SECTION 1: IDENTIFICATION

Product Name: Cottonseed Methyl Ester
CAS Number: 61788-60-1
Chemical Name: Cottonseed Methyl Ester; Cottonseed oil fatty acid methyl Ester
Synonyms: Methyl Ester of Cottonseed Oil

Company
Silver Fern Chemical, Inc.
2226 Queen Anne Avenue North
Suite #C
Seattle WA 98109, USA

24 Hour Emergency Contact
Infotrac 800-535-5053
Outside USA & Canada 352-323-3500

SECTION 2: HAZARD IDENTIFICATION

Warning

H313: May be harmful in contact with skin
H320: Causes eye irritation
H333: May be harmful if inhaled
H335: May cause respiratory irritation
H303: May be harmful if swallowed
SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Content (W/W)</th>
<th>Hazardous Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>61788-60-1</td>
<td>&gt; 99%</td>
<td>Cottonseed Methyl Ester</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with soap and water. If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

SECTION 5: FIRE FIGHTING MEASURES

**Flash Point:** > 511°F (266°C)

Rags soaked with any solvent or oily material present a fire hazard and should always be stored in a "UL" listed or "Factory Mutual" approved covered container. Improperly stored rags can create conditions that lead to oxidation that in turn, may lead to spontaneous combustion.

**Extinguishing Media:**

Dry chemical, foam, carbon dioxide, and water fog.

**Fire Fighting Equipment / Instructions**

Self-contained breathing apparatus is recommended for firefighters. Apply water fog or mist gently; heavy application of hot oil could cause foaming. Avoid contact with hot oil.

SECTION 6: ACCIDENTAL RELEASE MEASURES

**Emergency Action:**

Contain or isolate spill or leak area immediately. Keep unauthorized personnel away.

Ventilate closed spaces before entering.

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Wear appropriate personal protective equipment during cleanup.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Large Spills:** Dike ahead of liquid spill for later disposal. Prevent entry into waterways, sewers, basements or confined areas. Surfaces may become slippery after spillage.

SECTION 7: HANDLING AND STORAGE

**Storage:** Store in a dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. Store away from strong oxidizers.

**Handling:** Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Effective Date: 10/29/2013
SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Equipment (PPE)

Respiratory protection: Use general ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces. If vapors are present or irritation is experienced, NIOSH approved respiratory protection for organic vapors should be worn.

Hand protection: Use impervious gloves.

Eye protection: Wear safety glasses or chemical goggles and a face shield if splashing is possible.

Body protection: Wear suitable protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Fluid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Yellow Liquid</td>
</tr>
<tr>
<td>Specific Gravity (water = 1)</td>
<td>0.882 g/ml (7.35lb/gal) @ 25°C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt; 400°F</td>
</tr>
<tr>
<td>Solubility in Water (by weight %)</td>
<td>Not Soluble</td>
</tr>
<tr>
<td>Odor</td>
<td>Slightly Sweet</td>
</tr>
<tr>
<td>Color</td>
<td>Yellow to amber</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg at 20°C)</td>
<td>&lt; 5 mm Hg</td>
</tr>
<tr>
<td>Vapor Density (air = 1)</td>
<td>Estimated heavier than air.</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid: Avoid strong oxidizing agents.

Chemical Stability: Stable under normal conditions.

Incompatibility: This product may react with strong oxidizing agents and alkalies.

Hazardous Decomposition: Methanol may be formed if material is hydrolyzed or saponified.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Carcinogenicity: Not listed as carcinogenic according to IARC, NTP or OSHA.

Mutagenicity: This product class is non-mutagenic.

LD50 Values:

Oral LD50 (rat) = >5000 - 15,000 mg/kg

Dermal LD50 (rabbit) = >2,000 < or equal to 20,000 mg/kg
SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Environmental impact: This product is biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State and Local regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

SECTION 14: TRANSPORT INFORMATION

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

Inventories:

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL), Europe (EINECS/ELINCS/Polymer/NLP), Korea (ECL), Australia (AICS), China (EICSC 2003).

SECTION 16: OTHER INFORMATION

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