



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 AF-110

Supplier: SNAP ENERGY VENTURES
600 Rustic Ridge Ct
Southlake, TX 76092
PHONE: +1 817-691-3671
Fax: +1 817-887-3737

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

Chemical Family: ANIONIC POLYACRYLAMIDE EMULSION

Material Uses: FRICTION REDUCER

2. HAZARDS IDENTIFICATION

OSHA HAZARDS:

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label Elements and Hazard Statements:

Signal word: None

GHS Precautionary Statements:

Prevention:

P264 – Wash hands and other exposed skin thoroughly after handling.

P280 – Wear protective gloves/clothing/eye protection/face protection.

Keep away from flames and hot surfaces – no smoking.

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.

P302+P352+P362 – IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.



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P304+P340 – Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage:

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

P103 – Read label before use.

Other:

Causes mild skin irritation.

Harmful to aquatic life.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS#	Hazardous Components (Chemical Name)	Concentration
Proprietary	Trade Secret Ingredient	<10 %

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.

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.

Ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water. DO NOT induce vomiting. If vomiting occurs, keep airway clear.



5. FIREFIGHTING MEASURES

Suitable Extinguishing media:

In case of fire: Use foam, carbon dioxide or dry powder. Use alcohol type or universal type foams on larger fires. 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, ammonia, toxic vapors.

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 material 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.

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.

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 –

<i>Component</i>	<i>CAS#</i>	<i>Weight %</i>	<i>ACGIH TLV</i>	<i>OSHA PEL</i>	<i>NIOSH IDLH</i>
Trade Secret	Proprietary	< 10%	200 mg/m ³ TWA Non-aerosol (as total hydrocarbon vapor)	----	----

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 to Off-White	Odor:	Slight hydrocarbon
Appearance:	Opaque	VOC (wt%):	No data available
pH:	7.0 – 9.0 as is	Flammability:	Not applicable
Relative Density:	9.01 lbs/gal	Vapor Pressure:	No data available
Boiling Point:	No data available	Vapor Density:	No data available
Flash Point:	> 93.3 C (> 200 F)	Specific Gravity:	1.06 – 1.11
Melting Point:	-35 C (-31 F)	Solubility (Water):	Soluble
Freeze Point:	-40 C (-40 F)		
Dynamic Viscosity:	200 – 1000 cps		

10. STABILITY AND REACTIVITY DATA

Stability:

Stable under recommended storage, handling and transportation conditions.

Conditions to Avoid – Avoid extreme temperatures especially freezing and frost conditions.

Materials to Avoid – Strong acids, 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 – Mild eye irritant. Symptoms may include redness, tearing and/or blurred vision.

Skin – May cause slight irritation on prolonged contact.

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

Inhalation – May cause mild respiratory irritation.

Acute Toxicity – Product:

Oral LD50: Low oral toxicity

Dermal LD50: No data available

Inhalation LC50: No data available



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Acute Toxicity – Components:

Component	CAS #	Weight %	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret	proprietary	< 10%	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	-----

Information on Toxicological Effects:

Symptoms – No data available

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

Skin Corrosion/Irritation – Mild skin irritation.

Eye Damage/Irritation – Mild eye irritation.

Sensitization – No data available.

Germ Cell Mutagenicity – No data available.

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 data available.

Specific Target Organ Toxicity (Single Exposure) – No data available.

Specific Target Organ Toxicity (Repeated Exposure) – No data available.

Aspiration Hazard – No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Harmful to aquatic life.

Acute Aquatic Toxicity – Product:

Fish: No data available.

Crustacea: No data available.

Algae/Aquatic Plants: No data available.

Acute Aquatic Toxicity – Components:

Component	CAS #	Weight %	Algae/Aquatic Plants	Fish	Toxicity to Daphnia & Other Aquatic Invertebrates
Trade Secret	Proprietary	< 10%	-----	LC50 (96h semi-static) = 2-5 mg/L (Oncorhynchus mykiss)	-----

Persistence and Degradability:

No data available.

**Bioaccumulative Potential:**

No data available.

Mobility:

No data available.

Results of PBT and vPvB Assessment:

No data available.

Other Effects:

No other ecological studies have been carried out on this product.

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 (CERLA, 40 CFR 302)



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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.

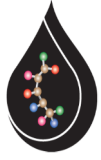
International Inventories:

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.

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



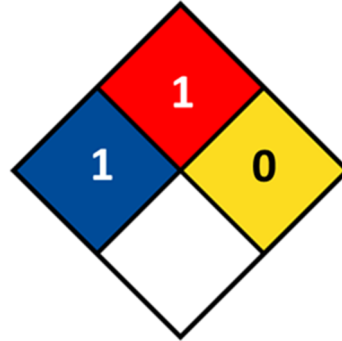
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HMIS (USA):

HEALTH	1
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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