Section 1: Product & Company Identification

Product Name: DFLV-1605
Product Use: Fluid Loss Additive
Chemical Name and/or Family: Proprietary Polymer in Water-in-Oil Emulsion

Company Information:

<table>
<thead>
<tr>
<th>Plant Facility</th>
<th>Corporate Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>CoilChem, LLC</td>
<td>CoilChem, LLC</td>
</tr>
<tr>
<td>3928 Hwy80</td>
<td>2830 NW 32nd Street Suite 101</td>
</tr>
<tr>
<td>Rayville, LA 71269</td>
<td>Newcastle, OK 73065</td>
</tr>
<tr>
<td>(318)-728-6565</td>
<td>(405)-392-2505</td>
</tr>
</tbody>
</table>

Emergency Information: Contact Infotrac: 1-800-535-5053

S.D.S. Revision Date: December 16, 2013

Section 2: Hazards Identification

Emergency Overview
Physical Appearance: Clear to opaque, milk white to light-tan emulsion
Immediate Concerns: Warning! Causes eye and skin irritation. Mist may be harmful if inhaled.

Potential Health Effects

Eyes: Severely irritating. If not removed promptly, it will injure eye tissue, which may result in permanent damage.

Skin: Low order of toxicity. Irritating.

Ingestion: Low order of toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchopneumonia or pulmonary edema.

Inhalation: Irritating to eyes and respiratory tract in high concentrations. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection.

Cancer Statement: This product (or any component at a concentration of 0.1% or greater) is not listed by the NTP, IARC, OSHA, or EPA as a carcinogen.

Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt%</th>
<th>CAS#</th>
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<tbody>
<tr>
<td>Proprietary Polymer</td>
<td>16 – 40</td>
<td>Confidential</td>
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<tr>
<td>Petroleum Distillate</td>
<td>18 – 30</td>
<td>64742-47-8</td>
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<tr>
<td>Surfactants</td>
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</table>


<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Supplier</th>
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<tbody>
<tr>
<td>Petroleum distillate</td>
<td>--------</td>
<td>---------</td>
<td>165 ppm</td>
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<td></td>
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</tbody>
</table>

Comments: Petroleum Distillate: Limit based on hydrocarbon content.
Section 4: First-Aid Measures

**Eyes:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get medical attention

**Skin:** Wash with large amounts of water, use soap if available. Remove grossly contaminated clothing, including shoes, and launder before reuse. If irritation persists, seek medical attention.

**Ingestion:** If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor for breathing difficulty.

**Inhalation:** First aid is not likely to be required. If symptoms develop, remove individual to fresh air and get medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Section 5: Fire Fighting Measures

**Flashpoint and Method:** > (200°F) SETA Flash CC

**Flammable Limits:** Not Available

**Auto ignition Temperature:** Not Available

**Hazardous Combustion Products:** No Unusual

**Other Considerations:** Contact with water may form a gel which is extremely slippery and difficult to clean up.

**Fire Fighting Procedures:** Use water to cool fire-exposed surfaces and to protect personnel. Isolate “fuel” supply from fire. Use foam, dry chemical, or water spray to extinguish fire.

**Fire Fighting Equipment:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

**Environmental Precautions**

**Water Spill:** Prevent additional discharge of material, if possible to do so without hazard. This material is water soluble/dispersible and not to be recoverable. If possible, contain and recover floating material.

**Land Spill:** Prevent additional discharge of material, if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in a public area, advise authorities.

**General Procedures:** Spilled product should be scooped up as much as possible and the remaining thin layer absorbed with a solid material such as sweeping compound. Washing the area with water should only be attempted after most of the polymer has been removed.

**Release Notes:** If the spill was into water, it may require reporting to the National Response Center, see Section 15, Clean Water Act. Recycle or dispose of recovered material in accordance with all federal, state and local regulations.

**Comments:** Contact with water may form a gel which is extremely slippery and difficult to clean up.
Section 7: Handling & Storage

General Procedures: Keep contained closed. Both open and handle containers with care. Store in a cool, well ventilated place away from incompatible materials. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

Handling: Mix well before using. Upon standing, product may stratify (as noted by a clear upper layer of oil). Mild agitation will restore uniformity.

Storage: Do not use aluminum, copper or mild steel tanks, pumps or piping with this product. Store in glass, stainless steel, plastic or epoxy lined containers.

Storage Temperature: (40°F) minimum to (90°F) maximum. Storage pressure: Atmospheric

Storage Temperature: Short term exposure to higher or lower temperatures will not normally harm this product. If frozen, it should be warmed to 40-90°F and agitated prior to use. Low temperature storage will cause product viscosity to increase, possibly causing gelling or feeding difficulties.

Shelf Life: At least six months in unopened containers and when stored within the recommended temperature range.

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Ventilation should be provided to control worker exposures and prevent health risk; and as necessary to reduce, prevent and control aerosol generation.

Personal Protection

Eyes and Face: Chemical goggles required.

Skin: Where contact may occur, wear chemical resistant gloves and long sleeves.

Respiratory: Where concentrations in air may exceed limits given in this section or Section 2 and engineering, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

Other Use Precautions: Safety shower and eyewash station are necessary in area of use.

Comments: Due to the oil-based components of this mixture, if misting may occur, exposures are recommended to be controlled at 5 mg/m3 or lower.

Section 9: Physical & Chemical Properties

Physical State: Liquid

Vapor Pressure: Not Available

Vapor Density: >1 (Air = 1)

Boiling Point: ~ (212°F) (initial)

Freezing Point: (20°F) to (32°F)

Evaporation Rate: <1 (n-Butyl Acetate = 1)

Specific Gravity: 1.00 to 1.20 at (77°F)

Viscosity: Not Available

Water Solubility: Soluble with vigorous agitation. Contact with water at a product content greater than approximately 2% (without vigorous agitation) results in a highly viscous material which is extremely slippery, difficult to cleanup, and can clog small drains.
Section 10: Stability & Reactivity

Stable: Yes
Hazardous Polymerization: No
Stability: Not applicable
Polymerization: Not Applicable

Section 11: Toxicological Information

No Data Available

Section 12: Ecological Information

No Data Available

Section 13: Disposal Considerations

Empty Container: “Empty” containers retain product residue (liquid and/or vapor). Although the residue is a low fire hazard (flash point >200°F), it can burn upon heating to temperatures at or above the flashpoint and can be dangerous. Therefore, “DO 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.

RCRA/EPA WASTE INFORMATION: Discarded product, as sold, should not be considered a RCRA Hazardous Waste.

General Comments: Ensure compliance with local, state, and Federal regulations in disposing of these containers residual contents or rinsing.

Section 14: Transport Information

Hazard Class: None
Shipping Class: 55 (Non-Hazardous)
DOT: Not Regulated

Section 15: Regulatory Information

United States

SARA Title III (Superfund amendments and Reauthorization Act)
Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: No
311/312 Hazard Categories: Acute Health
313 Reportable Ingredients: this product does not contain Section 313 Reportable Ingredients.

CERCLA (Comprehensive Response, Compensation, and Liability Act)
CERCLA Regulatory: If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.
TSCA (Toxic Substance Control Act)

TSCA Status: All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements. RCRA Status: Discarded product, as sold, would not be considered a RCRA Hazardous Waste.

Clean Water Act: This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 1-800-424-8802.

Section 16: Other Information

HMIS Codes
Flammability: 1  Health: 2  Physical Hazard: 0

This product’s safety information is provided to assist our customers in assessing compliance with health, safety and environmental regulations. The information contained herein, is based on data available to us and is believed to be accurate, although no guarantee or warranty is provided by this company in this respect. Since the use of this product is within the exclusive control of the user, it is the user’s obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal regulations concerning the product. All materials in this product are produced in compliance with Public Law 94-469 (also known as the “Toxic Substances Control Act” of 1976).