



LiquiFloc 220CE

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Revision Date: 4/09/2019

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Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: LiquiFloc 220CE

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 mm²/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 (CO₂), 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_x). Nitrogen oxides (NO_x). 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 ³ (R)	-----	-----	-----

^(R) 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 ² /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 – Similar product
LD50 Dermal Rat	LD50 >5000 mg/kg – Similar product

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

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.

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

Short term

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

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

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>
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****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: September 24, 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.

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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