

Worldwide Leader In Advanced Cleaning Systems



Daimer's All-About Guide to Green Chemicals

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Overview of Green Chemicals

The Need

More than 80,000 chemicals, most of them harmful, are used in common cleaning solutions. Many products promoted as "green" contain potentially dangerous ingredients. Other products don't work very well. As local, state and federal officials legislate the use of environmentally-safe products, cleaning professionals are facing a confusing marketplace for cleaning formulations.

Daimer Industries® has come to the aid of cleaning professionals with Eco-Green®, a line of environmentally-friendly, non-toxic and, most importantly, effective formulations.

The Eco-Green® Product Line

Daimer®'s Eco-Green® line of green chemicals includes more than 100 products and formulations. The green chemicals range from general-purpose products, such as degreasers, concrete cleaners, to specialty formulations like HVAC coil cleaners, car wash and oil-spill chemicals. Eco-Green® also offers green chemicals for more than 40 different industries, including: automotive, food and beverage manufacturing, chemical processing, construction, farming, healthcare, hospitality, landscaping, janitorial, veterinary, metal fabrication, marine, energy, petrochemical processing, printing, steel, and waste management.

Derived from plants and vegetables without any ozone-depleting substances, synthetics or harmful volatile organic compounds (VOCs), Eco-Green® products are readily biodegradable. The green chemicals biodegrade by more than 90% within 28 days, or about 50% faster than most competitors, according to testing performed by an internationally known laboratory. The products are also safe to use and clean with a high level of safety as evidenced by all zero values on the National Fire Protection Association (NFPA) hazard diamond.

The Technology

The Eco-Green® line employs Daimer®'s unique Micro-Blasting® technology, which uses nano-based particles, 1/80,000 the thickness of human hair, to penetrate unwanted substances and pierce the carbon bonds holding dirt and stains together. As a result, the particles are easy to remove and less likely to re-adhere to cleaned surfaces. This technology has a myriad uses and is used in Eco-Green®'s non-cleaning products for pest control, and protecting carpets, concrete and other surfaces. *Learn more at - <http://www.daimer.com/eco-green-new-green-chemical-technologies/>*

For More Information

Industrial and commercial users of cleaning chemicals that would like to reduce the costs associated with hazardous material disposal, the regulatory compliance associated with certain "traditional" cleaning products and the liability associated with the use of toxic/harmful substances can learn more about Eco-Green® green chemicals online at <http://www.daimer.com>. Questions and requests for additional information about green cleaners can be directed to Matthew Baratta by calling (888) 507-2220.

Expert Buying Advice

What to Look for when Shopping for Green Formulations

Ingredients:

For safety and green compliance, obtain a list of the contents. High-quality products should have a Material Safety Data Sheet (MSDS) listing the ingredients. The Occupational Safety & Health Administration (OSHA) also lists chemicals it deems harmful.

Harmful chemicals found in certain cleaning preparations include: volatile organic compounds (VOCs), chlorine, benzene, triclosan, nonylphenol and nonylphenol ethoxylates, alkylphenolethoxylates (APEs), synthetics, terpenes, petroleum distillates, glycol ethers, caustics, builders and reagents.

Some products, such as Daimer Industries®'s Eco-Green® line, are derived from plants and vegetables without any ozone-depleting substances, synthetics or Harmful VOCs. *Read more at <http://www.daimer.com/eco-green-chemicals/>.*

Biodegradability:

Look for readily biodegradable green products to indicate that the formulas biodegrade by more than 90% within 28 days. The products in the Eco-Green® line degrade about 50% faster than most competitors, according to testing performed by an internationally known laboratory.

Safety:

Opt for products that display all zero values on the National Fire Protection Association (NFPA) hazard diamond. The diamond ranks products by safety in categories, such as toxicity, flammability, and reactivity with other chemicals. Zero values indicate the highest level of safety.

Effectiveness:

Cleaning without harmful formulations requires a different chemical approach. Some products use a nano-technology that employs tiny particles, 1/80,000 the thickness of human hair. The small size allows the nano-molecules to pierce the carbon bonds of dirt, stains and buildup. This action breaks unwanted substances into billions of particles that disperse in water and repel one another. As a result, the particles are easy to remove and less likely to re-adhere to cleaned surfaces.

Daimer®'s Eco-Green® uses a patented Micro-Blasting® technology. Many of the products, such as Carpet Care and Tile and Grout Cleaner, can be applied by hand or with cleaning equipment.

Breadth and Depth of Product Line:

Purchasing different products from different vendors is always a headache and usually costs more in the end. Cleaning professionals should consider companies that offer products ranging from general cleaning solutions, such as all-purpose metal cleaners to specialized formulations, such HVAC coil cleaners.

Eco-Green® offers more than 100 products that target an array of industries, including: hospitality, landscaping, car detailing, oil and gas engineering, manufacturing, commercial and industrial cleaning, and more.

Product Spotlights

Green Chemicals for Concrete and Stone:

- 1) Eco-Green® Concrete Cleaner with Rust Stain Remover is a fast-acting, all-natural, 100% plant-based, concrete cleaning, formula designed for industrial strength stains. The formulation removes rust stains, dirt, grease, grime, oil, mildew, algae and a variety of other substances from common concrete surfaces, including: sidewalks, driveways, parking lots, garages, basements, pavers, brick and other masonry surfaces. The product can be used straight from the container for heavy duty cleaning or diluted with water for general concrete cleaning.
- 2) Eco-Green® Concrete & Stone Sealer, a fast-acting, all-natural concrete sealer, forms a protective coating for highly trafficked stone surfaces. The stone and concrete sealer uses Micro-Blasting® particles to bond with surfaces to form an invisible, protective layer. The concrete floor sealer dries to a vibrant shine and protects a variety of stones surfaces, including: concrete, cement or stone sidewalks, walkways, and floors, while locking out moisture. The formula enhances color, prevents staining, and protects against: efflorescence buildup, oil, grease, carbons, algae, mold, mildew, rust, salt, corrosion, traffic wear and tracking. In addition, surfaces sealed with the product, resists damage from scuffs and scratches and respond well to conventional buffing or high speed burnishing.
- 3) Eco-Green® Road Salt Eliminator is a safe, bio-based product that reduces salt infiltration into reinforced concrete to prolong the life of floors, bridges, parking garages and other cement structures. The green chemicals provide building owners and property managers with a way to reduce salt infiltration -- without the negative environmental impacts, health risks and liability associated with the use of traditional products. Road Salt Eliminator uses Micro-Blasting® technology to penetrate concrete pores, dissolve salt and displace it to the surface where it can be washed away. Road Salt Eliminator can also be mixed with Eco-Green® Sub Zero Cleaner green chemicals to provide salt cleaning and protection in freezing conditions.
- 4) Eco-Green® Graffiti Remover is designed to remove unsightly markings from a variety of surfaces, include stone and concrete. Graffiti Remover's all-natural formula includes lifters and emulsifiers that remove paint, permanent marker, pencil, pen and grease. Graffiti Remover is effective on a variety of surfaces, including: concrete, brick and walls. It is also safe to use on metal, aluminum, fabrics, rubber, painted surfaces and leather.

Green Chemicals for Vehicles

- 1) Eco-Green® windshield washer fluids are available in five preparations formulated to improve visibility. Formulations include concentrated Windshield Wash Winter Formula Super Concentrate and ready-to-use Windshield Wash Winter Formula RTU, Windshield Wash Summer Formula Super Concentrate and Windshield Wash Summer Formula RTU, plus a year round Windshield Wash All Season Formula RTU. The solutions will not damage vehicle paint, car wax, rubber or plastics.

The Windshield Wash Winter Formulas melts snow and light ice on windshield surfaces, prevents refreezing and inhibits the buildup of dirt and road salt. It has freezing points from -15°F to -25°F . Windshield Wash Winter Formula Super Concentrate is designed for blenders and resellers, can be diluted at a ratio 600:1 – 800:1, does not require special blending equipment and can be easily prepared by an end user. It is ideal for large fleets (army, car dealerships, other companies managing numerous vehicles) that want to blend chemicals themselves. It is available in packages from 1 quart bottles and larger. Windshield Wash Winter Formula RTU is packaged in gallons and larger sizes for sale to consumers.

The Windshield Wash Summer Formulas remove insect stains, bird splatters, tar, sap, road gunk and other substances from vehicle windshields. Windshield Wash Summer Formula Super Concentrate can be diluted at a ratio of up to 1500:1. Like the winter product, it does not require special blending equipment, mixes easily with water, and can be easily prepared by end users. It is packaged in containers from 1 quart bottles and larger. Windshield Wash Summer Formula RTU, the ready to use version, is packaged in gallons and larger sizes.

Eco-Green Windshield Wash All Season Formula RTU is a ready to use formula that combines the benefits of Summer Formula and Winter Formula – it is formulated to remove bug and tar and has a freezing point of -25°F . It comes packaged in containers of gallons and larger.

2) Heavy-Duty Car Wash removes oil, grease, road tar, bugs, tree sap and other substances that can tarnish vehicle surfaces. The product is formulated for use with closed-loop car wash systems, pressure washers or even a sponge and bucket.

3) Truck Wash dissolves and removes hydrocarbon residues, such as petroleum derivatives, oils, fats, greases, sugars, and proteins. In addition, when applied to truck and vehicle tires, like 4x4's, Big Rigs, and other heavy equipment, Truck Wash can prevent the initial adherence of mud and grease. This truck cleaner can be applied with a brush, pressure washer or other means.

4) Other products for cleaning vehicles include exterior and metal cleaners, such as: Multi-Purpose Hard Surface Cleaner, Glass and Multi Surface Cleaner, Engine Cleaner & Degreaser, Deodorizer & Cleaner, Chrome & Steel Metal Cleaner, and Brake Dust Eliminator. For cleaning interiors, Eco-Green offers Carpet Care, Upholstery Cleaner and Adhesive & Ink Remover.

5) For cleaning tools, machinery, and garage areas, Daimer® consider: Ultra-Power™ Super Duty Degreaser, Ultra-Power™ Parts Washer & Cleaner and Concrete Cleaner with Rust Stain Remover and Oil & Gas Spill Cleanup. There is even a heavy duty, yet safe, Eco-Green® Hand Wash Cleaner Foam.

Reseller Programs

Daimer® offers special programs for Branded Re-Sellers, Private Label Distributors, Blending Manufacturers and Custom Chemical Formulators. All products are available for shipping worldwide.

Daimer® works with resellers by:

1. Providing MSDS sheet templates for each product
2. Assisting with providing information for EPA, EPA exemptions, NSF, and other regulatory registrations as required.
3. Offering samples as necessary

Contact Daimer® at (888) 507-2220 to speak with a Product Specialist or email us by filling out a form at www.daimer.com/reseller-programs.

Branded Re-Sellers

Daimer® offers discounted pricing to re-sellers that want to offer their customers Eco-Green® branded formulations. Daimer® is an industry leader in environmentally friendly alternatives and has brand recognition worldwide. The company vigorously markets the brand, so resellers can offer their customers a known commodity.

Learn more at - <http://www.daimer.com/green-chemicals-branded-resellers>

Private Label Distributors

For businesses that want to promote and sell proprietary-named products to increase their brand awareness and yield higher profit margins, Daimer® offers an opportunity to private label Eco-Green® ecologically-friendly green chemicals. Daimer® private label services including: product naming, trademark application and acquisition, label creation, packaging, shipping, toll manufacturing and other assistance with special formulations.

Learn more at - <http://www.daimer.com/green-chemicals-private-label>

Blending Manufacturers:

Daimer® offers specially-formulated, super-concentrated chemicals using proprietary nano-based chemistry in 275-gallon totes at manufacturer's pricing. In addition, 55-gallon drums are available. The line of blender's base formulations currently includes twelve products, including Carpet Care, Heavy-Duty Car Wash, as well as a concrete cleaner with rust-stain remover, a heavy-duty degreaser, a multi-purpose hard surface cleaner, a glass and multi-surface cleaner, a neutral floor cleaner and an odor remover. Daimer® provides editable MSDS sheets and directions for use so blenders can promote and sell their own proprietary named products, increase brand awareness and produce higher profit margins. *Learn more at - <http://www.daimer.com/green-chemicals-blending-manufacturers/>*

Custom Chemical Formulators:

Daimer® works with customers to provide solutions to the toughest problems using Eco Green® environmentally-friendly chemicals. Daimer® chemists can adjust dilutions, change scents and develop new products to meet the varying needs of today's complex marketplace. Confidentiality agreements ensure the protection of proprietary formulations. Daimer® can also assure that product labels contain all necessary regulatory information, including compliance and safety information. Daimer® can use the customers' graphic

art and design, or design and print custom labels. *Learn more at - <http://www.daimer.com/custom-chemical-formulators/>*