1 - Product and Company Identification

Product name: Lubricit MCT-DF
Product type/usage/industry: Medium Chain Triglyceride Emollient/Lubricant
Manufacturer/Supplier Information: Zschimmer and Schwarz, Inc.
70 GA Hwy. 22 W
Milledgeville, GA 31061
Phone: (478) 454-1942

Emergency contact: Company: (478) 454-1942
CHEMTREC (24HR): (800) 424-9300

2 – Hazards Identification

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
<th>PPE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

GHS Classification:

Physical Hazards: No physical hazards according to OSHA/GHS criteria.
Health Hazards: No health hazards according to OSHA/GHS criteria.
Environmental Hazards: No environmental hazards according to OSHA/GHS criteria.
Precautionary Statements: P103: Read label before use
P233: Keep container tightly closed
P262: Do not get in eyes, on skin, or on clothing
P281: Use personal protective equipment as required

3 – Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Material or component</th>
<th>Avg % weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>73398-61-5</td>
<td>Capric/Caprylic Triglyceride</td>
<td>100%</td>
</tr>
</tbody>
</table>

This is not intended to be a complete compositional disclosure. Information provided pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200/ HazCom 2012). See Section 8 for Exposure Limits, if any.
4 - First Aid Measures

Eyes: P305: IF IN EYES: Immediately flush with gentle but large stream of water for 15 min, lifting upper and lower eyelids occasionally. Get medical attention if irritation develops.

Skin: P302: IF ON SKIN: Wash affected area with soap and water. If itching or redness develops, seek medical attention. Contaminated clothing should be removed immediately and washed before reuse. Contaminated shoes should be discarded.

Inhalation: P304: IF INHALED: Move the person to fresh air. If breathing becomes difficult, contact a physician.

Ingestion: P301: IF SWALLOWED: Do not induce vomiting. If large amounts were swallowed, give water to rinse mouth and get medical attention.

5 - Firefighting Measures

Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Unsuitable Extinguishing Media: Water stream may splatter burning material and spread fire.

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and protective clothing when fighting any chemical fire.

Unusual Fire & Explosion Hazards: In case of fire, containers may explode from internal pressure. Cool with water. May emit toxic fumes of CO and CO₂ under fire conditions.

6 - Accidental Release Measures

Personal precautions: P261: Avoid breathing mists of product
P262: Do not get in eyes, on skin, or on clothing
P264: Wash thoroughly after handling
P280: Wear protective gloves/protection/eye protection/face protection

Environmental precautions: P273: Avoid release to the environment
Limit leakage with earth or sand. Do not discharge into the drains/surface water/groundwater. Dispose of absorbed material in accordance with local, state and federal regulations.

Methods for Containment/Cleaning Up: Take up with absorbent material (e.g. vermiculite, general purpose binder). Dispose of absorbed material in accordance with local, state, and federal regulations.
## 7 - Handling and Storage

**Handling:**
- P261: Avoid breathing mists of product
- P262: Do not get in eyes, on skin, or on clothing
- P264: Wash thoroughly after handling
- P280: Wear protective gloves/protective clothing/eye protection/face protection

**Storage:**
- P402+404: Store in a dry place. Store in a closed container
- P403+233: Store in a well ventilated place. Keep container tightly closed
- Protect from moisture. Do not store together with acids.

**Special Packaging Requirements:**
None known.

**Incompatible Materials or Fire/Explosion Protection:**
Strong oxidizers.

## 8 - Exposure Controls/Personal Protection

**Personal Protective Equipment (PPE):**
- **Hand Protection:** Use impervious gloves.
- **Eye Protection:** Wear safety glasses with side shields or full face shield.
- **Skin Protection:** Wear protective clothing.
- **Respiratory Protection:** Recommended if ventilation is limited.

**Engineering Measures/Controls:**
- **Ventilation:** Ensure adequate ventilation to maintain product at acceptable airborne levels.
- **Other measures:** Eye-wash station.

**Exposure Limits/Guidelines:**

### ACGIH

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS #</th>
<th>TYPE</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capric/Caprylic Triglyceride</td>
<td>73398-61-5</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

### OSHA

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS #</th>
<th>TYPE</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capric/Caprylic Triglyceride</td>
<td>73398-61-5</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>
# 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form and Appearance:</strong></td>
<td>Clear to slightly hazy, colorless to pale yellow liquid</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>Faint</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Boiling Point:</strong></td>
<td>&gt;500°F (260°C) (lit.)</td>
</tr>
<tr>
<td><strong>Vapor Pressure:</strong></td>
<td>&lt; 0.01 mmHg @ 20°C</td>
</tr>
<tr>
<td><strong>Flash Point:</strong></td>
<td>~455°F (235°C) (COC)</td>
</tr>
<tr>
<td><strong>UEL:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td>~ 30 cps @ 25°C</td>
</tr>
<tr>
<td><strong>Octanol/Water Partition Coefficient:</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature:</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>Volatile content:</strong></td>
<td>&lt; 0.1%</td>
</tr>
<tr>
<td><strong>Odor Threshold:</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>Melting/Freezing point:</strong></td>
<td>~32°F (0°C) (pour pt.)</td>
</tr>
<tr>
<td><strong>Vapor Density (Air=1):</strong></td>
<td>&gt;1</td>
</tr>
<tr>
<td><strong>Evaporation Rate:</strong></td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td><strong>LEL:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Solubility in Water:</strong></td>
<td>Insoluble</td>
</tr>
<tr>
<td><strong>Specific Gravity/Bulk Density:</strong></td>
<td>~ 0.95 @ 25°C</td>
</tr>
<tr>
<td><strong>Decomposition Temperature:</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>VOC Data:</strong></td>
<td>N/D</td>
</tr>
</tbody>
</table>

# 10 - Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemical Stability:</strong></td>
<td>Product is stable under ordinary conditions of use and storage.</td>
</tr>
<tr>
<td><strong>Hazardous Polymerization:</strong></td>
<td>Will not occur.</td>
</tr>
<tr>
<td><strong>Conditions to Avoid:</strong></td>
<td>Exposure to moist air or water, extreme heat, sources of ignition.</td>
</tr>
<tr>
<td><strong>Incompatible Materials:</strong></td>
<td>Strong oxidizers.</td>
</tr>
<tr>
<td><strong>Hazardous Decomposition Products:</strong></td>
<td>Extremely high temperatures and thermal decomposition may produce CO₂.</td>
</tr>
</tbody>
</table>
## 11 - Toxicological Information

### Acute Data:

**Routes of Exposure:** Eye contact, skin contact, ingestion, inhalation (mist).

**Eye Contact:** Minimal irritation, if any.

**Skin Contact:** Minimal irritation, if any.

**Ingestion:** Practically nontoxic.

**Inhalation:** Minimal irritation, if any, from mists at ambient temperatures.

**Skin Sensitization:** NDA

### Acute Toxicity/Effects:

<table>
<thead>
<tr>
<th>Test</th>
<th>Test type</th>
<th>Species</th>
<th>Results</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Toxicity</td>
<td>LD50</td>
<td>Rat</td>
<td>&gt;34000 mg/kg</td>
<td>Practically nontoxic</td>
</tr>
<tr>
<td>Dermal Toxicity</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>-</td>
</tr>
<tr>
<td>Inhalation Toxicity</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>-</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>-</td>
</tr>
</tbody>
</table>

### Chronic Data:

**Carcinogenicity:** IARC No, NTP No, ACGIH No, OSHA No

**Mutagenicity:** Not mutagenic.

**Reproductive Effects:** NDA

**Target Organ Effects:** NDA
### 12 - Ecological Information

#### Ecotoxicity/Effects:

<table>
<thead>
<tr>
<th>Test:</th>
<th>Test type:</th>
<th>Species:</th>
<th>Results:</th>
<th>Comments:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity to Fish</td>
<td>LC50</td>
<td>Fish</td>
<td>&gt; 1000 mg/l (48h)</td>
<td>Far exceeds water solubility limit.</td>
</tr>
<tr>
<td>Acute Toxicity to Daphnia magna</td>
<td>EC50</td>
<td>&gt; 100mg/l (48h)</td>
<td>Far exceeds water solubility limit.</td>
<td></td>
</tr>
<tr>
<td>Acute Toxicity to Algae</td>
<td>EC50</td>
<td>&gt; 100mg/l (48h)</td>
<td>Far exceeds water solubility limit.</td>
<td></td>
</tr>
<tr>
<td>Chronic Toxicity to Fish</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Environmental Fate:

- **Persistence/Degradability:** Product is readily biodegradable. Elimination: ~93% in 28d
- **COD/BOD5:** NDA
- **Bioaccumulation Potential:** Low.
- **Mobility in Soil:** Moderate due to low water solubility and low vapor pressure.
- **Other Adverse Effects:** NDA

### 13 - Disposal Considerations

- **Product:** Dispose of absorbed material/content and/or container in accordance with local, state, federal and/or international regulations.
- **Packaging:** NDA
14 - Transport Regulations

US DOT Regulations (Land Transport):

- Proper Shipping Name: Not regulated.
- Hazard Class: Not regulated.
- UN Number: Not regulated.
- Packing Group: Not regulated.
- Label Required: Not regulated.
- Other Information: Not regulated.

IATA/ICAO Regulations (Air Transport):

- Proper Shipping Name: Not regulated.
- Hazard Class: Not regulated.
- UN Number: Not regulated.
- Packing Group: Not regulated.
- Label Required: Not regulated.
- Other Information: Not regulated.

IMDG/IMO Regulations (Maritime Transport):

- Proper Shipping Name: Not regulated.
- Hazard Class: Not regulated.
- UN Number: Not regulated.
- Packing Group: Not regulated.
- Label Required: Not regulated.
- EMS Number: Not regulated.
- Segregation Groups: Not regulated.
- Other Information: Not regulated.
15 - Regulatory Information

Contents of this MSDS comply with the OSHA standard 29 CFR 1910.1200/HazCom 2012.

Domestic Regulations:

TSCA Status: All the components in this material are listed on or exempt from the TSCA inventory.

SARA Title 302 ( Extremely Hazardous Substances): TPQ – Not listed.

SARA Title 304 ( Extremely Hazardous Substances): RQ – Not listed.

CERCLA Hazardous Substances (RQ): Not listed.


Clean Air Act Section 112 (TQ): TQ – Not listed.

State Information:

California Proposition 65: May contain traces (< 10 ppm) of the following components known to the State of California to cause cancer, birth defects, or other reproductive harm.

State Right to Know/ Hazardous Substance List Information:

None.

The following chemicals are present on one or more Right to Know/Hazardous Substance Lists for the states of MA, MN, NJ, PA and RI.

None.

This is not an exhaustive list. For information on listings in other states, please consult that state’s RTK/HSL.

Chemical Inventories:

<table>
<thead>
<tr>
<th>Component/CAS</th>
<th>TSCA</th>
<th>EINECS/ELINCS</th>
<th>Australia (AICS)</th>
<th>Canada (DSL/NDSL)</th>
<th>Korea (ECL)</th>
<th>Japan (ENCS)</th>
<th>China (IECSC)</th>
<th>New Zealand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capric/Caprylic Triglyceride (73398-61-5)</td>
<td>Yes</td>
<td>Yes/No</td>
<td>Yes</td>
<td>Yes/No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
16 - Additional Information

Key to Abbreviations:

NDA - No data available  N/D - Not determined  N/A - Not applicable  N/E - Not established

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