

# SAFETY DATA SHEET

OSHA Hazard Communication Standard 29 CFR  
1910.1200 Prepared to GHSRev03

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Common Name:** VISCOSIFYING FRICTION REDUCER

**Trade Name:** FLOWRITE VF-420

**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, VISCOSIFYING AGENT

## 2. HAZARDS IDENTIFICATION

### OSHA HAZARDS:

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

Specific Target Organ Toxicity (Single Exposure): Category 3 (H336)

### GHS Label Elements and Hazard Statements:

Signal word: **WARNING**



Hazard Statements - May cause drowsiness or dizziness



# Safety Data Sheet

FlowRite VF-420

## GHS Precautionary Statements:

### Prevention:

- P264 – Wash hands and other exposed skin thoroughly after handling.
- P260 – Do not breathe dust/fume/gas/mist/vapors/spray.
- P280 – Wear protective gloves/clothing/eye protection/face protection.

### Response:

P304+P340 – Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Center or doctor if the victim feels unwell.

### Storage:

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

### Other:

Maybe harmful if contact with skin.  
Maybe harmful if swallowed.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS#	Hazardous Components (Chemical Name)	Concentration
Proprietary	Trade Secret Ingredient	20 – 30%

*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:

Remove contact lenses if present and easy to do. Flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of entire surface. Washing within one minute is essential to achieve maximum effectiveness. Continue rinsing. 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.

**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 resistant 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:**

Do not allow run-off from fire-fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Other – Slippery when wet.

**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.



### 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 mist. Do not eat, drink or smoke while using this material.

### 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters:

Exposure Guidelines –

Component	CAS#	Weight %	ACGIH TLV	OSHA PEL	NIOSH IDLH
Trade Secret	Proprietary	20 – 30%	200 mg/m3 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

<b>Physical State:</b>	Liquid	<b>Evaporation Rate:</b>	No data available
<b>Color:</b>	White to Off-White	<b>Odor:</b>	Slight hydrocarbon
<b>Appearance:</b>	Opaque	<b>VOC (wt%):</b>	No data available
<b>pH:</b>	7.0 – 9.0 as is	<b>Flammability:</b>	Not applicable
<b>Relative Density:</b>	9.02 lb/gal	<b>Vapor Pressure:</b>	No data available
<b>Boiling Point:</b>	No data available	<b>Vapor Density:</b>	No data available
<b>Flash Point:</b>	>93 C/ >200 F	<b>Specific Gravity:</b>	1.06 – 1.12
<b>Melting Point:</b>	No data available	<b>Solubility (Water):</b>	Soluble
<b>Freeze Point:</b>	< 5.0 C (< 41.0 F)		
<b>Dynamic Viscosity:</b>	400 – 900 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 – None anticipated under normal conditions of use.

Possible Hazardous Reactions – None under normal conditions.

Hazardous Polymerization – Will not occur.

### 11. TOXICOLOGICAL INFORMATION

**Information on Likely Routes of Exposure:**

Eyes – May cause mild to moderate eye irritation.

Skin – May be harmful if in contact with skin. Prolonged or repeated contact may cause skin irritation.

Ingestion – Harmful if swallowed. May result in gastrointestinal irritation, nausea, vomiting and diarrhea

Inhalation – Inhalation of mist or vapor may cause respiratory irritation. Vapors may cause drowsiness and dizziness.



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## Acute Toxicity – Product:

Oral LD50: Low oral toxicity  
Dermal LD50: No data available  
Inhalation LC50: No data available

## Acute Toxicity – Components:

Component	CAS #	Weight %	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret Ingredient	Proprietary	20 - 30%	>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) – May cause drowsiness or dizziness.

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

Aspiration Hazard – No data available.

## Numerical Measures of Toxicity – Product:

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral): 4815 mg/kg

ATEmix (dermal): 2084mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

Harmful to aquatic life

### Acute Aquatic Toxicity – Product:

Fish (LC50): No data available.

Invertebrates (EC50): No data available.

Algae/Aquatic Plants (IC50): No data available.



**Acute Aquatic Toxicity – Components:**

Component	CAS #	Weight %	Algae/Aquatic Plants (IC50)	Fish (LC50)	Toxicity to Invertebrates (EC50)
Trade Secret	Proprietary	20 - 30%	---	2-5 mg/L (96h, semi-static, Oncorhynchus mykiss)	---

**Persistence and Degradability – Product:**

Degradation: No data available  
Hydrolysis: No data available  
Photolysis: No data available

**Bioaccumulative Potential:**

The product and the components are not expected to bioaccumulate.

**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 (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:	Yes
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 exempt 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.



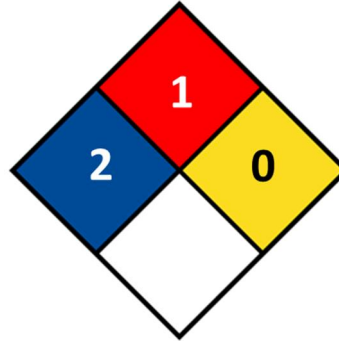


**16. OTHER INFORMATION**

HMIS (USA):

HEALTH	2
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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