SPARTAN CHEMICAL COMPANY, INC.  
WHMIS MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT INFORMATION

PRODUCT IDENTIFIER  
BIORENEWABLES INDUSTRIAL DEGREASER

PRODUCT USE: Water-Rinsable Industrial Strength Degreaser

MANUFACTURER'S NAME & ADDRESS  
Spartan Chemical Company, Inc.  
1110 Spartan Drive, Maumee, OH 43537 USA

SECTION II: HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CAS REGISTRY NO.</th>
<th>% W</th>
<th>CHEMICAL NAME(S)</th>
<th>TWA mg/m³</th>
<th>STEL mg/m³</th>
<th>Ceiling mg/m³</th>
<th>LD50</th>
<th>LC50</th>
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<tbody>
<tr>
<td>67784-80-9</td>
<td>50-60</td>
<td>Soybean oil methyl esters</td>
<td>---</td>
<td>Not Established</td>
<td>Not available</td>
<td>Not available</td>
<td></td>
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<tr>
<td>64742-47-8</td>
<td>25-35</td>
<td>Petroleum distillates</td>
<td>1200 (Exxon)</td>
<td>---</td>
<td>---</td>
<td>Not available</td>
<td>Not available</td>
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<tr>
<td>34398-01-1</td>
<td>5-10</td>
<td>Alcohol ethoxylate</td>
<td>---</td>
<td>Not Established</td>
<td>Not available</td>
<td>Not available</td>
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<tr>
<td>8002-26-4</td>
<td>1-5</td>
<td>Distilled tall oil</td>
<td>---</td>
<td>Not Established</td>
<td>Not available</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>5989-27-5</td>
<td>1-5</td>
<td>d-Limonene</td>
<td>---</td>
<td>Not Established</td>
<td>Not available</td>
<td>Not available</td>
<td></td>
</tr>
</tbody>
</table>

SECTION III: PHYSICAL DATA

BOILING POINT
>204 °C (>400°F)
VAPOUR PRESSURE
Not established
VAPOUR DENSITY (AIR = 1)
Not established
pH
N/A
APPEARANCE AND ODOR
Pale yellow liquid, mild citrus odor
ODOR THRESHOLD
Not available
COEFFICIENT OF WATER/OIL DISTRIBUTION
Not available

SECTION IV: FIRE & EXPLOSION DATA

FLASH POINT
82 °C (179°F)
METHOD USED
ASTM - D56
EXTINGUISHING MEDIA
Foam, dry chemical, CO2, water fog or spray.
CONDITIONS OF FLAMMABILITY
Not applicable
AUTO-IGNITION TEMPERATURE
Not applicable

HAZARDOUS COMBUSTION PRODUCTS
Not established
EXPLOSION DATA

SPECIAL FIRE FIGHTING PROCEDURES
Use self-contained breathing apparatus for maximum respiratory protection. Water may be used to cool containers if not ruptured or leaking.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Combustible liquid and vapors. Keep away from heat, sparks or flame.
SECTION V: REACTIVITY DATA

STABILITY: STABLE  
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers 
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide

SECTION VI: TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF ENTRY: Eye Contact, Skin Contact, Ingestion, Inhalation 
EXPOSURE LIMIT: Not established for mixture.

EFFECTS OF ACUTE EXPOSURE:
- EYE CONTACT: Causes eye irritation with symptoms such as pain, redness and swelling.
- INGESTION: Harmful or fatal if swallowed. Symptoms may include nausea, diarrhea, and intestinal upset.
- SKIN CONTACT: Causes skin irritation with symptoms such as pain, redness and swelling.
- INHALATION: Breathing vapors or mist may cause respiratory irritation.

EFFECTS OF CHRONIC EXPOSURE: None known
IRRITANCY OF PRODUCT: Causes skin and eye irritation
SENSITIZATION TO PRODUCT: Contains d-limonene and tall oil which may cause skin sensitization with repeated contact.
CARCINOGENICITY: No
REPRODUCTIVE TOXICITY: Not available
TERATOGENICITY: Not available
MUTAGENICITY: Not available
SYNERGISTIC PRODUCTS: Not available

SECTION VII: PREVENTIVE MEASURE

PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS:
Wear nitrile rubber or other impervious gloves and splash goggles. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations. If respiratory irritation can not be prevented by ventilation, use of a NIOSH approved respirator suitable for the conditions of use and chemicals in Section II should be considered. (N95 or higher recommended)

LEAK AND SPILL PROCEDURE: Dike and contain spills with inert material (sand, earth, commercial absorbent, etc.) and transfer to containers for disposal. Keep spill out of storm sewers and waterways.
WASTE DISPOSAL METHOD: Assure conformance with applicable regulations.
HANDLING PROCEDURES: Avoid contact with eyes, skin and clothing. Do not swallow. Avoid breathing product vapors or mist. Wash thoroughly after handling. Mops, towels or rags dampened with this product are combustible and may also be subject to spontaneous combustion. Thoroughly rinse these materials with water to remove product and/or dispose of in covered water filled metal containers.
STORAGE REQUIREMENTS: Keep container closed when not in use. Do not freeze. Do not store above 52°C (125°F). Keep out of reach of children.
SPECIAL SHIPPING INFORMATION: Not regulated: Non-Hazardous Products

SECTION VIII: FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.
SKIN: Remove contaminated clothing. Flush skin with water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.
INGESTION: Call a physician immediately for treatment advice. Do not induce vomiting. Do not give anything by mouth to an unconscious person.
INHALATION: In case of respiratory irritation or dizziness, move person to fresh air. Get medical attention if irritation persists.

SECTION IX: PREPARATION INFORMATION

BIORENEWABLES INDUSTRIAL DEGREASER
DATE OF PREPARATION: May 1, 2016
SUPERCEDES: June 1, 2013
PREPARED BY: Ronald T. Cook / Manager, Regulatory Affairs / Spartan Chemical Company, Inc.
TELEPHONE NUMBER: 800/537-8990