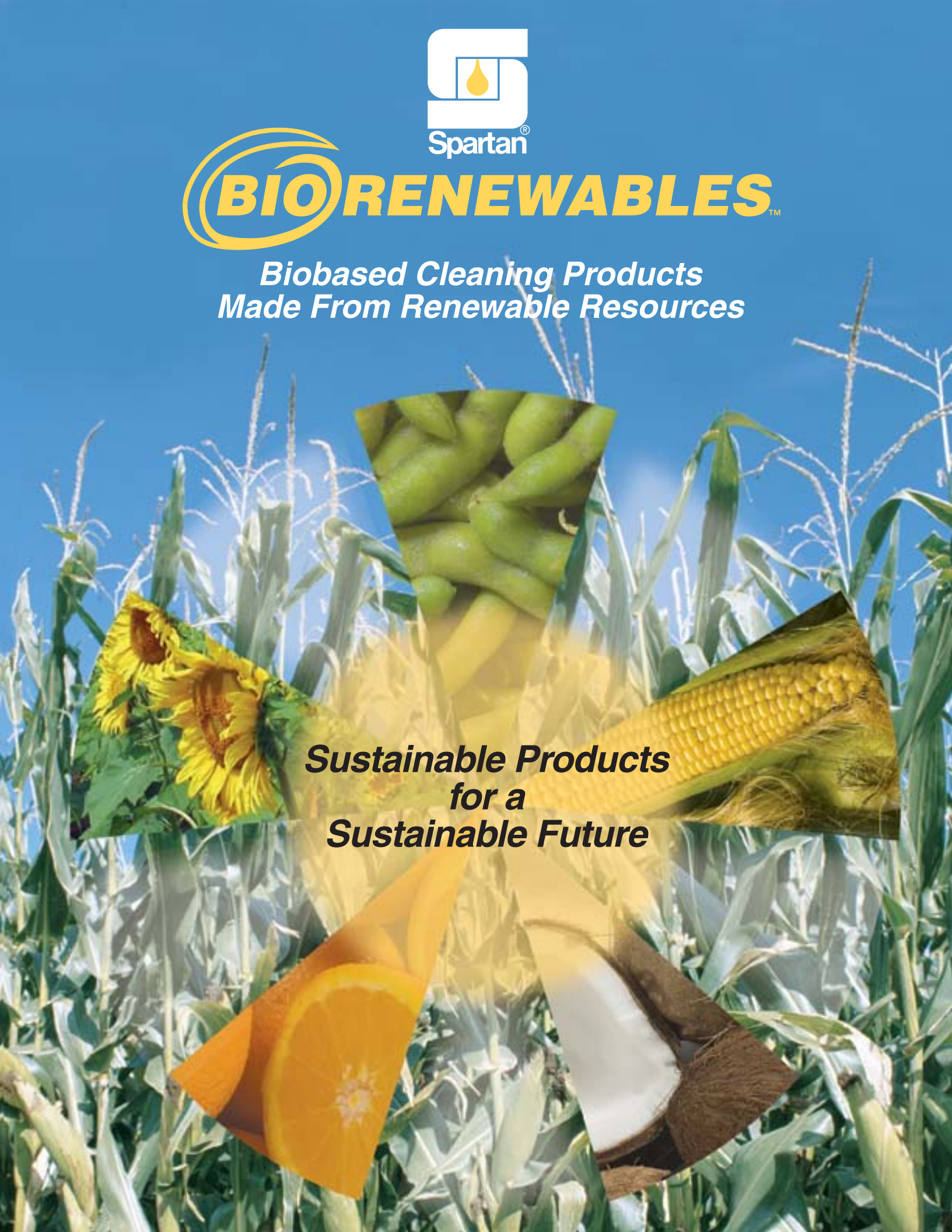




BIORENEWABLES™

*Biobased Cleaning Products
Made From Renewable Resources*

***Sustainable Products
for a
Sustainable Future***





Sustainable Products for a Sustainable Future

MISSION STATEMENT: TO PROVIDE A LINE OF BIOBASED PRODUCTS THAT PROMOTES OUR RENEWABLE RESOURCES AND CONTRIBUTES TO ENVIRONMENTAL IMPROVEMENT



What are Biobased Products?

According to the Farm Security and Rural Investment Act (FSRIA) a biobased product is a product determined by the US Secretary of Agriculture to be a commercial or industrial product (other than food or feed) that is composed, in whole or in significant part, of biological products or renewable domestic agricultural materials (including plant, animal, and marine materials) or forestry materials. In general a biobased product is formulated with domestic products from renewable plant and animal resources. Biobased products are thought to be excellent alternatives to products made from petroleum because they...

- ... are domestically produced and support the U.S. economy,
- ... help to reduce our country's dependency on foreign energy,
- ... are generally better for the environment to produce and use,
- ... support our farmers and rural communities.

Certified Biobased Content



All of Spartan's BioRenewables products are certified by a third party to contain biobased material. Due to the vast array of biobased ingredients Spartan created this seal to easily identify the portion of each product made from renewable resources. Each product is adorned with a seal to create a measuring tool consistent over a broad range of products, quickly identify those products that contain biobased materials, and provide a seal of assurance to the consumer.

Why is Spartan developing Biobased Products?

The biobased market is being driven by several policy changes that have occurred over the past few years. The key policies are summarized below:

Office of the Federal Environmental Executive (OFEE):

Promoting Sustainable environmental stewardship throughout the federal government.

Executive Order 13101: "Greening the Government through Waste Prevention, Recycling and Federal Acquisition." Occurring on September 14, 1998, this was the first policy to define the term "biobased products." They defined them as "...a commercial or industrial product (other than food or feed) that utilizes biological products or renewable domestic agricultural (plant, animal, and marine) or forestry materials."

USDA Farm Bill Section 9002: This law requires Federal agencies to purchase biobased products, unless there is a price, performance or availability reason not to.

USDA Biobased Products and Bioenergy Coordination Council (BBCC):

The BBCC was established in 1995 by the Secretary of Agriculture to coordinate, facilitate and promote research, development, commercialization and marketing of biobased products.

These important policies helped form Spartan's decision to create the new line of BioRenewables. As the guidelines move forward we believe biobased products will be a large part of the Jan/San industry.

What are the Benefits of choosing Biobased?

BioRenewables are made with ingredients that are derived from domestic agricultural and forestry materials. Whether it's a soy based solvent, vegetable derived detergent or cleaning agent made from coconut oil, each ingredient comes from a renewable resource. This means that the raw components Spartan is using are constantly being grown, produced and manufactured into solvents, detergents, etc. These renewable items provide products that are environmentally safer, increase rural economic development, foster domestic production of our resources and reduce US dependency on imported products.

The scope of biobased product applications is constantly growing, with more areas being defined and realized all the time. With several different products, Spartan offers solutions to a wide array of janitorial needs. These products can be used in any public or private facility in place of petroleum based products. Their performance parallels or exceeds their petroleum based counterparts, while offering the benefits biobased products exhibit.

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MULTI PURPOSE CLEANER

TriBase Multi Purpose Cleaner is a 72% biobased product formulated to clean a multitude of soils on a variety of surfaces. With three main biobased materials, TriBase Multi Purpose Cleaner is a non-VOC, less toxic, biodegradable product. The three main surfactant ingredients were derived from corn, coconut, and palm kernel, each supporting a different area of agriculture. This Multi Purpose Cleaner is golden yellow in color and has a natural citrus fragrance.

Flexible

TriBase can be used to clean a variety of soils found on many surface types. This multi purpose cleaner works on glass, mirrors, floors, walls, restroom and kitchen surfaces, and tile; almost any surface not harmed by water. This product was formulated to handle everyday cleaning tasks, as well as heavier-duty challenges. Apply with a mop, brush, pressure washer, auto scrubber or use a spray and wipe application.

DIRECTIONS FOR USE:

Note: Cold water recommended for dilution.

Dispensing from the Clean on the Go 2-Liter System:

For heavier soils, a higher concentrate of product may be required. Use additional metering tips provided with dispenser to obtain the desired dilution. Cold water is recommended for dilution.

Light-Duty Cleaning

Dilute at 1:128 to 1:40 (1 oz. to 3 oz. per gal.) or (4 ml to 8 ml per liter) for everyday light-duty cleaning. Spray surface and wipe with sponge, mop or other cleaning cloth.

Glass Cleaning

Dilute at 1:256 to 1:128 (1/2 oz. to 1 oz. per gal.) or (8 ml to 23 ml per liter) for glass cleaning. Spray surface and wipe dry with a clean cloth or paper towel. Turn cloth frequently so clean side is always in use.

Medium to Heavy-Duty Cleaning/Degreasing

Dilute at 1:32 to 1:10 (4 oz. to 12 oz. per gal.) or (31 ml to 94 ml per liter) of water. Spray surface and wipe with sponge, mop or other cleaning cloth.

Floor Cleaning Using Mop and Bucket/Auto Scrubber

For daily damp mopping, dilute 1:128 to 1:32 (1 oz. to 4 oz. per gal.) or (8 ml to 31 ml per liter). Fill bucket or auto scrubber. Mop and/or scrub with auto scrubber with TriBase Multi Surface Cleaner. Pick up soil and excess cleaner with clean mop. Rinse mop frequently and change solution as needed.

SPECIFICATION DATA:

Specific Gravity – 1.005 @ 24°C/75°F
Density – 8.36 lbs./gal.

pH – 8.0-9.0

Flash Point – None

Color – Golden yellow

Stability –

- Shelf @ 24°C/75°F – One year minimum
- Accelerated @ 49°C/120°F – 30 days minimum
- Freeze/Thaw – Will withstand 3 cycles

Phosphate Free

Biodegradable

VOC Compliant

PACKAGING:

TriBase Multi Purpose Cleaner is packaged in HDPE (High Density Polyethylene) 55, 30 and 15-gallon drums; 5-gallon pails; and gallons, four per case. Also available in Clean on the Go® 2-liters, four per case, featuring a trilingual (English, Spanish and French) label and shipped with an MSD sheet in each case. Standard label copy is available in English, Spanish and French text. Ready- to-use Solution labels are also available.



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GLASS CLEANER

BioRenewables Glass Cleaner is an 81% biobased product designed to clean mirrors, glass, and Plexiglas® surfaces. BioRenewables Glass Cleaner incorporates a state-of-the-art surfactant system offering excellent surfactant/wetting agents with emulsification abilities through the use of more readily biodegradable alternative surfactant chemistries. BioRenewables Glass Cleaner is light blue in color and has a clean, crisp waterfall fragrance.

Versatile and Easy to Use

BioRenewables Glass Cleaner may be used to clean and polish any hard surface not harmed by water such as: window glass, panes and sills; mirrors, countertops, chrome, automobile glass, fluorescent lights and tubing, and any other glass or mirror finish.

BioRenewables Glass Cleaner removes tough soils such as: grease, smoke, oils, tape residue, food stains, dust, and dirt. Once diluted, BioRenewables Glass Cleaner is easy to use; simply spray on and wipe off.

Safe and Pleasant to Use

BioRenewables Glass Cleaner is nonflammable and compliant with the accepted levels of Volatile Organic Compounds (VOCs). The formula is fragranced with a clean, crisp waterfall scent and is light blue in color.

DIRECTIONS FOR USE:

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

STANDARD PACKAGING:

General Glass and Hard Surface Cleaning

Dilute BioRenewables Glass Cleaner at 1:64 [2 oz. per gallon] or [15 ml per liter] of water. Use a BioRenewables Glass Cleaner spray bottle for dispensing. Hold the bottle 8 to 10 inches away from surface. Spray in an even pattern. Wipe dry with a clean, lint-free cloth or paper towel. Turn cloth or towel frequently so clean side is always in use.

Large Areas

Fill bucket and dilute at 1:64 [2 oz. per gallon] or [15 ml per liter] of water. Apply with a window brush or other glass cleaner applicator. Squeegee dry.

2-Liter Cartridge: General Glass and Hard Surface Cleaning

Fill spray bottle from a Clean on the Go Dispenser. Spray surface and wipe dry with a clean, lint-free cloth or paper towel. Turn cloth or towel frequently, always using the clean side of the towel.

Large Areas

Fill bucket from a Clean on the Go Dispenser. Apply with a window brush or other glass cleaner applicator. Squeegee dry.

Note: For energy savings, cold water is recommended for dilution. DO NOT USE ON WOOD FURNITURE OR OTHER POLISHED SURFACES.

SPECIFICATION DATA:

Specific Gravity – 1.01 @ 24°C/75°F

Density – 8.39 lbs./gal.

Viscosity – Water thin

pH – 7.5 – 8.5

Solvents - None

Flash Point - None

Stability –

- Shelf – One year minimum @ 24°C/75°F
- Accelerated – 30 days minimum @ 49°C/120°F
- Freeze/Thaw – Can withstand 3 freeze/thaw cycles

Phosphate Free
Biodegradable
VOC Compliant

PACKAGING:

BioRenewables Glass Cleaner is packaged in the 275-gallon reusable tote; HDPE (High Density Polyethylene) 55, 30, and 15-gallon drums; 5-gallon pails; gallons, four per case and 2-liters, four per case. 2-liter containers feature English, Spanish and French languages and are shipped with MSDS in each case. Standard label copy is available in both English and Spanish. Ready-to-use labels are also available.



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RESTROOM CLEANER

BioRenewables Restroom Cleaner is an 83% biobased product designed to clean toilets, urinals, and shower rooms. BioRenewables Restroom Cleaner contains 8% citric acid, derived from a renewable resource. Citric acid provides efficient cleaning action that quickly removes soap scum, water spots and light rust from toilet bowls, urinals and similar hard, non-porous bathroom surfaces. This restroom cleaner features a cool citrus floral fragrance and a blue color.

An All-in-One Product

BioRenewables Restroom Cleaner is a ready-to-use product that addresses the cleaning and maintenance needs of busy, high traffic restrooms. BioRenewables Restroom Cleaner cleans easily with no mixing, no waste and no chemical spills. Minimal custodial training time is all that is needed. BioRenewables Restroom Cleaner is an economical choice because of its ease of use and the multiple tasks it can handle.

DIRECTIONS FOR USE:

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

Toilet Bowls and Urinals

Apply 1-2 oz. evenly onto surface to be cleaned. Swab entire surface area, especially under the rim where water outlets are located. Flush toilet several times and rinse applicator thoroughly.

Shower Rooms (Floors, Walls), Porcelain, Ceramic, Fiberglass and Similar Hard, Non-Porous Surfaces

Apply evenly onto surface to be cleaned. Use a coarse spray. DO NOT MIST. Agitate lightly with sponge, brush or swab mop. Extremely heavy soils may require extended contact time. Rinse thoroughly.

General, Light-Duty Restroom Cleaning

Dilute 1:10 (12 oz./gal. of water) for general purpose cleaning of hard non-porous bathroom surfaces.

NOTE: DO NOT USE ON NON-ACID RESISTANT SURFACES. THIS PRODUCT WILL ETCH OR OTHERWISE DAMAGE MARBLE AND OTHER NON-ACID RESISTANT SURFACES. DO NOT MIX WITH BLEACH, CHLORINATED DETERGENTS OR OTHER CHEMICALS AS TOXIC OR IRRITATING FUMES MAY BE RELEASED.

SPECIFICATION DATA:

Specific Gravity – 1.03 @ 24°C/75°F
Density – 8.57 lbs./gal./@ 24°C/75°F
pH – 1.5 – 2.5
Viscosity – >200 cps
Color – Clear liquid
Stability –
a. Shelf @24°C/75°F – 1 year
b. Accelerated @ 38°C/100°F – 3 months
c. Freeze/Thaw – 3 cycles
VOC Compliant

PACKAGING:

BioRenewables Restroom Cleaner is available in attractively labeled carafe style quart bottles, 12 per case. Each quart is equipped with a flip-top dispensing cap. Each case includes a pair of gloves and one foam trigger sprayer. Label copy is available in both English and Spanish. Secondary labels are also available.



Graffiti Remover SAC

Graffiti Remover SAC is a ready-to-use, 53% biobased product. A combination of soybean and corn esters, this efficient solvent blend helps to replace hazardous, toxic and environmentally harmful products in the workplace. Graffiti Remover SAC has a non-offensive odor.

Versatile and Effective

Graffiti Remover SAC removes the typical graffiti markings and also takes away scuff marks, wax residue and adhesive with ease. Safe to use on glazed tile, stainless steel, fiberglass, metal, marble, chrome, aluminum, brass, glass, Formica®, Lexan®, and porcelain.

DIRECTIONS FOR USE:

Some individuals may be sensitive to ingredients in this product. Before using, read product label and MSD sheet. If questions remain, consult your employer or a physician.

NOT INTENDED FOR USE ON PAINTED SURFACES.

1. Spray Graffiti Remover SAC evenly onto surface to be cleaned.
2. Let product penetrate soil for 2-5 minutes. Agitate with a sponge, brush or cloth. Difficult marks may require extra contact time or repeat applications.
3. If necessary, rinse thoroughly.

SPECIFICATION DATA:

Specific Gravity – 0.834 @ 24°C/75°F
Density – 6.94 lbs./gal.
pH – n/a
Flash Point (Tag Closed Cup) – 64°C/174°F
Viscosity – Water thin
Color – Translucent yellow
Stability –
a. Shelf @ 24°C/75°F – One year minimum
b. Accelerated @ 49°C/120°F – 60 days minimum
c. Freeze/Thaw – Will withstand a minimum of one cycle
Phosphate Free, Biodegradable
VOC Compliant

PACKAGING:

Graffiti Remover is packaged in PET Resin RTU quart bottles, 12 per case. Each package includes 3 Solvent Resistant Trigger Sprayers. Also available in gallons, 4 per case. Standard label copy is available in English, Spanish and French. Secondary labels are also available.



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INDUSTRIAL DEGREASER

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. BioRenewables Industrial Degreaser's formula contains 53% biobased material, maintaining its degreasing strength while utilizing renewable resources. A user-friendly product with a translucent pale yellow color and a pleasant hint of orange fragrance.

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

DIRECTIONS FOR USE:

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 minimum
- b. Accelerated @ 49°C/120°F – 60 days minimum
- c. Freeze/Thaw – Will withstand a minimum of one cycle

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

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

Phosphate Free
VOC Compliant

PACKAGING:

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

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Lite'n Foamy™



SUNFLOWER FRESH

Lite'n Foamy Sunflower Fresh is a BioRenewables foaming hand, hair and body wash, formulated with 85% biobased ingredients made from renewable resources. This designer type foaming product is designed to be used with Spartan's Lite'n Foamy Dispenser. Sunflower Fresh is pale yellow in color and has a refreshing sunflower fragrance.

Excellent Lather

The biobased raw materials used in Lite'n Foamy Sunflower Fresh produce a luxurious foam that leaves the skin clean and soft after each use. This cutting-edge formulation contains naturally derived actives to form an excellent lather to clean daily soils found on the skin and hair.

Moisturizing & Pleasant to Use

Lite'n Foamy Sunflower Fresh contains Aloe Vera to prevent the skin from drying out. All the ingredients in Sunflower Fresh are safe to the skin and will not contribute to flaking and itching. The rich emollients and refreshing sunflower fragrance create a product that is pleasant to use.

DIRECTIONS FOR USE:

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

USE ONLY WITH FOAM SOAP DISPENSERS

Hand Cleaning

Dispense small amount of product into wet palms. Lather and rinse hands with clean water.

Hair & Body Shampoo

Apply directly to wet skin, damp cloth, mesh sponge or loofah. Shampoo hair and skin. Rinse thoroughly.



SPECIFICATION DATA:

- pH (concentrate) – 5.5 – 6.5
- Specific Gravity – 1.005
- Viscosity – Water thin
- Color – Pale yellow
- Stability –
 - a. Shelf @ 24°C/75°F – One year minimum
 - b. Accelerated @ 49°C/120°F – 60 days minimum
 - c. Freeze/Thaw – Can withstand 3 cycles

Biodegradable
Phosphate Free

PACKAGING:

Lite'n Foamy Hand Care Products are available in recyclable HDPE (high density polyethylene) 55-gallon drums, 5-gallon pails, and gallons, 4 per case. Label copy is provided in English and Spanish.

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WATERLESS HAND CLEANERS

BioRenewables Waterless Hand Cleaner and BioRenewables Waterless Plus are formulated with a soybean solvent base to remove heavy-duty soils safely and easily. Both waterless hand cleaners are produced with 80% biobased material made from renewable resources. To enhance the performance, both formulas also contain a blend of surfactants to emulsify the soil.

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 Use

Apply a small amount of Spartan's BioRenewables Waterless Hand Cleaner or BioRenewables Waterless Plus to dry hands. Rub hands together. Wipe hands with a paper towel or clean cloth or rinse with water and dry.

Dispenser Directions

Remove lid from plastic container. Invert container and place open end on dispenser. Carefully puncture vent hole on bottom of the container. Pump dispenser until product dispenses.

SPECIFICATION DATA:

- pH – 7-8
- Specific Gravity – 0.99
- Viscosity - >700,000 cps @ 72°F/20°C
- Color – White (BioRenewables Waterless Hand Cleaner),
Green (BioRenewables Waterless Plus)
- Flash Point – None
- Stability
 - a. Shelf @ 75°F/24°C – One year minimum
 - b. Accelerated @ 120°F/49°C – 60 days minimum
 - c. Freeze/Thaw – Can withstand 3 cycles

Phosphate Free
VOC Compliant

PACKAGING:

BioRenewables Waterless Hand Cleaner and BioRenewables Waterless Plus are available in recyclable HDPE (high density polyethylene) 4 1/2 lb. tubs, 6 per case. Label copy is provided in English, Spanish and French.





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Be sure to read all Directions, Precautionary and First Aid Statements on product labels before use of these or any Spartan product. If questions remain, consult your employer or a physician. Material Safety Data Sheets for all Spartan products are available from your authorized Spartan Distributor or by visiting www.spartanchemical.com.

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.

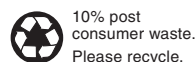
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