



## 1. IDENTIFICATION

**TRADE NAME:** FR 700  
**TRADE CODE:** None  
**PRODUCT TYPE:** Drilling additive  
**COMPANY:** Mountain Supply & Service, LLC Phone: 888-547-1149 PO  
Box 3111 Longview, TX 75606  
Emergency telephone number: CHEMTEL: 800-255-3924  
**PRODUCT USE:** Processing aid for Oil and Gas applications

## 2. HAZARD(S) IDENTIFICATION

**CLASSIFICATION:** Classification according to paragraph (d) of Regulation 29 CFR 1910.1200: Not classified.  
**LABEL ELEMENTS:** Labelling according to paragraph (f) of Regulation 29 CFR 1910.1200  
**HAZARD SYMBOLS:** None  
**SIGNAL WORD:** None  
**HAZARD STATEMENTS:** None  
**PRECAUTIONARY STATEMENTS:** None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Anionic water-soluble polymer in emulsion

Component	CAS#	[% by wt]
Distillates (petroleum), hydrotreated light	64742-47-8	20 - 45
Ethylene glycol	107-21-1	<10
Alcohols, C12-16, ethoxylated propoxylated	68213-24-1	<2
Fatty alcohols ethoxylated	Confidential	<2

## 4. FIRST AID MEASURES

**INHALATION:** Move to fresh air. No hazards which require special first aid measures.  
**SKIN CONTACT:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.  
**EYE CONTACT:** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately.  
**INGESTION:** Rinse mouth with water. DO NOT induce vomiting. Get medical attention immediately.

## 5. FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Water, water spray, Foam, Carbon Dioxide, Dry powder  
**SPECIAL FIRE-FIGHTING PRECAUTIONS:** Wear self-contained breathing apparatus and protective suit. Spills produce extremely slippery surfaces.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Nitrogen oxides (NOx). Carbon oxides (COx). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.



## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.

**ENVIRONMENTAL PRECAUTIONS:** Do not contaminate water.

**METHODS FOR CLEANING UP**

SMALL SPILLS - Do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

LARGE SPILLS - Do not flush with water. Dam up. Clean up promptly by scoop or vacuum.

RESIDUES - Soak up with inert absorbent material. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

**HANDLING:** Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. when using, do not eat, drink or smoke.

**STORAGE:** Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material. Incompatible with oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**CONTROL PARAMETERS:**

Distillates (petroleum), hydrotreated light - ACGIH: 200 mg/m<sup>3</sup> (8-hour)

Ethylene glycol - OSHA: 125 mg/m<sup>3</sup> (8-hour) ACGIH: 10 mg/m<sup>3</sup> (8-hour)

**ENGINEERING MEASURES:** Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

**EYE/FACE PROTECTION:** Safety glasses with side-shields.

**SKIN PROTECTION:** Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.

**HAND PROTECTION:** PVC or other plastic material gloves.

**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required.

**ENVIRONMENTAL CONTROLS:** Do not allow uncontrolled discharge of product into the environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Viscous liquid, Milky.	VAPOR PRESSURE:	2.3 kPa 20°C
ODOR:	Aliphatic.	RELATIVE DENSITY:	1.0 - 1.2
ODOR THRESHOLD:	No data available.	SOLUBILITY:	Completely miscible.
pH:	5 - 8 5 g/L	PARTITION COEFFICIENT:	Not applicable.
MELTING POINT/FREEZING POINT:	5C	AUTOIGNITION TEMP:	No data available.
INITIAL BOILING POINT RANGE:	> 100C	DECOMP. TEMP.:	> 150C
FLASH POINT:	Does not flash.	VISCOSITY:	> 20.5 mm/s @ 40°C
EVAPORATION RATE:	No data available.		Not expected to be explosive based on the chemical structure.
FLAMMABILITY:	Not applicable.		Not expected to be oxidising based on the chemical structure.
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	Not expected to be explosive.		

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Stable under recommended storage conditions.

**CHEMICAL STABILITY:** Stable under recommended storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Oxidizing agents may cause exothermic reactions.

**CONDITIONS TO AVOID:** Protect from frost, heat and sunlight.

**INCOMPATIBLE MATERIALS:** Oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce: nitrogen oxides (NO<sub>x</sub>), carbon oxides (CO<sub>x</sub>), hydrogen cyanide (hydrocyanic acid).



## 11. TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE ORAL TOXICITY:	LD50/oral/rat > 5000 mg/kg
ACUTE DERMAL TOXICITY:	LD50/dermal/rat > 5000 mg/kg
ACUTE INHALATION TOXICITY:	Not toxic by inhalation.
SKIN IRRITATION:	Not irritating.
EYE DAMAGE/IRRITATION:	Slightly irritating.
SKIN SENSITATION:	Not sensitizing.
MUTAGENICITY:	Not mutagenic.
CARCINOGENICITY:	Not carcinogenic.
REPRODUCTIVE TOXICITY:	Not toxic for reproduction.
STOT - SINGLE EXPOSURE:	No known effects.
STOT REPEATED EXPOSURE:	No known effects.
ASPIRATION HAZARD:	Due to the viscosity, this product does not present an aspiration hazard.

### INFORMATION ON HAZARDOUS COMPONENTS:

#### Distillates (petroleum), hydrotreated light

ACUTE ORAL TOXICITY:	LD50/oral/rat > 5000 mg/kg (OECD 401)
ACUTE DERMAL TOXICITY:	LD50/dermal/rabbit > 5000 mg/kg (OECD 402)
ACUTE INHALATION TOXICITY:	LC50/inhalation/4 h/rat = 4951 mg/m <sup>3</sup> (OECD 403)
SKIN IRRITATION:	Not irritating.(OECD 404) Repeated exposure may cause skin dryness and cracking.
EYE DAMAGE/IRRITATION:	Not irritating.(OECD 405)
SKIN SENSITISATION:	Not expected to be sensitizing.(OECD 406)
MUTAGENICITY:	Not mutagenic.
ARCINOGENICITY:	Not carcinogenic.
REPRODUCTIVE TOXICITY:	Not toxic for reproduction.
STOT - SINGLE EXPOSURE:	No known effects.
STOT REPEATED EXPOSURE:	NOAEL/oral/rat/90 days >=300 mg/kg/day (OECD 408) (Based on results from analagous products.
ASPIRATION HAZARD:	May be fatal if swallowed and enters airways.

#### Ethylene glycol

ACUTE ORAL TOXICITY:	LD50/oral/rat > 2000 mg/kg
ACUTE DERMAL TOXICITY:	LD50/dermal/rabbit > 3500 mg/kg
ACUTE INHALATION TOXICITY:	LC50/inhalation/6 h/rat > 2.5 mg/L
SKIN IRRITATION:	Not irritating.
EYE DAMAGE/IRRITATION:	Not irritating.
SKIN SENSITISATION:	Not expected to be sensitizing.
MUTAGENICITY:	Not mutagenic. Negative in the Ames Test (OECD 471).
ARCINOGENICITY:	Not carcinogenic in animal experiments.
REPRODUCTIVE TOXICITY:	Not toxic for reproduction.
STOT - SINGLE EXPOSURE:	No known effects.
STOT REPEATED EXPOSURE:	NOAEL/oral/rat = 150 mg/kg/day (OECD 408) NOAEL/oral/rat/33 days = 200 mg/kg/day (OECD 407).
ASPIRATION HAZARD:	No known effects.



## 11. TOXICOLOGICAL INFORMATION (cont'd)

### INFORMATION ON HAZARDOUS COMPONENTS (cont'd):

#### Alcohols, C12-16, ethoxylated propoxylated

ACUTE ORAL TOXICITY:	LD50/oral/rat > 2000 mg/kg
ACUTE DERMAL TOXICITY:	No data available.
ACUTE INHALATION TOXICITY:	No data available.
SKIN IRRITATION:	Irritating to skin.
EYE DAMAGE/IRRITATION:	Risk of serious damage to eyes.
SKIN SENSITISATION:	No data available.
MUTAGENICITY:	No data available.
ARCINOGENICITY:	No data available.
REPRODUCTIVE TOXICITY:	No data available.
STOT - SINGLE EXPOSURE:	No data available.
STOT REPEATED EXPOSURE:	No data available.
ASPIRATION HAZARD:	No data available.

#### Fatty alcohols ethoxylated

ACUTE ORAL TOXICITY:	No data available.
ACUTE DERMAL TOXICITY:	No data available.
ACUTE INHALATION TOXICITY:	No data available.
SKIN IRRITATION:	Causes severe burns.
EYE DAMAGE/IRRITATION:	Risk of serious damage to eyes.
RESP/SKIN SENSITISATION:	Not expected to be sensitising.
MUTAGENICITY:	Negative in the Ames Test (OECD 471).
ARCINOGENICITY:	No data available.
REPRODUCTIVE TOXICITY:	No data available.
STOT - SINGLE EXPOSURE:	No known effects.
STOT REPEATED EXPOSURE:	No data available.
ASPIRATION HAZARD:	No known effects.

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## 12. ECOLOGICAL INFORMATION

### INFORMATION ON THE PRODUCT AS SUPPLIED:

ACUTE TOXICITY TO FISH:	LC50/Fish/96 hours > 100 mg/L
ACUTE TOXICITY TO INVERTEBRATES:	EC50/Daphnia/48 hours > 100 mg/L
ACUTE TOXICITY TO ALGAE:	IC50/Algae/72 hours > 100 mg/L
CHRONIC TOXICITY TO FISH:	No data available.
CHRONIC TOXICITY TO INVERTEBRATES:	No data available.
TOXICITY TO MICROORGANISMS:	No data available.
EFFECTS ON TERRESTRIAL ORGANISMS:	No data available.
SEDIMENT TOXICITY:	No data available.



## 12. ECOLOGICAL INFORMATION (cont'd)

### RELEVANT INFORMATION ON THE HAZARDOUS COMPONENTS

#### DISTILLATES (petroleum), HYDROTREATED LIGHT:

ACUTE TOXICITY TO FISH:	LC0/Oncorhynchus mykiss/96 hours > 1000 mg/L (OECD 203)
ACUTE TOXICITY TO INVERTEBRATES:	EC0/Daphnia magna/48 hours > 1000 mg/L (OECD 202)
ACUTE TOXICITY TO ALGAE:	IC0/Pseudokirchneriella subcapitata/72 hours > 1000 mg/L (OECD 201)
CHRONIC TOXICITY TO FISH:	NOEC/Oncorhynchus mykiss/28 days > 1000 mg/L
CHRONIC TOXICITY TO INVERTEBRATES:	NOEC/Daphnia magna/21 days > 1000 mg/L
TOXICITY TO MICROORGANISMS:	EC50/Tetrahymena pyriformis/ 48h > 1000 mg/L
EFFECTS ON TERRESTRIAL ORGANISMS:	No data available.
SEDIMENT TOXICITY:	No data available. Readily biodegradable, exposure to sediment is unlikely.

#### Ethylene glycol:

ACUTE TOXICITY TO FISH:	LC50/Pimephales promelas/96 hours = 72860 mg/L
ACUTE TOXICITY TO INVERTEBRATES:	EC0/Daphnia magna/48 hours >= 100 mg/L (OECD 202)
ACUTE TOXICITY TO ALGAE:	IC50/Selenastrum capricornutum/96 hours = 6500 - 13000 mg/L
CHRONIC TOXICITY TO FISH:	NOEC/Pimephales promelas/7 days = 15380 mg/L
CHRONIC TOXICITY TO INVERTEBRATES:	NOEC/Ceriodaphnia Dubia/7 days = 8590 mg/L
TOXICITY TO MICROORGANISMS:	EC20/activated sludge/0.5 h > 1.995 mg/L
EFFECTS ON TERRESTRIAL ORGANISMS:	No data available. Readily biodegradable, exposure to soil is unlikely
SEDIMENT TOXICITY:	No data available. Readily biodegradable, exposure to sediment is unlikely.

#### Alcohols, C12-16, ethoxylated propoxylated

ACUTE TOXICITY TO FISH:	LC50/Danio rerio/96 hours = 0.1 - 1 mg/L
ACUTE TOXICITY TO INVERTEBRATES:	EC50/Daphnia/48 hours = 1 - 10 mg/L
ACUTE TOXICITY TO ALGAE:	IC50/Algae/72 hours = 0.1 - 1 mg/L
CHRONIC TOXICITY TO FISH:	No data available.
CHRONIC TOXICITY TO INVERTEBRATES:	No data available.
TOXICITY TO MICROORGANISMS:	EC10/Pseudomonas putida > 1000 mg/L
EFFECTS ON TERRESTRIAL ORGANISMS:	No data available.
SEDIMENT TOXICITY:	No data available.

#### Fatty alcohols ethoxylated

ACUTE TOXICITY TO FISH:	LC50/Danio rerio/96 hours = 4.7 mg/L
ACUTE TOXICITY TO INVERTEBRATES:	No data available.
ACUTE TOXICITY TO ALGAE:	No data available.
CHRONIC TOXICITY TO FISH:	No data available.
CHRONIC TOXICITY TO INVERTEBRATES:	No data available.
TOXICITY TO MICROORGANISMS:	No data available.
EFFECTS ON TERRESTRIAL ORGANISMS:	No data available.
SEDIMENT TOXICITY:	No data available.

#### Persistence and degradability

#### INFORMATION ON THE PRODUCT AS SUPPLIED:

DEGRADATION:	Not readily biodegradable.
HYDROLYSIS:	Does not hydrolyse.
PHOTOLYSIS:	No data available.





## 12. ECOLOGICAL INFORMATION (cont'd)

### Persistence and degradability (cont'd)

#### Distillates (petroleum) hydrotreated light:

DEGRADATION: Readily biodegradable.  
HYDROLYSIS: Does not hydrolyse.  
PHOTOLYSIS: No data available.

#### Ethylene glycol:

DEGRADATION: Readily biodegradable. 90-100%/10 days (OECD 301A)  
HYDROLYSIS: Does not hydrolyse.  
PHOTOLYSIS: No data available.

#### Fatty alcohols ethoxylated:

DEGRADATION: Readily biodegradable. 80%/10 days (OECD 301A)  
HYDROLYSIS: No data available  
PHOTOLYSIS: No data available.

#### Alcohols, C12-16, ethoxylated propoxylated

DEGRADATION: Readily biodegradable. >60%/28 days (OECD 301B);  
>=90%/28 days (OECD 301A)  
HYDROLYSIS: No data available.  
PHOTOLYSIS: No data available.

### Bioaccumulative Potential

#### Information on product as supplied: Not expected to bioaccumulate:

Partition co-efficient (Log Pow): Not applicable.  
Bioconcentration factor (BCF): No data available.

#### Distillates (petroleum) hydrotreated light:

Partition co-efficient (Log Pow): 3 - 6.  
Bioconcentration factor (BCF): No data available.

#### Ethylene glycol:

Partition co-efficient (Log Pow): -1.36.  
Bioconcentration factor (BCF): No data available.

#### Fatty alcohols ethoxylated:

Partition co-efficient (Log Pow): Not applicable.  
Bioconcentration factor (BCF): No data available.

#### Alcohols, C12-16, ethoxylated propoxylated

Partition co-efficient (Log Pow): Not applicable.  
Bioconcentration factor (BCF): No data available.

### Mobility in Soil

#### Information on product as supplied: Not expected to bioaccumulate:

No data available.

#### Distillates (petroleum) hydrotreated light:

Koc: No data available.

#### Ethylene glycol:

Koc: 1.

#### Fatty alcohols ethoxylated:

Koc: No data available.

#### Alcohols, C12-16, ethoxylated propoxylated

Koc: No data available.

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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL:** Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

**CONTAINER:** Rinse empty containers with water and use the rinse-water to prepare the working solution. Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local and national regulations.



#### 14. TRANSPORT INFORMATION

**DOT:** Not classified as dangerous in the meaning of DOT regulations.  
**IMDG/ IMO:** Not classified as dangerous in the meaning of IMO / IMDG regulations.  
**ICAO/ IATA:** Not classified as dangerous in the meaning of ICAO / IATA regulations

#### 15. REGULATION INFORMATION

##### INFORMATION ON THE PRODUCT AS SUPPLIED:

**TSCA:** All components of this product are either listed on the inventory or are exempt from listing.  
**SARA (Section 311/312)**  
**HAZARD CLASS:** Not Concerned  
**RCRA STATUS:** Not RCRA hazardous.  
**CA PROP 65 INFO:** WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm, Acrylamide.

##### Ethylene glycol

**SARA Title III Sections: Section 313:** 1.0%  
**CERCLA Hazardous Substances List**  
**(40 CFR 302.4) Reportable Quantity:** 5000 lbs  
**CA PROP 65 INFO:** Listed

#### 16. OTHER INFORMATION

##### NFPA and HMIS Ratings:

**NFPA:** Health 0  
Flammability 1  
Instability 0



**HMIS:** Health 1  
Flammability 1  
Physical Hazard 0  
PPE Code: B

**Misc:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.