non-irritating to skin, slightly irritating to eyes
<b>Sensitisation</b>	Not sensitizing to skin
<b>Repeated dose toxicity</b>	Not to be expected.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Mutagenicity</b>	Negative
<b>Toxicity for reproduction</b>	Not to be expected
<b>Reproductive toxicity</b>	Not to be expected
<b>Specific target organ toxicity - single exposure (GHS)</b>	No known effects
<b>Specific target organ toxicity - repeated exposure (GHS)</b>	No known effects
<b>Aspiration hazard</b>	No hazards resulting from the material as supplied.

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### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Fish:	LC50 Danio rerio/96 hours = >100 mg/L
Invertebrates:	EC50/Daphnia Magna/48 hours = >100 mg/L
Acute toxicity to algae:	Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere in the test medium preventing homogenous distribution which invalidates the test.
Chronic toxicity to fish:	No data available
Chronic toxicity to invertebrates:	No data available
Toxicity to terrestrial organisms:	Exposure to soil is unlikely
Sediment toxicity:	Exposure to sediment is unlikely

#### 12.2 Persistence and degradability

Degradation:	Not readily biodegradable.
Hydrolysis:	Does not hydrolyse
Photolysis:	No data available

#### 12.3 Bioaccumulative potential

Partition Coefficient (Log Pow):	<0
Bioconcentration factor (BCF)	0

#### 12.4 Mobility in soil

Koc:	0
Other adverse effects	Exposure to soil is not to be expected None

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

**Additional Information:** Rinse empty container with water and use rinse water to prepare the working solution. If recycling is not practicable, dispose of in compliance with local regulations.

**Ecology - Waste Materials:** Avoid release to the environment.

### SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

	<u>U.S. DOT</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
UN number	Not Classified	Not Classified	Not Classified
Proper Shipping Name			
Transport hazard class(es)			
Packing group			
Environmental hazards			
Special precautions for user			

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

### SECTION 15: REGULATORY INFORMATION

#### 15.1. US Federal Regulations

**TSCA (Toxic Substance Control Act) - Inventory Status:** All components listed or polymer exempt.

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### Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

### SARA 311/312 - Hazard Categories:

Fire  Sudden Release  Reactivity  Immediate (acute)  Chronic (delayed)

### SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None		

### SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

### California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None		----

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

None

### New Jersey Right To Know Components

None

**California Prop. 65 Components** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**HMIS Classification** Health hazard: 0  
Flammability: 0  
Physical hazards: 0  
**NFPA Rating** Health hazard: 0  
Fire: 0  
Reactivity Hazard: 0  
PPE Code: B

The following sections contain revisions or new statements: 1-16.

Date of preparation: July 5, 2018

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

Training advice: None.

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