



# SAFETY DATA SHEET

OSHA Hazard Communication Standard 29 CFR  
1910.1200 Prepared to GHSRev03

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Common Name:** DRAG REDUCING OR FRICTION REDUCING AGENT

**Trade Name:** FLOWRITE DR-100

**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:** PROP. COMPONENT + SOLVENT MIXTURE

**Material Uses:** DRAG REDUCING AGENT FOR PIPE LINE; INDUSTRIAL MANUFACTURING AID

## 2. HAZARDS IDENTIFICATION

### OSHA HAZARDS:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Classification according to Regulation (EC) No 1272/2008.

### GHS Label Elements and Hazard Statements:

Signal word: DANGER



Flammable liquids:	Category 2 – H225
Aspiration hazard:	Category 1 – H304
Acute toxicity, dermal:	Category 4 – H312
Serious eye damage/irritation:	Category 2B – H320
Reproductive toxicity:	Category 2 – H361
Specific target organ toxicity:	Category 2 – H373



SDS

*FlowRite DR-100*

Acute aquatic toxicity: Category 3 – H402

Hazard Statements:

H225: Highly flammable liquid and vapor.  
H304: May be fatal if swallowed or enters airways.  
H312: Harmful if contact with skin.  
H320: Causes eye irritation.  
H361: Suspected of damaging fertility or the unborn child.  
H373: Causes damage to organs through prolonged or repeated exposure.  
H402: Harmful to aquatic life.

**GHS Precautionary Statements:**

Prevention:

P201 – Obtain special instructions before use.  
P202 – Do not handle until all safety precautions have been read and understood.  
P264 – Wash hands and other exposed skin thoroughly after handling.  
P280 – Wear protective gloves/clothing/eye protection/face protection.  
P210 – Keep away from heat, sparks, flames and hot surfaces – no smoking.  
P233 – Keep container tightly closed.  
P240 – Ground/bond container and receiving equipment.  
P242 – Use only non-sparking tools.  
P243 – Take precautionary measures against static discharge.  
P260 – Do not breathe mist, vapors, spray.

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.  
P303+P353+P361 – 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.  
P304+P340 – If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P301+P310 – If swallowed, immediately call a poison center or a doctor/physician.  
P331 – Do not induce vomiting.  
P370+P378 – In case of fire, use CO<sub>2</sub> powder or alcohol resistant foam for extinguishing.  
P314 – Get medical advice/attention if you continue to feel unwell.

Storage:

P233+P102 – Keep container tightly closed. Keep out of reach of children.  
P403+P235 – Store in a well ventilated place. Keep cool.



P501 – Dispose of contents/container to comply with local, state and federal regulations.

P103 – Read label before use.

**Classification According to EU Directives 67/548/EEC or 1999/45/EC:**

Xi: Irritant

Xn: Harmful

N: Dangerous for the environment

R10: Flammable

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

R52: Harmful to aquatic organisms

R61: May cause harm to unborn child

R68: Possible risk of irreversible effects

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS#	Hazardous Components (Chemical Name)	Concentration
426260-76	Alkanes	20 – 70%
108-88-3	Methylbenzene	20 – 40%
Proprietary	Trade Secret Ingredient	Balance

*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:**

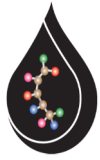
Rinse cautiously with water for several minutes (at least 15 minutes). Remove contact lenses if present and easy to do. Continue rinsing. Do not allow victim to rub or keep eyes closed.

**Skin Contact:**

Take off contaminated clothing. Wash skin with plenty of water. If skin irritation (redness, rash, blisters) develops, get medical advice or assistance.

**Inhalation:**

Remove victim from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get immediate medical aid. DO NOT use mouth-to-mouth resuscitation. If breathing has ceased, apply artificial respiration using oxygen with a suitable mechanical device such as a bag or mask.

**Ingestion:**

Never give anything by mouth to an unconscious person. DO NOT induce vomiting. If vomiting occurs, keep airway clear. To prevent aspiration of swallowed product, lay victim on side. Call a physician or poison control center immediately.

## 5. FIREFIGHTING MEASURES

**Suitable Extinguishing media:**

Use DRY chemical powder, alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build up, auto ignition or explosion. DO NOT use high volume 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:**

Carbon oxides. Avoid contact with strong oxidizers in order to prevent irritating fumes. Explosive in the presence of oxidizing materials.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Eliminate sources of ignition. Wear protective gloves/clothing/eye and face gear. Ensure adequate ventilation to remove vapors, fumes, dust, etc. Avoid breathing vapors.

**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. Contain spillages with sand, earth or any suitable adsorbent material.

**Methods and Materials for Containment and Clean Up:**

Methods for Containment – Prevent further leakage or spillage if safe to do so. Contain spillages with sand, earth or any suitable adsorbent material.

Methods for Clean Up – Wash the spilled area with soap and water. Use water spray to disperse the gas/vapors. Remove all sources of ignition. Use spark proof tools. Soak up with inert absorbent material and place in a labelled waste container for disposal. If liquid has been spilt in large quantities, clean up promptly by using appropriate scoop or vacuum. Avoid leakage of material into sewers.



## 7. HANDLING AND STORAGE

### Handling:

Avoid contact with eyes, skin and clothing. Wear approved protective equipment such as gloves, lab coat, and safety goggles/face shield. Avoid breathing vapors. Ensure there is adequate ventilation to remove vapors, fumes or dust. Do not allow contact with heat.

### Storage:

Keep container tightly closed in a well ventilated area and away from incompatible materials. Take protective measures against static discharge. Ground/Bond container and receiving equipment. Use only non-sparking tools. Keep away from oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters:

#### Exposure Guidelines –

Component	CAS#	Weight %	ACGIH USA	OSHA PEL	NIOSH IDLH
Alkanes	426260-76	20 – 70	400 ppm (TWA) 500 ppm (STEL)	----	----
Methylbenzene	108-88-3	20 – 40	20 ppm Skin (TWA) 200 ppm (STEL)	----	----

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 Protective Equipment:

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>	Clear light amber	<b>Odor:</b>	Mild hydrocarbon like
<b>Appearance:</b>	Transparent	<b>VOC (wt%):</b>	No data available
<b>pH:</b>	No data available	<b>Flammability:</b>	Flammable
<b>Density (@ 20 C):</b>	0.86 (7.18 lbs/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>	No data available	<b>Specific Gravity:</b>	0.81
<b>Melting Point:</b>	No data available	<b>Solubility (Water):</b>	No data available
<b>Freeze Point:</b>	No data available	<b>Auto Ignition:</b>	No data available
<b>Dynamic Viscosity:</b>	0.55 CST @ 20 °C	<b>Solubility:</b>	No data available

## 10. STABILITY AND REACTIVITY DATA

### Stability:

Stable under recommended storage, handling and transportation conditions. Hygroscopic in nature.

Conditions to Avoid – Incompatible materials, mist/dust, moisture, heat, sparks.

Materials to Avoid – Oxidizing agents, strong alkalis, acids and metals.

### 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 – Causes serious eye irritation.

Skin – Causes skin irritation.

Ingestion – May be fatal if swallowed.

Inhalation – May be harmful if enters airways.

### Acute Toxicity – Product:

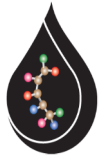
No data available

### Acute Toxicity – Alkanes:

Oral LD50: 15,000 mg/kg Mouse

Dermal LD50: >2000 mg/kg Rabbit

Inhalation LC50: 103 mg/L Rat (4 hours)

**Acute Toxicity – Methylbenzene:**

Oral LD50: 5,580 mg/kg Rat  
Dermal LD50: 12,196 mg/kg Rabbit  
Inhalation LC50: 49 mg/L Rat (4 hours)

**Information on Toxicological Effects:**

Symptoms – Drowsiness, dizziness, irritant effects, headache, convulsions, nausea, vomiting, circulatory collapse, inebriation, somnolence, unconsciousness, respiratory arrest, CNS disorders and paralysis.  
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

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

Skin Corrosion/Irritation – Harmful if exposed to skin for long period.

Eye Damage/Irritation – Causes serious eye damage.

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 – Suspected of causing damage to unborn child.

Specific Target Organ Toxicity (Single Exposure) – May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure) – May cause damage to organs through prolonged or repeated exposure – Central Nervous System (CNS).

Aspiration Hazard – Suspected to cause pulmonary oedema and pneumonitis.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

Harmful to aquatic life.

**Acute Aquatic Toxicity – Product:**

No data available.

**Acute Aquatic Toxicity – Alkanes:**

LC50 (96 hours): >13.4 mg/L (Oncorhynchus mykiss)  
EL50 (48 hours): 3.0 mg/L (Daphnia magna)  
EC50 (96 hours): 13 mg/L (Pseudokirchnerella subcapitata)

**Acute Aquatic Toxicity – Methylbenzene:**

LC50 (96 hours): 5.8 mg/L (Oncorhynchus mykiss)  
EC50 (48 hours): 6.0 mg/L (Daphnia magna)  
EC50 (24 hours): 10 mg/L (Pseudokirchnerella subcapitata)

**Persistence and Degradability:**

Product and the components are readily biodegradable.

**Bioaccumulative Potential:**

The product has no potential for bioaccumulation.

**Mobility:**

Expected to have low mobility in soil.

**Results of PBT and vPvB Assessment:**

No data available as chemical safety assessment not required.

**Other Effects:**

Very toxic to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### 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	ADR	IMDG	IATA
<b>UN-NUMBER</b>	1993	1993	1993	1993
<b>UN-PROPER SHIPPING NAME</b>	Flammable Liquid, N.O.S (contains Toluene, Alkanes)	Flammable Liquid, N.O.S (contains Toluene, Alkanes)	Flammable Liquid, N.O.S (contains Toluene, Alkanes)	Flammable Liquid, N.O.S (contains Toluene, Alkanes)
<b>TRANSPORT HAZARD CLASS</b>	3, Flammable Liquids.	3, Flammable Liquids.	3, Flammable Liquids.	3, Flammable Liquids.
<b>PACKAGING GROUP</b>	II	II	II	II





**15. REGULATORY INFORMATION**

**Safety, Health & Environmental Regulations/Legislation Specific For The Substance or Mixture**

SARA 313 – The following components are subject to reporting levels established by SARA Title III (40 CFR 372) section 313: Methyl benzene (Toluene); CAS# 108-88-3.

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	Yes
Fire Hazard:	Yes
Sudden Release of Pressure Hazard:	Yes
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 contains the following chemical(s) known to State of California to cause birth defects, or any other reproductive harm: Methylbenzene (Toluene), CAS# 108-88-3. For further information, go to: [www.P65Warnings.ca.gov.Toluene](http://www.P65Warnings.ca.gov/Toluene)

**U.S State Right-to-Know Regulations:**

Massachusetts Right To Know Components – This product contains Methylbenzene (Toluene) having CAS# 108-88-3.

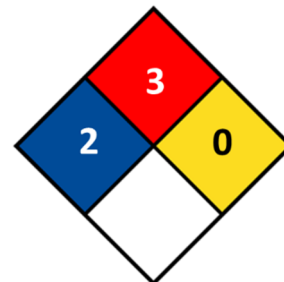
Pennsylvania Right To Know Components – This product contains Methylbenzene (Toluene) having CAS# 108-88-3.

**16. OTHER INFORMATION**

**HMIS (USA):**

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	B

**NFPA (USA):**



**Notice to Reader**

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