

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: LIQUIFLOC 4599

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 Avenue

Homer City, PA 15748

(724) 915-8388

www.chemstream.com

1.4. Emergency Telephone Number

Emergency Number : CHEMTREC 1 (800) 424 - 9300

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):

Signal Word (GHS-US):

Hazard Statements (GHS-US):

Warning

May cause eye and skin irritation with prolonged contact

Avoid contact with eyes, skin and clothing

Do not take internally

Use with adequate ventilation

Precautionary Statements (GHS-US):

Wash thoroughly after handling

Keep container closed when not in use.

Store in a cool, dry, well ventilated area

Protect from freeze

2.3 Other Hazards

Aqueous solutions that become wet render surfaces extremely slippery.

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

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	% *	GHS Ingredient Classification
Distillates (petroleum) hydrotreated light	64742-47-8	20-45	Asp. Tox. 1. H304*
Poly(oxy-1,2-ethanedtyl), a-tridecyl-w-hydroxy-, branched	69011-36-5	<3%	Acute Tox. 4; H302, Eye Dam 1:H318

*Does not result in classification of the mixture if the kinematic viscosity is greater than 20.5 mm²/s measured at 40C.

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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. If breathing is difficult, give oxygen. If symptoms persist call a physician.

First-aid Measures After Skin Contact: Remove contaminated clothing and shoes. Wash off immediately with plenty of water. Wash contaminated clothing before reuse. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

First-aid Measures After Eye Contact: Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. Obtain medical consultation, preferably from an ophthalmologist.

First-aid Measures After Ingestion: If swallowed, call a poison control center or doctor immediately. DO NOT induce vomiting unless directed to do so by a doctor or poison control center. Never give anything by mouth to an unconscious person.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

None under normal use.

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

None.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water. Water Spray. Foam. Carbon dioxide (CO₂). Dry powder.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Carbon oxides (CO). Nitrogen Oxides (NO_x). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

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. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Hazardous Combustion Products: Carbon oxides, silicon oxides, formaldehyde, and metal oxides

Other Information: Spills produce extremely slippery surfaces.

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: Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations. 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: 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.

6.2. Environmental Precautions

Do not flush into surface water. Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment of oil barriers).

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.

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Methods for Cleaning Up: Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilled in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. 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: 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 in properly labeled containers. Keep in a dry cool place (0- 30°C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

Incompatible Materials: Strong oxidizing agents

7.3. Specific End Use(s)

None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Ingredients with workplace control parameters: Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Ingredients	Occupational Exposure Limits
Distillates (petroleum) hydrotreated light	ACGIH: 200 mg/m ³ (8-hour)

8.2. Exposure Controls

Use local exhaust if misting occurs.

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



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work.

Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of the workday.

Eye Protection: Chemical safety goggles

Skin and Body Protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.).

Respiratory Protection: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Other Information: Ensure that eye flushing and safety showers are located close to the working place. When using do not eat, drink, or smoke. Wash contaminated clothing before re-use.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Milky-white viscous liquid
Odor	: Aliphatic
Odor Threshold	: Not available
pH	: 5-9 (5 g/L)
Evaporation Rate	: Similar to water
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not applicable
Auto-ignition Temperature	: Not available
Decomposition Temperature	: >150 °C
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Similar to water
Relative Vapor Density at 20°C	: Similar to water
Relative Density	: Not available
Specific Gravity	: Not available
Solubility	: Water: Miscible
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: See technical bulletin

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.
- 10.4. Conditions to Avoid:** Protect from frost, heat and sunlight
- 10.5. Incompatible Materials:** Oxidizing agents.
- 10.6. Hazardous Decomposition Products:** Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x). 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

LD50 Oral Rat	Not available
LD50 Dermal Rat	Not available

Irritation / Corrosivity	Not irritating
Sensitisation	It is not a skin sensitizer.
Repeated dose toxicity	Not to be expected.
Carcinogenicity	Not carcinogenic

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

Mutagenicity	Negative
Toxicity for reproduction	Not to be expected

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Reproductive toxicity Not to be expected
Other information None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Short term LC50 (48 hour): 0.99 mg/L (Daphnia magna)
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: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations

Additional Information: Empty containers should be taken to an approved waste handling site for disposal.

Ecology - Waste Materials: Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.

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 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)

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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

T NFPA and HMIS Ratings:

NFPA:

Health: 0

Flammability: 1

Instability: 0

HMIS:

Health: 0

Flammability: 1

Physical Hazard: 0

PPE Code: B

This SDS was prepared in accordance with the following:

U.S. Code of Federal Regulations 29 CFR 1910.1200

Date of preparation: June 8, 2023

Training advice: None.

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