



SAFETY DATA SHEET

OSHA Hazard Communication Standard 29 CFR
1910.1200 Prepared to GHSRev03

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name: FRICTION REDUCER
Trade Name: FLOWRITE CF-510
Supplier: SNAP ENERGY VENTURES
17217 Waterview Pkwy
Dallas, TX 75252
PHONE: +1 817-691-3671
Email: info@snapenergyventures.com

In Case of Emergency:
INFOTRAC
United States & Canada
1-800-535-5053
International
1-352-323-3500

Chemical Family: CATIONIC POLYACRYLAMIDE EMULSION
Material Uses: FRICTION REDUCER

2. HAZARDS IDENTIFICATION

OSHA HAZARDS:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label Elements and Hazard Statements:

Signal word: **WARNING**



Hazard Statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.



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GHS Precautionary Statements:

Prevention:

- P264 – Wash hands and other exposed skin thoroughly after handling.
- P280 – Wear protective gloves/clothing/eye protection/face protection.

Response:

- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do then continue rinsing cautiously.
- P337+P313 – If eye irritation persists, get medical advice immediately.
- P302+P352+P362 – IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
- P332+P313 – If skin irritation persists, get medical attention immediately.
- P301+P310 – If swallowed, immediately call a poison center or a doctor/physician.
- P331 – Do not induce vomiting.

Storage:

- P233+P102 – Keep container tightly closed. Keep out of reach of children.

Other:

- PBT – Not classified
- vPvB – Not classified

3. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS#	Hazardous Components (Chemical Name)	Concentration
68002-97-1	Alcohols, C10-C16, ethoxylated and SDA Reportin	2.5 – 3.5%
64742-47-8	Petroleum distillates – hydrotreated light	22 – 27%

For full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General Advice:

Consult the POISON CENTER or a physician if you feel unwell. Show this safety data sheet to the doctor in attendance.

**Eye Contact:**

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Washing within one minute of contact is essential to minimize risk. Get medical advice or attention if irritation persists.

Skin Contact:

Take off contaminated clothing and wash before reuse. Wash skin with plenty of soap and water. If skin irritation occurs, get medical advice or assistance.

Inhalation:

If breathing is difficult, remove person to fresh air and keep at rest comfortable for breathing. If person is not breathing, please call 911 and then give artificial respiration. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Ingestion:

Never give anything by mouth to an unconscious person. If conscious, give water to drink. Rinse mouth with water. DO NOT induce vomiting. If vomiting occurs, keep airway clear. Get immediate medical attention.

Note to Physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIREFIGHTING MEASURES

Suitable Extinguishing media:

In case of fire: Use foam, carbon dioxide or dry powder. Do not use water jet.

Special Protective Equipment and Advice for Fire Fighters:

Use approved self-contained breathing apparatus with fighting fire in an enclosed area. Adopt standard procedure for containment of chemical fires. Keep the containers cool by using water spray.

Special Hazards Arising From the Substance or Mixture:

Hazardous Combustion Products - Thermal decomposition may produce carbon or nitrogen oxides and/or hydrochloric acid.

Hazards from Substance/Mixture – In a fire or if heated, a pressure increase will occur and container may burst.

Explosion Data:

Sensitivity to Mechanical Impact – None.

Sensitivity to Static Discharge – None.



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Use personal protective equipment such as gloves and safety glasses as necessary.

Environmental Precautions:

As with all chemical products, do not release into environment. Inform authorities in the event of product spillage to water courses or sewage systems.

Methods and Materials for Containment and Clean Up:

Methods for Containment – Prevent further leakage or spillage if safe to do so.

Methods for Clean Up - Do not flush with water. Soak up with inert absorbent materials such as sand, earth, etc., and place in a labelled waste container for disposal. Spills are extremely slippery. If liquid has been spilt in large quantities, clean up promptly by scoop or vacuum. Prevent entry into sewers, water courses or confined areas.

7. HANDLING AND STORAGE

Handling:

Use good industrial hygiene practices while handling this product. Avoid contact with skin and eyes. Wear appropriate personnel protective equipment and use in well ventilated areas. Avoid formation of aerosols or mists. Do not reuse container. Wash hands and face thoroughly after handling this product.

Storage:

Keep container tightly closed in a dry, cool (10 – 35 C) and well ventilated place. Keep container upright and avoid leakage. Do not freeze. Do not reuse empty container. Avoid contact with strong acids, strong oxidizing and reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Exposure Guidelines – No exposure limit value known.

Engineering Controls – Local exhaust ventilation as necessary to maintain exposure to within applicable limits. Please refer to the ACGIH document: "Industrial Ventilation, A Manual of Recommended Practices", most recent edition for details. If there are no applicable or established exposure limit requirement or guidelines, general ventilation should be sufficient.



Personal Protection:

Respiratory Protection – Wear a MISOH/OSHA approved respirator if exposure exceeds TLV or PEL limits, otherwise, general ventilation is sufficient.

Hand Protection – Appropriate chemical resistant glove must be used.

Eye/Face Protection – Goggles and face shield should be used. Do not wear contacts when handling this product.

Skin and Body Protection – Use personal protective equipment such as a chemical resistant apron or protective suit when in contact with solution likely.

Hygiene Measures – Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Other Personal Protection Data – Eyewash fountains and safety showers must be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Evaporation Rate:	No data available
Color:	White	Odor:	Slight hydrocarbon
Appearance:	Opaque	VOC (wt%):	No data available
pH:	4.0 – 6.0 (@ 0.5 g/L)	Flammability:	Not applicable
Relative Density:	8.17 - 8.51 lb/gal	Vapor Pressure:	No data available
Boiling Point:	> 150 C (> 302 F)	Vapor Density:	No data available
Flash Point:	> 90 C (> 194 F)	Specific Gravity:	0.98 – 1.02
Melting Point:	No data available	Solubility (Water):	Soluble
Freeze Point:	< -3 C (-26 F)		
Dynamic Viscosity:	~5000 cps		

10. STABILITY AND REACTIVITY DATA

Stability:

Stable under recommended storage, handling and transportation conditions.

Conditions to Avoid – Avoid extreme temperatures both hot and cold. Avoid exposure to all possible sources of ignitions such as sparks and flames.

Materials to Avoid – Strong acids, alkalis, strong reducing agents and strong oxidizing agents.

Reactivity:

Hazardous Decomposition Products – Under fire conditions, oxides of carbon and nitrogen.

Possible Hazardous Reactions – None under normal conditions.

Hazardous Polymerization – Will not occur.



11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Eyes – Irritation, watering and redness may occur.

Skin – Irritation and redness may occur

Ingestion – May result in very slight nausea/intestinal discomfort such as diarrhea.

Inhalation – No known significant effects.

Acute Toxicity – Product:

Oral LD50: > 5000 mg/kg (Rat)

Dermal LD50: > 2000 mg/kg (Rabbit)

Inhalation LC50: > 20 mg/L (Rat, 4 hours)

Acute Toxicity – Components:

No data available

Information on Toxicological Effects:

Symptoms – Adverse symptoms may include irritation, watering and redness of eyes and on exposure to skin, symptoms may include irritation and redness.

Delayed & Immediate Effects and Chronic Effects from Short & Long Term Exposure:

Skin Corrosion/Irritation – No known significant effects or critical hazards.

Eye Damage/Irritation – No known significant effects or critical hazards.

Sensitization – No known significant effects or critical hazards.

Germ Cell Mutagenicity – No known significant effects or critical hazards.

Carcinogenicity – This product does not contain any components in concentrations greater than or equal to 0.1% that are listed as known or suspected carcinogens by NTP, IARC, ACGIH or OSHA.

Reproductive Toxicity – No known significant effects or critical hazards.

Specific Target Organ Toxicity (Single Exposure) – No known significant effects or critical hazards.

Specific Target Organ Toxicity (Repeated Exposure) – No known significant effects or critical hazards.

Aspiration Hazard – Distillates (Pet.), hydrotreated light (CAS# 64742-47-8) – Category - 1.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No data available.

Acute Aquatic Toxicity – Product:

Fish: No data available.

Crustacea: No data available.



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Algae/Aquatic Plants: No data available.

Acute Aquatic Toxicity – Components:

Component	CAS #	Weight %	Species	Result	Exposure
Distillated (Pet.) Hydrotreated Light	64742-47-8	22 – 27%	Fish – Lepomis macrochirus	Acute LC50: 2.2 mg/L Fresh Water	4 days
			Fish – Oncorhynchus mykiss	Acute LC50: 2.4 mg/L Fresh Water	4 days
			Fish – Oncorhynchus mykiss	Acute LC50: 2.6 mg/L Fresh Water	4 days
			Fish – Oncorhynchus mykiss	Acute LC50: 2.9 mg/L Fresh Water	4 days
			Fish – Lepomis macrochirus	Acute LC50: 5.9 mg/L Fresh Water	4 days

Acute Aquatic Toxicity – Product:

Component	CAS #	Weight %	Species	Result	Exposure
FlowRite CF-510	Proprietary	100%	Fish – Danio rerio	Acute LC50: 1 - 10 mg/L Fresh Water	96 hours
			Daphnia – Daphnia magna	Acute EC50: 1 - 100 mg/L Fresh Water	48 hours

Persistence and Degradability:

Not readily biodegradable.

Bioaccumulative Potential:

No data available.

Mobility:

Not applicable.

Results of PBT and vPvB Assessment:

PBT: No

vPvB: No

Other Effects:

No known significant effects or critical hazards.



13. DISPOSAL CONSIDERATIONS

Product:

Dispose in accordance with local, state and federal agencies. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging/Spills:

Dispose of as unused product. Soak up spills with absorbent material. Follow label warnings.

14. TRANSPORT INFORMATION

DOT: Not regulated

IMDG: Not regulated

IATA/ICAO: Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations:

CERCLA – This material as supplied does not contain any substance regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA, 40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA, 40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

CWA (Clean Water Act) – This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (CWA, 40 CFR 122.21 and 40 CFR 122.42).

SARA 313 – This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels as established by SARA Title III (40 CFR 372).

SARA 311/312 Hazard Categories

Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactive Hazard:	No

U.S State Regulations:



California Prop.65 – The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

U.S State Right-to-Know Regulations:

This product does not contain any substances regulated under applicable state right-to-know regulations.

International Inventories:

USA (TSCA) – All components of this product are either listed on the U.S Toxic Substances Control Act (TSCA) inventory of chemicals or are otherwise compliant with TSCA regulations. Mixture is not listed.

Canada (DSL) – All components of this product are either listed on the inventory or are exempt from listing.

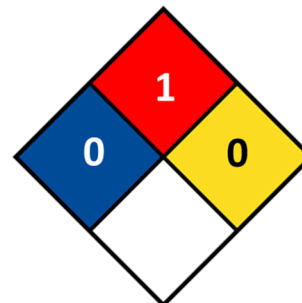
European Union (EINECS) – Some ingredients are not listed on the inventory.

16. OTHER INFORMATION

HMIS (USA):

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

NFPA (USA):



Text of H-code(s) and R-phrase(s) mentioned in Section 3.

Notice to Reader

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