



# Spartan Chemical Company, Inc.

## Material Safety Data Sheet

### SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):

**BIORENEWABLES INDUSTRIAL DEGREASER**

Product Number: 2310

Product Division:

**Janitorial**

**Spartan Chemical Company, Inc.**

**1110 Spartan Drive**

**Maumee OH 43537**

Product/Technical  
Information: **1-(800)-537-8990**

Medical Emergency: **1-(888)-314-6171 (24 hours)**

Chemical Leak/Spill  
Emergency: **CHEMTREC 1-(800) 424-9300 (24 hours)**

|                       |                                    |
|-----------------------|------------------------------------|
| Shipping Description: | Cleaning compounds, liquid, n.o.s. |
|-----------------------|------------------------------------|

|                      |              |                            |                  |
|----------------------|--------------|----------------------------|------------------|
| <b>NFPA Ratings:</b> |              | <b>HMIS Ratings:</b>       |                  |
| <b>Health:</b>       | 2 - Moderate | <b>Health:</b>             | 2 - Moderate     |
| <b>Fire:</b>         | 2 - Moderate | <b>Fire:</b>               | 2 - Moderate     |
| <b>Reactivity:</b>   | 0 - Minimal  | <b>Reactivity:</b>         | 0 - Minimal      |
|                      |              | <b>Pers. Prot. Equip.:</b> | See Section VIII |

### SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

| Chemical Name(s)          | % W   | CAS Registry No. | Table Z- 1 - A        |                        |                           | NTP, IARC or OSHA Carcinogen |
|---------------------------|-------|------------------|-----------------------|------------------------|---------------------------|------------------------------|
|                           |       |                  | TWA mg/m <sup>3</sup> | STEL mg/m <sup>3</sup> | CEILING mg/m <sup>3</sup> |                              |
| Soybean oil methyl esters | 50-60 | 67784-80-9       | Not Established       | Not Established        | Not Established           | No                           |
| Petroleum distillate      | 25-35 | 64742-47-8       | 1200 (Exxon)          | Not Established        | Not Established           | No                           |
| Alcohol ethoxylate        | 5-10  | 34398-01-1       | Not Established       | Not Established        | Not Established           | No                           |
| Distilled tall oil        | 1-5   | 8002-26-4        | 5 (oil mist)          | Not Established        | Not Established           | No                           |
| d-limonene                | 1-5   | 5989-27-5        | Not Established       | Not Established        | Not Established           | No                           |

## ▼ SECTION III: PHYSICAL DATA

|                                |                                      |  |              |
|--------------------------------|--------------------------------------|--|--------------|
| Boiling Point:                 | > 400 °F                             | Vapor Pressure:                        | Unknown      |
| Vapor Density (AIR = 1):       | Unknown                              | Solubility in Water:                   | Emulsifiable |
| pH:                            | NA                                   | Specific Gravity (H <sub>2</sub> O=1): | 0.862        |
| Evaporation Rate (but.ace.=1): | <1                                   | Percent Solid by Weight:               | 10-15        |
| Physical State:                | Liquid                               |  |              |
| Appearance & Odor:             | Pale yellow liquid, mild citrus odor |  |              |

## ▼ SECTION IV: FIRE &amp; EXPLOSIVE HAZARD DATA

|                                   |  |                  |          |
|-----------------------------------|--|------------------|----------|
| Flash Point:                      | 179°F  | Method Used:     | ASTM-D56 |
| Flammable Limits:                 | Not Established  | Flame Extension: | N/A      |
| Extinguishing Media:              | Water, carbon dioxide or dry chemical.   |                  |          |
| Special Fire Fighting Procedures: | Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray. |                  |          |
| Unusual Fire & Explosive Hazards: | Combustible liquid and vapor. Keep away from heat, sparks or flame. Combustion products are toxic.                             |                  |          |

## ▼ SECTION V: HEALTH HAZARD DATA

|  |   |                          |                                       |
|--|---|--------------------------|---------------------------------------|
| Threshold Limit Value:                           | Not Established   | Primary Routes of Entry: | Inhalation, Skin Contact, Eyes & Oral |
| Effects of Overexposure-<br>Conditions to Avoid: | <p><b>Harmful or fatal if swallowed:</b> Symptoms include pain, nausea, vomiting and diarrhea. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.</p> <p><b>Causes eye irritation:</b> Symptoms may include pain, redness and swelling of the conjunctiva.</p> <p><b>Causes skin irritation:</b> Symptoms may include redness, pain and swelling.</p> <p><b>Breathing product vapors or mist may cause respiratory irritation:</b> Symptoms may include nasal discomfort and coughing.</p> <p>Contains d-limonene and tall oil which may cause skin sensitization with repeated contact.</p> <p><b>Avoid contact with eyes, skin and clothing. Avoid breathing product vapors or mists. Do not swallow. Use with adequate ventilation. Wash thoroughly after handling.</b></p> |                          |                                       |
| Conditions Aggravated by Use:                    | Use of this product may aggravate preexisting skin; eye and respiratory disorders including asthma and dermatitis.  |                          |                                       |

## Emergency &amp; First Aid Procedures:

|             |   |
|-------------|---|
| Eyes:       | Flush eyes with plenty of 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 physician immediately for treatment advice. Do not induce vomiting. Do not give anything by mouth to an unconscious person.                                    |
| Inhalation: | Move person to fresh air. Get medical attention if irritation persists.   |

▼ **SECTION VI: REACTIVITY DATA**

|                                   |                                 |                           |                                   |
|-----------------------------------|---------------------------------|---------------------------|-----------------------------------|
| Stability:                        | Stable                          | Incompatible Materials:   | Strong acids and oxidizing agents |
| Hazardous Decomposition Products: | Carbon dioxide, carbon monoxide | Hazardous Polymerization: | Will Not Occur                    |

▼ **SECTION VII: SPILL OR LEAK PROCEDURES**

|  |   |
|--|---|
| Steps to be Taken in Case Material is Released or Spilled: | Dike and contain spill 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:                                     | Dispose of in compliance with all federal, state and local laws and regulations.  |

▼ **SECTION VIII: SPECIAL PROTECTION INFORMATION**

|                                  |  |
|----------------------------------|--|
| Respiratory Protection:          | Not normally required when good general ventilation is provided. However if exposure limits are exceeded (see Section II) or if respiratory irritation occurs, the use of a NIOSH approved respirator suitable for the use-conditions and chemicals listed in Section II should be considered. |
| Ventilation:                     | Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.  |
| Protective Gloves(Specify Type): | Rubber or other impervious gloves.   |
| Eye Protection(Specify Type):    | Splash goggles are recommended to prevent eye contact.   |
| Other Protective Equipment:      | See 29 CFR 1910.132-138 for further guidance.  |

▼ **SECTION IX: SPECIAL PRECAUTIONS**

|                                  |   |
|----------------------------------|---|
| Precautions; Handling & Storing: | Combustible liquid and vapors. Flash Point 179°F . Keep container tightly closed. Store in a cool, dry area. Do not freeze. Do not store above 120°F. Do not mix with other chemicals.  |
| Other Precautions:               | 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. Keep out of reach of children. |

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BIORENEWABLES INDUSTRIAL  
DEGREASER

Name: Ronald T. Cook

Effective 11/20/2006

Date:

Title: Manager, Regulatory Affairs

Supercedes: 11/30/2005

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