Section 1: Product & Company Identification

Product Name: SS-3000  
Product Use: Clay & Shale Inhibitor/ KCL Substitute  
Chemical Family: Blend

Company: Plant Facility: Corporate Office:  
CoilChem, LLC  
3928 Hwy 80  
Rayville, LA 71269  
(318) 728-6565  
CoilChem, LLC  
2103 East Ladd Rd  
Washington, OK 73093  
(405) 392-2505

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

S.D.S. Revision Date: January 8, 2015

Section 2: Hazards Identification

Aqueous: Colorless to light amber solution; slight amine (Fish-like) odor; poses little to no immediate hazards.

Potential Health Effects:

Eye: No hazard expected from aqueous.
Inhalation: No hazard expected.
Skin: No hazard expected
Ingestion: Convulsions may occur with ingestion of 100 % choline chloride. Effects reported in rats exposed to 200-670 mg/ ml included an initial excitement period, characterized by jerking movements and occasional convulsions; bloody tears; a subsequent depression with complete relaxation and depressed respiration which terminated in respiratory paralysis. No hazards expected from swallowing dry or aqueous.

Systemic: No known physiological hazards.
Medical Conditions Aggravated by Exposure: None Determined.
Exposure Symptoms: Acute: None expected. Chronic: None determined.

Section 3: Composition/ Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>Weight %</th>
<th>CAS #</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>This product does not contain any regulated hazardous ingredients</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 4: First-Aid Measures

**Eye:** Flush with clean, low-pressure water for at least 15 minutes while occasionally lifting eyelids. If irritation occurs and persists, get medical attention.

**Inhalation:** No adverse effects anticipated by breathing small amounts during proper industrial handling. If there is difficulty breathing, remove to fresh air and get medical attention.

**Skin:** Wash with water, use soap if available. If extensive skin contact occurs, remove contaminated clothing and wash contacted skin with soap and water. In the unlikely event that irritation does occur/persist after contact, check with medical personnel. Wash contaminated clothing before reuse.

**Ingestion:** Seek medical attention

**Note to Physician:** Medical attention should be required. There are no adverse effects expected from exposure to this product. If medical attention is sought, treatment should be based on the judgment of the physician in response to the reactions of the patient.

Section 5: Fire Fighting Measures

**Flammable Properties:**
- Flash point: > 325°F; Method: N/A

**Flammable Limits:**
- Lower Flammable Limit (LFL): N/A
- Upper Flammable Limit (UFL): N/A

**Auto Ignition Temperature:**
- N/A

**Hazardous Combustion Products:**
- No specific hazards. Aqueous will not support combustion until all water is boiled off.

**Extinguishing Method:**
- Water, Foam, CO₂, Dry Chemical

**Fire Fighting Equipment:**
- Full protective equipment (Bunker Gear) and NIOSH/MSHA approved SCBA should be used for all indoor and any significant outdoor fires. For small outdoor fires which may be easily extinguished with a portable fire extinguisher, use of a SCBA may not be required.

**Fire Fighting Instructions:**
- Water runoff can cause environmental damage. Dike and collect water.

Section 6: Accidental Release Measures

If liquid, use absorbent (e.g. corn cob), vacuum or sweep material and place in a disposal container.

Section 7: Handling & Storage

**General Handling Precautions:** Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Avoid breathing dust. Minimize dust generation and minimize accumulation on floors to prevent slips. Ensure containers are properly secured before moving.

**Storage Information:** Storage temperature: Ambient recommended. No known minimum; keep containers closed and away from moisture.
Shelf Life: No known limit. Clumping may occur under humid conditions for Dry products. Discoloration may occur for aqueous products. Use within 1 year is recommended.

Section 8: Exposure Controls & Personal Protection

**Engineering Controls:** Provide ventilation and particulate control to maintain airborne levels below and exposure guidelines.

**Eye Protection:** Use safety glasses. If there is a potential for exposure to particles which would cause mechanical injury to the eye, wear chemical goggles.

**Respiratory Protection:** For most conditions, no respiratory protection should be needed; however in dusty atmospheres, use an approved dust respirator. In confined or poorly ventilated areas or emergency and other conditions where the exposure guidelines may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus.

**Skin Protection:** As a general precaution, use gloves. No additional precautions other than clean body-covering clothing should be needed.

Section 9: Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear to light amber</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Amine Odor</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.02</td>
</tr>
<tr>
<td>Solubility</td>
<td>Completely Soluble in water</td>
</tr>
<tr>
<td>Ph</td>
<td>6.5-7.0</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>70%-257°F (125°C)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Available (Assumed to be low)</td>
</tr>
<tr>
<td>VOC Content</td>
<td>Not Available (Assumed to be Zero)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>70%-15mmHg @ 25°C</td>
</tr>
</tbody>
</table>

Section 10: Stability & Reactivity

**Chemical Stability:** Stable under normal conditions

**Material Incompatibility:** Dry may generate heat upon contact with moisture. Avoid contact with strong acids and bases.

**Hazardous Decomposition Products:** Compounds of Carbon, Hydrogen, Nitrogen, Oxygen, and Chlorine.

**Hazardous Polymerization:** None.
Section 11. Toxicological Information

No Data Available

Section 12. Ecological Information

No Data Available

Section 13: Disposal Considerations

Not considered a hazardous waste under Federal Hazardous Waste Regulations (40 CFR 261). Product solutions should be treated in wastewater treatment plant after securing treatment plant acceptance. Powder or absorbed solution should be land filled after securing Environmental Regulatory Agency and landfill operations approval. Consult state and local regulations regarding proper disposal as they may be more restrictive or otherwise different from Federal regulations. This product is toxic to fish at high concentrations. Prevent flow/discharge into lakes, ponds, streams, or public waterways.

Section 14: Transportation Information

UN Number: N.O.S.
Hazard Class: None
Packing Group: III
Labeling: Containers of this product need no special warning labels. Only a product identity label is needed.

Section 15: Regulatory Information

U.S. Federal Regulations:

OSHA: This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

PSM: This product is not subject to Process Safety Management (29CFR 1910.119).

FIFRA: Not Applicable

TSCA: On TSCA Inventory

CERCLA: Reportable Quantity- None (40 CFR 302.4)

SARA Title III: Section 302 Extremely Hazardous Substances- None (40 CFR 355)
Section 311/312 Hazard Categories- None (40 CFR 370.2)
Section 313 Toxic Chemicals- None (40 CFR 372.65)
Section 16: Other Information

FDA: This product does not contain protein derived from mammalian tissues and is certified to be free of the agent that causes transmissible spongiform encephalopathy (TSE) [21 CFR 589.2000].

Hazard Ratings: The following hazard ratings are recommended for this product.

**NFPA:**

- **Fire:** 1
- **Health:** 0
- **Reactivity:** 0
- **Specific Hazard:** None

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).*