

**SECTION 1: IDENTIFICATION****1.1. Product Identifier****Product Form:** Polyaluminum Chloride Solution**Product Name:** Envirofloc CF-540**1.2. Intended Use of the Product**

Antifoam.

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**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**

Met. Corr. 1;

Eye Irrit. 2

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements**GHS-US/CA Labeling****Hazard Pictograms (GHS-US):****Signal Word (GHS-US):**

Danger

Hazard Statements (GHS-US):

May be corrosive to metals.

Causes serious eye irritation.

Precautionary Statements (GHS-US):

Keep only in original container.

Avoid contact with skin and eyes.

Wear protective gloves/eye protection.

Wash hands and exposed skin after use.

IF INHALED: Get medical advice/attention if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

2.3. Other Hazards

None.

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

No data available

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Hazardous Ingredient(s)	% wt.*	CAS No.	Hazard classification
Polyaluminum Hydroxychlorosulfate	33	39290-78-3	Met. Corr. 1; H290 Eye Irrit. 2; H319
Water	67	7732-18-5	Not classified as dangerous for supply/use.

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below: **None**

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: Get medical advice/attention if you feel unwell.

First-aid Measures After Skin Contact: Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

First-aid Measures After Ingestion: Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

None

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Non-combustible. As appropriate for surrounding fire.

Unsuitable Extinguishing Media: None anticipated

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Contact with metallic substances may release flammable hydrogen gas.

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas.

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.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

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: Avoid contact with skin and eyes. Wear protective gloves/eye protection.

6.1.1. For Non-Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel.

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.

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6.2. Environmental Precautions

Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.

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: Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

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

Additional Hazards When Processed: May be corrosive to metals.

Precautions for Safe Handling: Avoid contact with skin and eyes.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep in a cool, well ventilated place. Store at temperatures not exceeding 50°C / 122 °F. Protect from sunlight.

Incompatible Materials: This product should be stored away from sources of strong heat, oxidizing chemicals, and reducing agents.

Packaging materials: Store in corrosive resistant container with a resistant inner liner.

7.3. Specific End Use(s)

Water treatment chemical, for professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Occupational Exposure Limits

		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Polyaluminum Hydroxychlorosulfate, as Al	39290-78-3	15 mg/m ³ ^(T) 5 mg/m ³ ^(R)	1 mg/m ³ ^(R)	-----	-----	-----

- ^(T) Total Particulate; ^(R) Respirable Particulate

Recommended monitoring method

NIOSH 7013 (Aluminum and compounds, as Al)

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, especially in confined areas. 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 suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance : Almost colourless to pale yellow

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Odor	: None
Odor Threshold	: Not available
pH	: 4 - 4.5 (15% w/w)
Evaporation Rate	: Not available
Melting Point	: 12 (53.6 °F)
Freezing Point	: Not available
Boiling Point	: 110 °C (230 °F)
Flash Point	: Non-combustible
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.20-1.32 mg/L
Solubility	: Water: Miscible
Partition Coefficient: N-Octanol/Water	: Not available
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:** Incompatible materials
- 10.5. **Incompatible Materials:** Substances that react with water or aluminum.
- 10.6. **Hazardous Decomposition Products:** None anticipated.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Polyaluminum Hydroxychlorosulfate (CAS No. 39290-78-3):	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	>2000 mg/kg

Irritation / Corrosivity	Causes serious eye irritation.
Sensitisation	It is not a skin sensitizer.
Repeated dose toxicity	Not to be expected.
Carcinogenicity	It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity	Negative
Toxicity for reproduction	Not to be expected
Reproductive toxicity	Not to be expected

Other information None known.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Short term	LC50 (96 hr): > 100 mg/l (<i>Danio rerio</i>) LC50 (48 hour): > 100 mg/l (<i>Daphnia magna</i>) EC50 (72 hour): 14 mg/l (<i>Pseudokirchnerella subcapitata</i>)
Long Term	Not available.
Persistence and degradability	Not readily biodegradable.
Bioaccumulative potential	The product has no potential for bioaccumulation.
Mobility in soil	Not available.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	Not available.

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: Container may remain hazardous when empty. Continue to observe all precautions.

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.S. DOT	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	UN 3264	UN 3264	UN 3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s. (Polyaluminum hydroxychlorosulfate)		
Transport hazard class(es)	8	8	8
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Special precautions for user	None assigned	None assigned	None assigned

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

Safety, health and environmental regulations/legislation specific for the substance or mixture:

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

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):

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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	----	----

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

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

Date of preparation: July 29, 2018

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

Hazard Statement(s)

- H290: May be corrosive to metals.
- H319: Causes serious eye irritation.

Training advice: None.

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