# Material Safety Data Sheet

**Product Name:** BFR Actify

**Prepared By:** Tm Brown

## 1. Identification

### Chemical Name:
Propionic Acid

### Chemical Family:
Adjuvant/Acidifier

### CAS Number:
Not determined.

### CAS Name:
Not determined.

### Synonyms/Common Name:
Not determined.

### DOT Information:
Not regulated by the DOT.

## 2. Physical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Dark amber</td>
</tr>
<tr>
<td>Color</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor Characteristics</td>
<td>Vinegar like odor</td>
</tr>
<tr>
<td>pH</td>
<td>Less than 1</td>
</tr>
<tr>
<td>Viscosity</td>
<td>NA</td>
</tr>
<tr>
<td>Specific Gravity (Water = 1)</td>
<td>1.023 @ 68 F</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NA</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>NA</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 200 F</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>NA</td>
</tr>
<tr>
<td>Percent Volatility</td>
<td>NA</td>
</tr>
<tr>
<td>Evaporation Rate (BAc = 1)</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Solubility in Oil</td>
<td>Not soluble</td>
</tr>
<tr>
<td>Solubility in Acetone</td>
<td>NA</td>
</tr>
</tbody>
</table>

## 3. Ingredients

<table>
<thead>
<tr>
<th>Material / Components</th>
<th>CAS #:</th>
<th>CAS Name</th>
<th>TLV Units</th>
<th>Approx. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphatidylcholine, Propionic acid, and Alkylphenol ethoxylate</td>
<td></td>
<td></td>
<td></td>
<td>81.75 %</td>
</tr>
</tbody>
</table>

## 4. Fire and Explosion Hazard Data

### Flash Point:
> 200 F

**Flammable Limits in Air % by volume:**

**Extinguishing Media:**
Water fog, dry chemical and carbon dioxide extinguishing media.

**Special Fire Fighting Procedures:**
Wear positive pressure self-contained breathing apparatus and full protective clothing. Avoid getting water from fire fighting into domestic or irrigation water supplies.

**Unusual Fire & Explosion Hazards:**
Containers may rupture violently if overheated. After fire is controlled, do not handle containers until they returned to ambient temperatures. Vapors may travel to a source of ignition and flash back.
5. HEALTH HAZARD DATA

Threshold Limit Value:

Effects of Overexposure:

Inhalation: Will cause irritation of nasal passages and throat.

Skin Contact: Prolonged or repeated exposure may lead to rash

Eye Contact: May cause eye irritation, including tearing, smarting, and redness.

Ingestion: May cause vomiting and abdominal cramps

Delayed Effects: Symptoms of exposure include headache, nausea, weakness, and confusion.

Medical Conditions Aggravated by Exposure

6. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing becomes difficult, consult a physician.

Skin Contact: Wash skin thoroughly with soap and water. If irritation develops, consult a physician.

Eye Contact: Flush eyes with water for 15 minutes, holding eyelids open. If irritation develops, consult a physician.

Ingestion: Do not induce vomiting. Obtain medical attention immediately.

NOTES TO PHYSICIAN:

In the event of an adverse response, treatment should be directed toward control of the symptoms.

7. REACTIVITY DATA

Stability: Stable.

Incompatibility: Do not allow contact with oxidizing materials. Can react with metals, strong bases, and amines.

Hazardous Combustion or Decomposition Products: Product may produce carbon dioxide and carbon monoxide.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None currently known.

8. SPILL OR LEAK PROCEDURES

Actions to take for Leaks & Spills: Dike and contain. If uncontaminated, reuse product. If contaminated, absorb spill with clay, sand, or sawdust. Place in a chemical waste container for proper disposal. Spill area will be quite slippery.

Waste Disposal Method: This material must be disposed of according to federal, state, and local procedures under the resource conservation and recovery act.
9. SPECIAL PROTECTION INFORMATION

Respiratory Protection: None needed under normal conditions. Wear a NIOSH/OSHA approved respirator if necessary.

   Eye Protection: Splash proof goggles.

   Skin Protection: Impervious gloves.

   Other Clothing: Impervious apron and footwear.

   Other Equipment: Eye wash station.

Engineering Controls:

10. HANDLING AND STORAGE

Special Precautions: Keep out of reach of children. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams, or ponds.

   Other Precautions: None currently known.

11. REGULATORY INFORMATION

Workplace Classification: Warning

12. TOXICOLOGICAL INFORMATION

   Acute Data: Not known

   Reproductive / Teratology Data: None known

13. ECOLOGICAL INFORMATION

   Fate in the Environment: No known

14. DISPOSAL CONDITIONS

   Procedures: Dispose of unrecoverable material in accordance with Federal, State and Local regulations

15. TRANSPORTATION INFORMATION

   DOT Classification: Not regulated by DOT.

   Warning Labels: