



# LiquiFloc 542CE

## Safety Data Sheet

Preparation date: February 29, 2024

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** LiquiFloc 542CE

#### 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

#### 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):** Spills produce extremely slippery surfaces

**2.3 Other Hazards** 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.	Hazard classification
Distillates (petroleum), hydrotreated light	20- 30%	64742-47-8	Asp. Tox. 1;H304

Note: Does not result in classification of the mixture if the kinematic viscosity is greater than 20.5 mm<sup>2</sup>/s measured at 40°C.

### 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 hazards which require special first aid measures.

**First-aid Measures After Skin Contact:** Wash off with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.

**First-aid Measures After Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.

**First-aid Measures After Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Call a poison center immediately.

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

None

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

None reasonably foreseeable

**SECTION 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing Media**

**Suitable Extinguishing Media:** Water, water spray, foam, carbon dioxide (CO<sub>2</sub>), dry powder. Warning! Spills produce extremely slippery surfaces

**Unsuitable Extinguishing Media:** None anticipated

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

Spills produce extremely slippery surfaces

**5.3. Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**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:** Ammonia. Carbon oxides (CO<sub>x</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen chloride. 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:** 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**

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:** For small spills, do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. For large spills, dam up. Do not flush with water. Clean up promptly by scoop or vacuum. For Residues, soak up with absorbent material. After cleaning, flush away traces with water.

**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 skin and eyes. Renders surfaces extremely slippery when spilled. When using, do not eat, drink or smoke.

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

**Incompatible Materials:** Oxidizing agents.

### 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

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Distillates (petroleum), hydrotreated	64742-47-8	-----	200 mg/m <sup>3</sup> ( <sup>R</sup> )	-----	-----	-----

(<sup>R</sup>) 8 hours

#### Recommended monitoring method

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

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



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

**Hand Protection:** PVC or other plastic material gloves. Check with protective equipment manufacturer's data.

**Eye Protection:** Wear protective eyewear (goggles, face shield, or safety glasses with side-shields).

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

**Respiratory Protection:** Normally no personal respiratory protection is necessary.

**Other Information:** Wash hands before breaks and immediately after handling product. Wash hands before breaks and at the end of the workday. Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure Controls:** Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical State	: Viscous liquid
Appearance	: Milky
Odor	: Aliphatic
Odor Threshold	: Not available
pH	: 4 – 6 (5 g/L)
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: <5 °C
Boiling Point	: >100 °C
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	: 2.3 kPa@ 20 °C
Relative Vapor Density at 20°C	: 0.804 g/L @ 20 °C
Relative Density	: Not available
Specific Gravity	: 1.0- 1.1
Solubility	: Water: Completely miscible
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: >20.5 mm <sup>2</sup> /s @ 40 °C

## 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:** Oxidizing agents may cause exothermic reactions.
- 10.4. **Conditions to Avoid:** Protect from frost, heat and sunlight.
- 10.5. **Incompatible Materials:** Oxidizing agents
- 10.6. **Hazardous Decomposition Products:** Ammonia. Carbon oxides (COx). Nitrogen oxides (NOx). Hydrogen chloride. 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

**Acute Toxicity (Oral):** Not classified

Product:	
LD50 Oral Rat	LD50 >5000 mg/kg
LD50 Dermal Rat	LD50 >5000 mg/kg

<b>Acute inhalation toxicity</b>	The product is not expected to be toxic by inhalation.
<b>Skin corrosion/ irritation</b>	Not irritating to skin
<b>Serious eye damage/eye irritation</b>	Not irritating (OECD 437)
<b>Respiratory/skin sensitization</b>	Not sensitizing
<b>Mutagenicity</b>	Not mutagenic
<b>Carcinogenicity</b>	Not carcinogenic
<b>Reproductive toxicity</b>	Not toxic for reproduction
<b>STOT – single exposure</b>	No known effects
<b>STOT – Repeated exposure</b>	No known effect
<b>Aspiration hazard</b>	Due to the viscosity, this product does not present an aspiration hazard

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

<b>Mutagenicity</b>	Negative
<b>Toxicity for reproduction</b>	Not to be expected
<b>Reproductive toxicity</b>	Not to be expected
<b>Other information</b>	None known.

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity****Ecotoxicity**

Short term

LC50/Fish/(96 hr): 10-100 mg/L

LC50 (48 hour): 10-100 mg/L (*Daphnia magna*)

Long Term

Not available.

**Acute 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

**Persistence and degradability**

Readily biodegradable

**Bioaccumulative potential**

The product has no potential for bioaccumulation.

**Hydrolysis**

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

**Photolysis**

No data available

**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.

**Contaminated Packaging:** Rinse empty containers with water and use rinse water to prepare working solution. If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.

**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>
<b>UN number</b>	Not Classified	Not Classified	Not Classified
<b>Proper Shipping Name</b>			
<b>Transport hazard class(es)</b>			
<b>Packing group</b>			
<b>Environmental hazards</b>			
<b>Special precautions for user</b>			

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:** None

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:**

WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm, Acrylamide.

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

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

**Date of preparation:** February 29, 2024

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

**Hazard Statement(s)**

- Asp. Tox. 1;H304

**Training advice:** None.

**NFPA:**

Health: 0  
Flammability: 1  
Instability: 0

**HMIS:**

Health: 0  
Flammability: 1  
Reactivity: 0

**Note:** NFPA = National Fire Protection Agency

**Hazard Rating Scale:** 0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe



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