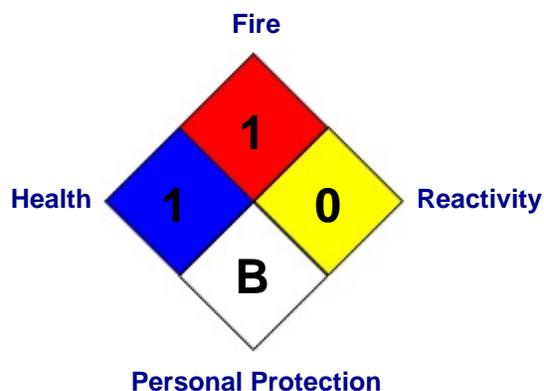




HMS Hazard Rating:

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal



I. Chemical Product and Company Identification

Product Name: EB-4L
Identification #: 35-475-0105
Product Use/Class: Gel breaker
Supplier: Superior Well Services
Manufacturer: Weatherford Fracturing Technologies
Emergency Contact: CHEMTREC 1 (800) 424-9300
Prepared By: RAA
Date Prepared: 04/11/2008

II. Composition/Information on Ingredients

Chemical Name: Ethylene Glycol
CAS Number: 107-21-1
Percent by Mass Less Than: 10-30

Exposure Limits

Threshold Limit Value - Time Weighted Average: NE
Threshold Limit Value - Short Term Exposure Limit: 50 ppm
Permissible Exposure Limit - Time Weighted Average: NE
Permissible Exposure Limit - Ceiling: 50 ppm
Company Threshold Limit - Time Weighted Average: NE
Skin: NO

III. Hazardous Identification

| | |
|---------------------|--|
| Emergency Overview: | May cause eye and skin irritation. |
| Eye Contact: | Liquid, aerosols and vapors of this product may be irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. |
| Skin Contact: | May cause skin irritation. Allergic reactions are possible. |
| Inhalation: | May be severely irritating to mucous membranes and lung tissue. |
| Ingestion: | This material may be harmful if swallowed. May be irritating to mouth, throat, and stomach. May cause abdominal discomfort, nausea and diarrhea. |
| Chronic Harards: | Overexposure may cause nervous system and kidney damage. May cause liver disorder (e.g. edema, proteinuria) and damage. |

Effects of Overexposure

| | | | |
|----------------------------|-------------------|---------------|-------------|
| Primary Route(s) of Entry: | n Skin Contact | n Eye Contact | n Ingestion |
| | o Skin Absorbtion | n Inhalation | |

IV. First Aid Measures

| | |
|---------------|---|
| Eye Contact: | Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention if irritation persists. |
| Skin Contact: | Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation persists. |
| Inhalation: | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Ingestion: | If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately. |

V. Fire Fighting Measures

| | |
|-------------------------------------|---|
| Flash Point: | >200 F |
| Auto Ignition Temperature: | N/A |
| Lower Explosive Temp.: | Not Determined |
| Upper Explosive Temp.: | Not Determined |
| Extinguishing Media: | Alcohol Foam, CO2, Dry Chemical, Water Fog |
| Unusual Fire and Explosive Harards: | "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. NO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. |
| Special Fire Fighting Procedures: | Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Use water spray, carbon dioxide, or dry chemical to extinguish fires. Use water to keep containers cool. |

VI. Accidental Release Measures

| | |
|--|---|
| Steps to be Taken in Case Material is Released or Spilled: | Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches. (See section VIII.) Spilled material should be contained and disposed of properly. |
|--|---|

VII. Handling and Storage

| | |
|-----------|---|
| Handling: | Handle all chemicals with care. Wash thoroughly after handling. |
| Storage: | Keep away from heat, sparks, and flames. Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials. |

VIII. Exposure Controls/Personal Protection

| | |
|-----------------------------|---|
| Engineering Controls: | Local exhaust and ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. |
| Respiratory Protection: | A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive air supply respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. |
| Skin Protection: | Where contact is likely, wear chemical resistant gloves and rubber boots. |
| Eye Protection: | Wear safety glasses with side shields (or goggles) and a face shield. Do not wear contact lenses. |
| Other Protective Equipment: | Emergency eyewash stations and deluge showers should be available in the work area. |
| Hygienic Practices: | Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin, and clothing. |

IX. Physical and Chemical Properties

| | | | |
|--|----------------|-------------------|---------------------------|
| Boiling Point: | 387 F | Vapor Density: | Not Determined |
| Odor: | Not Determined | Odor Threshold: | Not Determined |
| Appearance: | Yellow | Evaporation Rate: | Slower than Butyl Acetate |
| Solubility in H ₂ O: | Complete | Specific Gravity: | 1.2000 |
| Freeze Point: | Not Determined | pH at 50.0%: | 6-8 @ 100% |
| Vapor Pressure: | Not Determined | Viscosity: | Not Determined |
| Physical State: | Liquid | | |
| Coefficient of Water Oil Distribution: | Not Determined | | |

X. Stability and Reactivity

| | |
|-----------------------------------|--|
| Conditions to Avoid: | Excessive heat. |
| Incompatibility: | Avoid contact with strong acids, strong oxidizing agents, and strong caustics. |
| Hazardous Decomposition Products: | Carbon dioxide which can act as a asphyxiant. Carbon monoxide which is toxic if inhaled. |
| Hazardous Polymization: | Will not occur under normal conditions. |
| Stability: | This product is stable under normal storage conditions. |

XI. Toxicological Properties

| | |
|---------------------------|--------------------------------------|
| Toxicological Properties: | No product information is available. |
| Oral: | No product information is available. |
| Dermal: | No product information is available. |
| Inhalation: | No product information is available. |

XII. Ecological Information

Ecological Properties: No product information is available.
Ecotoxicity: No product information is available.
Chemical Fate Information: No product information is available.

XIII. Disposal Consideration

Disposal Method: Consult local, state, and federal regulatory agencies for acceptable disposal procedures and disposal locations. Disposal in streams or sewers may be prohibited by federal, state, and local regulations.
RCRA Status: No product information is available.

XIV. Transportation Information

DOT Proper Shipping Name: Not DOT Regulated
DOT Technical Name:
DOT Hazard Class:
DOT Hazard Subclass:
DOT UN/NA Number:
Packing Group:
Resp. Guide Page:

XV. Regulatory Information

| | | | |
|---|--|------------|--------|
| OSHA: | Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200) | | |
| TSCA Status: | All components of this product are listed on the Toxic Substance Control Act Inventory or are excluded from the listing requirements. | | |
| CERCLA SARA: | This product has been reviewed according to the EPA 'Hazard Categories' promulgated under the sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: Immediate Health Hazard. | | |
| SARA Section 313 Required Reporting: | Chemical | CAS Number | WT/WT% |
| | Ethylene Glycol | 107-21-1 | 10-30 |

XVI. Other Information

Other Information: NA = Not applicable ND = Not Determined NI = No Information NE = Not Established

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, or when used in conjunction with other products, exposures must be evaluated by the user so that appropriate handling practices and training programs can be established to ensure safe workplace operations. This information is confidential to Superior Well Services, Ltd. (SWSI) and intended solely for the use of the individual or entity to whom they are directly distributed. Distribution or use beyond the individual or entity is strictly prohibited without the consent of SWSI.