

# FRAC SQUEEZE

## SAFETY DATA SHEET

Version 1.0  
Revision Date: 06/01/2015  
Print Date: 06/01/2015

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product identifiers**  
 Product name : Frac Squeeze  
 Product Number : EFP-7015  
 Brand : Fluid Technology Service International, LLC  
 CAS-No. : Proprietary
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
 Identified uses : Lost Circulation Squeeze Material
- 1.3 Details of the supplier of the safety data sheet**  
 Fluid Technology Service International, LLC  
 P. O. Box 1702  
 Scott, LA 70583  
 Office: 877-503-5843
- 1.4 Emergency telephone number**  
 Emergency Phone # : Chemtrek – 1-800-424-9300 (24 Hours)

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**  
**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**  
 Combustible dust  
 For the full text of the H-Statements mentioned in this Section, see Section 16.
- 2.2 GHS Label elements, including precautionary statements**  
 Pictogram None  
 Signal word Warning  
 Hazard statement(s) May form combustible dust concentrations in air  
 Precautionary statement(s) none
- 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**  
 Combustible dust

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Hazardous components Component	CAS-No.	EC-No.	Synonyms	Classification	Concentration
Cellulose-151	Proprietary	n/a	Proprietary	n/a	Proprietary
Cellulose-153	Proprietary	Proprietary	Proprietary	n/a	Proprietary
Salt Gel	8031-18-3	n/a	Attapulgate	n/a	Proprietary
Lime	1305-62-0	n/a	Industrial Hydrate	n/a	5-25%
Diatomaceous Earth, Natural	61790-53-2	231-545-4	Filter agent	n/a	Proprietary
Cement	65997-15-1	n/a	Proprietary	n/a	Proprietary
Quartz	14808-60-7	238-878-4	Silica Crystalline Quartz	n/a	<1%

For the full text of the H-Statements mentioned in this Section, see Section 16.

\* The exact percentage concentration of the composition has been withheld as proprietary.

## 4. FIRST AID MEASURES

---

### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Flush eyes with water as a precaution.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2 .2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## 5. FIREFIGHTING MEASURES

---

### 5.1 Extinguishing media Suitable

#### **extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Avoid dusty conditions.

## 6. ACCIDENTAL RELEASE MEASURES

---

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing dust.  
For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.  
Provide appropriate exhaust ventilation at places where dust is formed.  
For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are "stipulated".

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Components with workplace control parameters

Exposure Limits/Guidelines:				
Ingredient	CAS-No.	Agency	Exposure Limit(s)	Comments
Cellulose-151	Proprietary	OSHA PEL-TWA	15 mg/m <sup>3</sup>	Total Dust Particulate Not Otherwise Regulated
		OSHA PEL-TWA	15 mg/m <sup>3</sup>	Respirable Dust
		ACGIH TLV-TWA	10 mg/m <sup>3</sup>	Total Dust Particulate Not Otherwise Regulated
Cellulose-153	Proprietary	TWA	10 mg/m <sup>3</sup>	
		PEL	5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	Respirable fraction. Total dust.
		TWA	15 mg/m <sup>3</sup> 15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	Total dust. Respirable fraction.
Lime	1305-62-0	OSHA PEL	15 mg/m <sup>3</sup>	Total
		OSHA PEL	5 mg/m <sup>3</sup>	Respirable
		ACGIH TLV	5 mg/m <sup>3</sup>	
		TWAEV	5 mg/m <sup>3</sup>	Ont. Reg 833
Quartz	14808-60-7	OSHA PEL	$\frac{30}{\%}$ Silica + 2	Total
		OSHA PEL	$\frac{10}{\%}$	Respirable
		ACGIH TLV	0.025	Respirable
		TWAEV	0.1	Ont. Reg 833

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (cont'd)

Exposure Limits/Guidelines:				
Ingredient	CAS-No.	Agency	Exposure Limit(s)	Comments
Diatomaceous earth, Natural	61790-53-2	OSHA PEL	80 mg/m3 % SiO <sub>2</sub>	Total dust
		ACGIH TLV	none established	
		MSHA PEL	5 mg/m3	
		NIOSH REL	6 mg/m3	
Cement	65997-15-1	OSHA PEL	15 mg/m3	Total
		OSHA PEL	5 mg/m3	Respirable
		ACGIH TLV	10	Respirable

### 8.2 Exposure controls

#### Appropriate engineering controls

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

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Control of environmental exposure

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form : fibers Color: white to tan
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	Unknown
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	Not known
h) Evaporation rate	No data available
i) Flammability (solid, gas)	Carbon monoxide and carbon dioxide may form on combustion.
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	Insoluble
o) Partition coefficient: n - octanol/water	No data available
p) Auto-ignition temperature	Not Known
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

### 9.2 Other safety information

No data available

## 10. STABILITY AND REACTIVITY

---

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong Oxidizing Agent

### 10.6 Hazardous decomposition products

Other decomposition products - No data available  
In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Crystalline Silica: Oral Rat LD50 > 22,500 mg/kg

Calcium Hydroxide: Oral (rat) LD50: 7340 mg/kg

#### Inhalation :

This product can cause severe irritation of the respiratory system.

#### Ingestion:

This product can cause severe irritation or burning of gastrointestinal tract if swallowed.

#### Skin corrosion/irritation

Contact can cause severe irritation or burning of skin, especially in the presence of moisture.

#### Serious eye damage/eye irritation

Contact can cause severe irritation or burning of eyes, including permanent damage.

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity:

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

•This product may contain trace amounts of crystalline silica quartz which is listed by IARC "Carcinogenic to Humans" (Group 1 and "Known to be a Human Carcinogen" by NTP (National Toxicology Program).

#### Chronic health effects:

This product contains trace amounts of crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica can cause silicosis, as serious lung disease.

#### 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

#### Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

---

- 12.1 Toxicity**  
No data available
- 12.2 Persistence and degradability**  
No data available
- 12.3 Bioaccumulative potential**  
No data available
- 12.4 Mobility in soil**  
No data available
- 12.5 Results of PBT and vPvB assessment**  
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- 12.6 Other adverse effects**  
No data available

## 13. DISPOSAL CONSIDERATIONS

---

- 13.1 Waste treatment methods**
- Product**  
Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging**  
Dispose of as unused product.

## 14. TRANSPORT INFORMATION

---

- DOT (US)**  
Not dangerous goods
- IMDG**  
Not dangerous goods
- IATA**  
Not dangerous goods

## 15. REGULATORY INFORMATION

---

- SARA 302 Components**  
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313 Components**  
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- SARA 311/312 Hazards**  
No SARA Hazards
- Massachusetts Right To Know Components**  
Does not apply.
- Pennsylvania Right To Know Components**  
Does not apply.
- New Jersey Right To Know Components**  
Does not apply.
- California Prop. 65 Components**  
Airborne crystalline silica particulates of respirable size are known to the State of California to cause cancer.

## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

May form combustible dust concentrations in air

#### HMIS Rating

Health Hazard :	1
Chronic Health Hazard :	0
Flammability :	2
Physical Hazard :	0

#### NFPA Rating

Health Hazard :	1
Fire Hazard :	2
Reactivity Hazard :	0

#### Further information:

The information presented herein is based on the best data available and is believed to be correct. However, nothing stated in this information is to be taken as warranty, expressed or implied, regarding the accuracy of the information or the use of our product; nor shall anything contained herein be construed to constitute a permission or recommendation to practice any invention covered by patent or patent application, or know-how owned by Fluid Technology Service International, LLC, any of its divisions, or by others, without a license by the owner of the patent, patent application, or know-how.

Preparation Information  
Fluid Technology Service  
Product Safety – Americas Region  
+1 877-503-5843

Version : 1.0

Revision Date : 06/01/2015

Print Date : 06/01/2015