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## INDUSTRIAL DEGREASER

**A Soybean Solvent Based Industrial Degreaser with Citrus Power**

### PRODUCT DESCRIPTION

BioRenewables Industrial Degreaser is a water-rinsable, industrial strength degreaser designed to be used in concentrated form. Formulated with new soybean oil technology and boosted with d-limonene, this degreaser tackles the toughest tasks. A user-friendly product with a translucent pale yellow color and a pleasant hint of orange fragrance.

### Soy Powered

Soybeans are a renewable resource used in a variety of products, including industrial cleaners. To be used in this application, soybeans are crushed and the oil is extracted from the bean. Soybean oil, in its raw form, is then processed to make methyl soyate, a powerful solvent. Methyl soyate is a safer alternative to many solvents commonly found in industrial cleaners. Spartan incorporated this safer technology into BioRenewables Industrial Degreaser.

### Biobased Formula Seal

BioRenewables Industrial Degreaser is certified by a third party to contain 53% biobased material. The testing was performed by an outside, USDA approved, laboratory to insure the biobased content of BioRenewables Industrial Degreaser. The biobased seal, found on product labels and literature, allows end users to easily identify the biobased content in each BioRenewables product. This seal guarantees the percentage of ingredients that are made from renewable resources.

### 100% Active

All of BioRenewables Industrial Degreaser's ingredients are active parts of its cleaning and degreasing ability. Void of any inactive ingredients, BioRenewables Industrial Degreaser works in many medium to heavy duty cleaning tasks.

### BioRenewables Industrial Degreaser will effectively remove:

- Grease
- Dirt
- Cosmoline
- Tar
- Many Inks

- Most Adhesives
- Industrial Oil

### Safe to use on:

- Ferrous & Non Ferrous Metal
- Concrete
- Ceramic Tile & Brick

## BIORENEWABLES INDUSTRIAL DEGREASER INFORMATIVE BULLETIN

When a painted surface is encountered, test a small, inconspicuous area for peeling. BioRenewables Industrial Degreaser is not recommended for use on floors coated with a floor finish, but is safe to use on floors with cured epoxies and urethanes.

### Lower VOC'S

Soybean oil solvents produce little harmful emissions or VOC's (volatile organic compounds). By including a soybean solvent into BioRenewables Industrial Degreaser, the VOC profile is reduced and complies with strict, new VOC restrictions.

### A Natural Choice

BioRenewables Industrial Degreaser also includes a boost of natural d-limonene for added cleaning power and a natural orange fragrance. No over-powering fragrances make this product pleasant to use.

### Easy To Use

BioRenewables Industrial Degreaser was formulated to be used full-strength, no diluting required. The ready to use nature of this formula eliminates mixing, employee confusion and non-accurate dilutions.

### DIRECTIONS FOR USE

Some individuals may be sensitive to ingredients in this product. Before use, read product label and Material Safety Data Sheet. If questions remain, consult your employer or a physician.

**General Cleaning & Degreasing:** Spray, brush, sponge or mop BioRenewables Industrial Degreaser onto the soiled surface. Allow sufficient contact time to insure solvent penetration. Wipe, pick up and rinse thoroughly. **Note:** Product will dull floor seals, finishes and some types of protective coatings. Do not use to degrease concrete floors prior to resurfacing.

**Engines & Machinery:** Spray, brush or sponge BioRenewables Industrial Degreaser on the soiled surface. Apply product when engines or machinery are warm. Allow sufficient contact time to insure solvent penetration, extreme build-up may require more penetration time or a second application. Rinse with hose, pressure washer or steam equipment. Use a brush in the absence of pressure equipment. Rinse with hot water.

**Cold Dip Tank & Parts Washing:** Immerse engine and machinery parts in BioRenewables Industrial Degreaser. Allow sufficient contact time to insure solvent penetration. Rinse clean with water. To avoid rust after rinsing, spray with Spartan Lube-All.

### SPECIFICATION DATA

Total Active Ingredients – 100%

Specific Gravity – 0.832 @ 24°C/75°F

Density – 6.92 lbs /gal

Viscosity – Water thin

pH – N/A

Flash Point (Tag Closed Cup) - 82 °C/179°F

Stability –

- a. Shelf @ 24°C/75°F -- One year min
- b. Accelerated @ 49°C/120°F -- 60 days min.
- c. Freeze/Thaw -- Will withstand a minimum of one cycle.

Miscibility – Forms an emulsion in hot & cold water; emulsifies water, insoluble solvents and oils.

## BIORENEWABLES INDUSTRIAL DEGREASER INFORMATIVE BULLETIN

Rinsability – Rinse completely with hot or cold water and leaves no film  
Phosphate Free

**WARNING: Combustible liquid and vapors.** Flash Point 179°F/ 82°C. Harmful or fatal if swallowed. Causes eye and skin irritation. Breathing vapors or mist may cause respiratory irritation. Contains d-limonene and tall oil which may cause skin sensitization with repeated contact.

### STORAGE

**Do not store BioRenewables Industrial Degreaser above 120°F/49°C. Product will expand and may cause drum to swell and possibly rupture. In case of drum expansion, carefully vent drum through small bung. All handling equipment should be electrically grounded.**

**NOTE:** When dispensing product from drum or pail, pump with corrosion-resistant metal pump with solvent-resistant seals and dip tubes, or rack with solvent-resistant faucet.

### DISPOSAL

There may be some restrictions concerning the disposal of all d-limonene products. Consult with local, federal and state authorities prior to disposal of any d-limonene containing product into the sanitary sewer system.

### PACKAGING

BioRenewables Industrial Degreaser is available in lined steel 55-gallon drums and 5-gallon pails. Label copy is provided in English and Spanish. Secondary labels are also available.

### Guarantee:

Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture. Use product as directed and read all precautionary statements.

Some materials may require special handling or application. Please refer to the appropriate Material Safety Data Sheet and label.

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# 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.

NFPA Ratings:	HMIS Ratings:
Health: 2 - Moderate Fire: 2 - Moderate Reactivity: 0 - Minimal	Health: 2 - Moderate Fire: 2 - Moderate Reactivity: 0 - Minimal Pers. Prot. Equip.: 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)	%Wt	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 & 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- Conditions to Avoid:	<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. <b>Causes eye irritation:</b> Symptoms may include pain, redness and swelling of the conjunctiva. <b>Causes skin irritation:</b> Symptoms may include redness, pain and swelling. <b>Breathing product vapors or mist may cause respiratory irritation:</b> Symptoms may include nasal discomfort and coughing. Contains d-limonene and tall oil which may cause skin sensitization with repeated contact. <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>
Conditions Aggravated by Use:	Use of this product may aggravate preexisting skin; eye and respiratory disorders including asthma and dermatitis.
Emergency & 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.

NOTE TO PHYSICIAN: Contains petroleum distillates. Aspiration hazard.

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.

© SCC 11/20/2006	Name: Ronald T. Cook	Title: Manager, Regulatory Affairs
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