



***“Children deserve a clean, green and safe environment.”
- Deirdre Imus***

The Deirdre Imus Environmental Center for Pediatric Oncology® at Hackensack University Medical Center, a 501(c)(3) not-for-profit corporation, represents one of the first hospital-based programs whose specific mission is to identify, control and ultimately prevent exposures to environmental factors that may cause adult, and especially pediatric cancer, as well as other health problems with our children.

The U.S. Environmental Protection Agency (EPA) reports that one in five people in America spend their days in schools as students, teachers, administrators and staff. (1)

Unfortunately, school buildings across the nation are plagued by environmental threats, whether the building is located near hazardous waste or industry, or is home to chemical exposures from pesticides, cleaning products or other environmental insults such as mold and lead.

These lead to school absenteeism, learning disabilities, asthma and other chronic health issues. In fact, one of the primary causes of school absenteeism is asthma-related illness, which affects one out of every 13 school-aged children. It results in 14.7 million missed school days per year (2). Children are especially vulnerable to environmental threats, because pound for pound of body weight, they take in more air, water and food than adults. They also play closer to the ground, where contaminants may settle, and often have frequent hand-to-mouth activity.

While not all environmental hazards are preventable, many are. Greening the Cleaning® is one cost-effective way to help create a safer school. Perhaps best of all, using Greening the Cleaning® products can save money and precious natural resources.

Sources:

1. U.S. EPA, Green Schools Checklist. 25 June 2007. <<http://www.epa.state.il.us/p2/green-schools/green-schools-checklist.pdf>>.
2. U.S. EPA, Benefits of Good Indoor Air Quality/IAQ Tools for Schools Program. 25 June 2007. <<http://www.epa.gov/iaq/schools/benefits.html>>.



Supporting and Promoting Green Schools: The United States Conference of Mayors

In June 2007, The United States Conference of Mayors adopted resolutions that included green schools for all American children as a necessary goal for the nation. They noted that:

- Over 55 million students and more than 5 million faculty, staff, and administrators spend their days in school buildings.
- Greening school buildings is a significant opportunity to have a major impact on human, environmental, and economic health.
- Children in green schools are healthier and more productive because green schools emphasize excellence in areas of day lighting, acoustics, and classroom design, which have a profound impact on children's ability to learn.
- Green schools have superior indoor air quality and thermal comfort, significantly reducing students' exposure to chemicals and environmental toxins.
- The benefits of cleaner indoor air quality – a key emphasis of green schools – have been linked to lower asthma rates, fewer allergies, reduced absenteeism, and increased teacher retention rates.
- Green schools cost less to operate and greatly reduce water and energy use, which generate significant financial savings.
- Green schools provide a learning experience that transcends the classroom by allowing the building to become an eco-friendly education catalyst and maximizing educational opportunities for generations to come.
- The United States Conference of Mayors endorses that in a generation, every child in America will attend a green school as the necessary and appropriate goal of our nation -- and the long-term target toward which individual communities also should arrive.

Source: The United States Conference of Mayors. "Adopted Resolutions." June 2007. pp. 157-158. 13 June 2007

http://www.usmayors.org/75thAnnualMeeting/resolutions_full.pdf

You can also visit our Greening the Cleaning® legislation link here:

<http://www.dienviro.com/index1.aspx?BD=17862>



Product Mission

It is our mission to provide the public with the safest and most environmentally responsible cleaning products possible. Our products are formulated using naturally derived ingredients that help minimize the hazards normally associated with traditional cleaners. They are non-toxic when used as directed, readily biodegradable, and free of any known human carcinogens and teratogens. Our products are used in leading hospitals, schools, and businesses throughout the United States.

Top 10 Reasons to Green Your School with Greening the Cleaning®:

1. Help protect children's health. Decrease school absenteeism and nurse visits due to poor indoor air quality (IAQ).
2. Save money with reduced consumption of cleaning chemicals.
3. Increase efficiency of maintenance staff.
4. Generate good will in your school and community by publicizing your efforts.
5. Help reduce or avoid liability problems through exposure to toxic and harsh chemicals.
6. Educate school students and staff about environmental stewardship.
7. Help increase student performance, as statistics demonstrate that poor IAQ can reduce the ability to perform specific mental tasks requiring concentration, calculation, or memory. (1)
8. Support a great cause with every purchase. **100% of all profits from Greening the Cleaning® institutional products go to the Center for supporting education and research to identify, control and ultimately prevent exposures to environmental factors that may cause adult, and especially pediatric cancer, as well as other health problems with our children.**
9. Increase demand for recycled packaging: Greening the Cleaning® products are packaged in recycled-content #2 plastic and are shipped in recycled-content cardboard boxes.
10. Help protect our waterways and overall environment with products that are readily biodegradable.

Sources:

1. U.S. EPA, Benefits of Good Indoor Air Quality/IAQ Tools for Schools Program. 25 June 2007. <<http://www.epa.gov/iaq/schools/benefits.html>>.

For more on the State of Children's Health, visit:
<http://www.dienviro.com/index.aspx?lobid=952>



Frequently Asked Questions

What does Greening the Cleaning® at your school mean?

Greening the Cleaning® at your school means eliminating to the greatest extent possible, all cleaning agents containing hazardous ingredients and replacing them with naturally-derived ingredients with the least level of toxicity.

Why did Hackensack University Medical Center adopt the Greening the Cleaning® program?

The question was simple: Why use products that may cause illness in a healthcare setting? The answer was equally apparent: patients who are already in a compromised state of health should not be exposed to products that may potentially cause illness. For this reason, Hackensack University Medical Center undertook a comprehensive program to use only environmentally “smart” cleaning products. The result is a medical center that we believe is safer for everybody: patients, staff and visitors alike.

Will Greening the Cleaning® cost more in your school?

To date, none of the institutions that have participated in the program have experienced an increase in costs. **In fact, they may enjoy a cost savings or budget neutral results, for a variety of reasons.** Buying bulk quantities of concentrated cleaning products cuts down on packaging and shipping costs. Ordering fewer cleaning products saves money and saves space in janitorial closets and carts. Education of housekeeping staff enables them to use the products more efficiently, which reduces waste. Also, staff members are no longer subjected to irritating chemicals, so they remain healthy, which reduces employee sick time and worker’s compensation. Before The Greening the Cleaning® products were implemented, Hackensack University Medical Center Environmental Services staff averaged about 13 incidents per year due to burns, rashes, or asthma attacks. Since then, not one incident has been reported. Hackensack University Medical Center, which converted to the Greening the Cleaning® program in 2001, also has experienced a 15% cost savings.

NOTE: 100% of all profits from our institutional products go to the Center for supporting education and research to identify, control and ultimately prevent exposures to environmental factors that may cause adult, and especially pediatric cancer, as well as other health problems with our children.

Are The Deirdre Imus Environmental Center for Pediatric Oncology's Greening the Cleaning® products really “green?”

Yes, our products utilize natural or naturally-derived ingredients (palm kernel oil, washing soda, surfactants derived from coconut and corn, enzymes and botanical derived fragrances).

Our cleaning products do not contain carcinogens, mutagens, neurotoxins, teratogens, or endocrine disruptors. In addition, they are free of ozone-depleting compounds, greenhouse gases, and substances that contribute to smog. Our products also meet other very stringent requirements that ensure they clean effectively without harming the environment or people. They do not affect wildlife or aquatic life and are readily biodegradable.

If all ingredients on a product label are environmentally sound, does that guarantee that a product is “green?”

No, companies are not required by the U.S. Environmental Protection Agency (EPA) to disclose ingredients. Manufacturers are not required to list ingredients that make up less than 0.1% of listed carcinogens or 1% of listed OSHA chemicals. In many cases that small percentage can be a major ingredient in a cleaning product. This often occurs in products such as disinfectants and anti-microbials.

Please be aware that Greening the Cleaning® products list each and every ingredient on the label.

Do the Greening the Cleaning® products work as well as the conventional ones?

The products chosen for Greening the Cleaning® are just as effective and, in some cases, work better than those they replace, without potentially harmful elements. For example, The Deirdre Imus Environmental Center for Pediatric Oncology® replaced Hackensack University Medical Center’s existing window cleaner with one that was free from fuming solvents such as ammonia, and changed the medical center’s basic cleansing agent to one with no strong acids, chlorine, phosphates, benzene or other potentially hazardous agents. In addition, the medical center’s staff maintains that these products work better. Hackensack University Medical Center is the 4th largest hospital in the country based on in-patient admissions. It has over two million out-patient visits a year, over 7,200 employees and has 2.85 million cleanable square feet. If it can work in a facility this size with so much daily traffic, why wouldn’t it work in your facility?

Where can my school order Greening the Cleaning® Products?

Greening the Cleaning® products can be ordered through The Deirdre Imus Environmental Center for Pediatric Oncology® by calling 201-336-8071 or by emailing dienviro@humed.com.

Are Greening the Cleaning® products sold in retail stores?

Yes, Greening the Cleaning® retail products are sold nationwide. You can also order them through www.imusranchfoods.com. **Note: 100% of all profits go to The Imus Cattle Ranch for Kids with Cancer in Ribera, New Mexico.**

What ingredients are in Greening the Cleaning® products?

Our products utilize natural or naturally-derived ingredients derived from corn, coconuts and soybeans.

What Greening the Cleaning® products could be implemented in my school?

We have a full line of cleaning products from General Purpose Cleaners to No Zinc Floor Finishes. The top four products that are commonly used in schools are:

1. General Purpose Cleaner DIN 1
2. Basin Tub & Tile Cleaner DIN 7
3. Glass Cleaner DIN 13
4. Neutral Disinfectant DI 256

View more information about our institutional products at:

<http://www.dienviro.com/index1.aspx?BD=17866>

Download our product catalog at:

http://www.dienviro.com/s950/images/product_catalog_6.9.07.pdf





Greening the Cleaning[®] School Client Reference List

<p>1. Ms. Alyson Landers Acorn Montessori School 1222 Route 31 Lebanon, NJ 08833 Tel: 908-730-8986 x 17 Fax: 908-730-6797 alyson@acornschooll.org</p>	<p>2. Ms. Louise Stewart-Spagnuolo Bridgeport Roman Catholic Diocese 238 Jewitt Avenue Bridgeport, CT 06606-2892 Tel: 203-416-1405 Fax: 203-371-8698 ls spagnuolo@diobpt.org</p>	<p>3. Ms. Cindy Douglas Caliente Union School District 12400 Caliente Creek Road Caliente, CA 93518 Tel: 661-867-2301 Fax: 661-867-6902 cidougl@zeus.kern.org</p>
<p>4. Ms. Joyce Smith Administrative Director Corlears School 324 West 15th Street New York, NY 10011 Tel: 212-741-2800 Fax: 212-807-1550 joycesmith@corlearsschooll.org</p>	<p>5. Mr. Jay Cox Business Manager Foot School 50 Loomis Place New Haven, CT 06511 Tel: 203-777-3464 Fax: 203-777-2809 jcox@footeschooll.org</p>	<p>6. Ms. Elaine Siegel Gateway School 236 Second Avenue New York, NY 10003 Tel: 212-777-5966 esiegel@gatewayschooll.org</p>
<p>7. Mr. Richard Wisniewsky Heschel School 270 West 89th Street New York, NY 10024-1705 Tel: 212-595-7087 x 12241 Fax: 212-595-7252 richard@heschel.org</p>	<p>8. Mr. Eric Carr Supervisor of Building & Grounds Kingwood Twp. Board of Education 880 County Road 519 Frenchtown, NJ 08825 Tel: 908-996-0941 x505 Fax: 908-996-0075 ecarr@kingwoodschool.org</p>	<p>9. E. Jane Brown Pope John XXIII High School 28 Andover Road Sparta, NJ 07871 Tel: 973-726-4528 Fax: 973-729-4313 janebrown@popejohn.org</p>
<p>10. Ms. Fran Finkelstein Business Administrator Red Bank Public Schools 76 Branch Avenue Red Bank, NJ 07701 Tel: 732-758-1507 Fax: 732-758-1505 finkelstein@rbb.k12.nj.us</p>	<p>11. Mr. Josh Eisen Rudolf Steiner School 15 East 79th Street New York, NY 10021 Tel: 212-535-2130 Fax: 212-744-4497 jeisen@steiner.edu</p>	<p>12. Mr. Alan Feldman Stoneridge Children's Montessori School 290 Hale Street Beverly, MA 01915 Tel: 978-927-0700 x 315 Fax: 978-922-3088 afeldman@stoneridgecms.org</p>
<p>13. Ms. Donna Sens Administrative Assistant The Willow School 1150 Pottersville Road Gladstone, NJ 07934 Tel: 908-470-1571 Fax: 908-470-1573 dsens@willowschooll.org</p>	<p>14. Ms. Bonnie Branciforte York Avenue Preschool 1520 York Avenue New York, NY 10028 Tel: 212-734-0922 Fax: 212-861-8901 bonni914@aol.com</p>	

Call us for a free consultation and facility evaluation at: 201-336-8071



How to Implement Greening the Cleaning® at Your School

The Greening the Cleaning® program to replace toxic cleaning products with environmentally-responsible alternatives is implemented in schools, daycares and participating institutions, at no cost other than the cost of the products themselves, through the four phase action plan described below. **Note: The process is seamless and can be tailored to your current procurement requirements.**

Phase 1: Presentation of Greening Concepts

Under the advisement of The Deirdre Imus Environmental Center for Pediatric Oncology®, the concept of “greening” is presented to and adopted by School Boards, Superintendents and Principals. Next, an institution-wide inventory of all cleaning products is collected and evaluated. During this phase, a multidisciplinary team is established to proceed with the implementation of the program.

Phase 2: Assessment

Assessment of the current cleaning products and cleaning practices is reviewed and compared with environmentally-responsible substitutes and practices. As a result of this assessment, a cost analysis will be provided and provisions are made to order new equipment and the Greening the Cleaning® supplies. Whenever possible, storage space is renovated for the environmental service staff. Key staff members are educated on an ongoing basis before, during, and after the implementation phase. During the assessment phase, custodial staff, faculty, and management introduce many of the concepts of environmental cleaning alternatives and their advantages.

Phase 3: Implementation

Implementation of the program is very simple. It is a seamless transition from traditional cleaners to our Greening the Cleaning® products. Staff would simply exchange a current chemical for a more environmentally-responsible product. Mixing stations are also installed for the facility, and staff is trained on their use. The conversion is completed and fully operational.

Phase 4: Follow-up

The program and process are evaluated for approximately one month after the implementation process is complete. In addition to creating a safer environment, the Greening the Cleaning® program introduces healthy work/healthy home concepts to all who are associated with the newly “greened” institution.



Know the Facts:
What Cleaning Products
Are Being Used In Your School?
(...and their ingredients)

Did you know?

- Ingredients in traditional cleaners used in schools can harm your child's health and the health of staff, visitors and peers.
- The World Health Organization estimates that 80% of all cancers are environmentally related.
- Cleaning chemicals can cause headaches, asthma, burns, permanent eye damage, major organ damage, and even cancer.
- The World Health Organization estimates that 30% of all buildings experience indoor air quality (IAQ) problems. Cleaning products can be a key contributor.
- **Manufacturers are not required** to list ingredients that make up less than 0.1% of listed carcinogens or 1% of listed OSHA chemicals.
- The World Health Organization states that indoor air pollution is attributable to the deaths of 1.6 million people per year – one death every 20 seconds.

DANGER • WARNING • CAUTION

Many household products contain pesticidal and toxic ingredients that can be harmful to humans, animals, or the environment.
-- U.S. Environmental Protection Agency

Learn about the potentially hazardous ingredients found in many common cleaners...



Glass Cleaners
All-Purpose Cleaners
Bathroom Cleaners
Bleach

... And six good reasons to switch to the award-winning Greening the Cleaning® program today. ►

Glass Cleaners

Common Ingredients

Known or Potential Health Effects

Isopropyl alcohol - Can irritate skin and eyes.

- × **Acute Health Effects** – can irritate and burn skin and eyes in addition to nose and throat irritation. Overexposure can cause headache, drowsiness, confusion, loss of coordination, unconsciousness and death.
- × **Chronic Health Effects** – Repeated skin exposure can cause itching, redness, rash, drying and cracking.
- × Has not been adequately evaluated to determine whether brain or other nerve damage could occur with repeated exposure. However, many solvents and other petroleum-based chemicals have been shown to cause such damage.
- × Other long-term effects include potential damage to the liver and kidneys.

2-butoxyethanol - Can irritate eyes, nose, throat and mouth.

- × **Acute Health Effects** – can cause headache, dizziness, lightheadedness, confusion and passing out.
- × Irritation to the eyes, nose, throat and mouth.
- × **Chronic Health Effects** – may damage the developing fetus and may damage the testes (male reproductive glands).
- × Other potential long term effects include damage to liver and kidneys. Additionally, suspected of causing learning disabilities in children.

Ammonia - Can irritate skin, eyes, nose and throat.

- × **Acute Health Effects** – can irritate and burn the skin and eyes, leading to permanent damage.
- × Can irritate the nose, throat and lungs causing coughing, wheezing and shortness of breath.
- × Higher exposures can cause a build-up of fluid in the lungs (pulmonary edema).
- × Exposure can cause headaches, loss of sense of smell, nausea and vomiting.

Ethylene Glycol - Can irritate eyes, nose and throat.

- × **Chronic Health Effects** – may be a teratogen (substance which can cause birth defects) in humans.
- × Repeated or high exposure may affect kidneys and brain.



All-Purpose Cleaners

Common Ingredients

Known or Potential Health Effects

2-butoxyethanol - Can irritate eyes, nose, throat and mouth.

- * **Acute Health Effects** – can cause headache, dizziness, lightheadedness, confusion and passing out.
- * Irritation to the eyes, nose, throat and mouth.
- * **Chronic Health Effects** – may damage the developing fetus and may damage the testes (male reproductive glands).
- * Other potential long term effects include damage to liver and kidneys and suspected of causing learning disabilities in children.

Trisodium phosphate - Can irritate skin, eyes, nose and throat.

- * **Acute Health Hazards** – moderately toxic to humans. Inhalation of heavy dust may irritate nose and throat. Ingestion may injure mouth, throat, and gastrointestinal tract. Contact with eyes produces local irritation and possible conjunctivitis.
- * Breathing of dust may aggravate acute or chronic asthma and other chronic pulmonary disease.
- * Skin irritation may be aggravated in persons with existing skin lesions.
- * **Chronic Health Hazards** – chronic toxicity is known, but not believed significant for low concentration.

Ethylene glycol monobutyl acetate - Can irritate eyes, nose and throat.

- * Symptoms of acute overexposure to ethylene glycol butyl ether compounds include drowsiness, nausea, shaking and weakness.
- * **Chronic Health Effects** – Repeated exposure may damage the bone marrow, blood cells, kidneys and liver.

Nonylphenol ethoxylate (NPE) or alkylphenol ethoxylate (APE)

(See laundry detergents)

Bathroom Cleaners

Common Ingredients

Known or Potential Health Effects

Sodium hypochlorite/chlorine - Can affect breathing. Contact may severely irritate and burn the skin and eyes with possible eye damage.

- × **Acute health effects** – can severely irritate and burn the skin and eyes with possible eye damage.
- × Breathing sodium hypochlorite can irritate the nose and throat.
- × Can irritate lungs causing coughing and/or shortness of breath. Higher exposures can cause a build-up of fluid in the lungs (pulmonary edema), a medical emergency, with severe shortness of breath.
- × **Other long-term effects** – Repeated exposure may cause bronchitis to develop with cough, phlegm, and/or shortness of breath.

Bleach

Common Ingredients

Known or Potential Health Effects

Sodium hypochlorite/chlorine - Can affect breathing. Harmful if inhaled. Causes respiratory tract irritation.

- × **Acute health effects** - Can severely irritate and burn the skin and eyes with possible eye damage.
- × **Ingestion:** Causes digestive tract burns. May cause methemoglobinemia.
- × **Inhalation:** May cause pulmonary edema.

There *IS* a better way...

The Award-Winning Greening the Cleaning® Program

	<p>Greening the Cleaning® means eliminating to the greatest extent possible, all cleaning agents containing hazardous ingredients and replacing them with naturally derived ingredients with the least level of toxicity.</p>	
<p>Greening the Cleaning® Household Products</p> <p>100% of all profits go to The Imus Cattle Ranch for Kids with Cancer in Ribera, New Mexico.</p>	<p>Ingredients:</p> <p>Palm Kernel Oil Washing Soda Surfactants derived from coconut and corn Botanical derived fragrances</p>	<p>Greening the Cleaning® Institutional Products</p> <p>100% of all profits go to the Center for supporting education and research to identify, control and ultimately prevent exposures to environmental factors that may cause adult, and especially pediatric cancer, as well as other health problems with our children.</p>

Goals and Objectives

1. **TOXICITY REDUCTION**

The program reduces emissions and provides a cleaner, less toxic environment. There is no reason to use toxic cleaning agents in schools, because our products are just as effective if not better than traditional cleaners.

2. **QUANTITY REDUCTION**

Fewer cleaning products are being ordered, and replaced with multipurpose products, while maintaining the highest quality of safety.

3. **WASTE MINIMIZATION**

A dispensing system is installed to ensure no waste, accidents, or misuse.

4. **COST REDUCTION/BUDGET NEUTRAL**

More than 276 healthcare facilities, businesses, schools and government authorities have implemented the Greening the Cleaning® program, **all with direct savings in cleaning costs.**

5. **SPACE REDUCTION**

The Greening the Cleaning® program encourages facilities to consolidate supplies in one centralized location to aid in the management of inventory.

6. **EDUCATION OF PERSONNEL**

The Environmental Center educates all personnel in the participating facility, from the custodial staff to teachers and top-level faculty, so they can work together to preserve their environment at no additional cost.

Tested in NY City Schools!

Our products were all tested successfully in New York City Schools as part of the "Clean, Green Schools" pilot program conducted by Grassroots Environmental Education and Wellness in the Schools. For more information, please visit www.wellnessintheschools.org.



Greening the Cleaning® Product Standards*

Greening the Cleaning® means eliminating to the greatest extent possible, all cleaning agents containing hazardous ingredients and replacing them with environmentally-responsible products that utilize natural or naturally-derived ingredients.*

*While the Environmental Center strives to use only all-natural, or all naturally-derived ingredients wherever possible, effective all-natural replacements are not available for every type of cleaning product at this time. For this reason, the Environmental Center has established a tier system for products which may contain some synthetic ingredients for which effective natural substitutes have yet to be developed but still achieves the least level of toxicity while maintaining the highest level of efficacy.

The Greening the Cleaning® program establishes the highest standards for health and safety -- only choosing products with the least level of toxicity or non-toxic, while maintaining the highest level of product efficacy.

Unfortunately, the generally-recognized U.S. green product standards:

- Do not stipulate the use of natural or naturally-derived ingredients.
- Allow for petroleum-derived ingredients.
- Do not adequately address ingredients that may be potential carcinogens, teratogens, mutagens, endocrine and hormone disruptors.
- Allow for synthetic fragrances.
- Allow for chlorinated organics.
- Do not address the potential bioaccumulation of certain chemicals.
- Do not call for disclosure of all ingredients.
- By their own admission, the standard does not have provisions for product safety.
- Allow for phosphates.

The following standards apply to Greening the Cleaning® products:

- All ingredients are fully disclosed.
- Product formulations are third-party certified.
- Rigorous Quality Assurance/Quality Control program.
- Water supply should be purified, and free of chlorine and residual chlorine.
- Raw material suppliers are required to certify their materials.
- Product formulations must meet or exceed American Society for Testing and Materials (ASTM) standards for the specific product category for efficacy.
- All products must achieve the least level of toxicity while maintaining the highest level of efficacy.
- All products must be cost competitive with traditional cleaners.

Tier I Products – Tier 1 General Cleaning Products are comprised of all-natural or naturally-derived ingredients and include, but are not limited to, general purpose cleaners, glass and window cleaner, basin tub and tile, hand soaps (non-disinfectant), laundry detergent and bowl cleaners. **Products in Tier 1 should meet the following standards:**

- Must be free of any known human carcinogens, mutagens, teratogens and endocrine disruptors.
- Must not contain Nonyl Phenol Ethoxylate (NPE) or Alkyphenol Ethoxylate (APE).
- Must not contain compounds or substances which cause or contribute to the creation of atmospheric greenhouse gases, ground level smog or ozone depletion.
- Must not be corrosive to skin or inanimate surfaces.
- Must not be a severe skin or eye irritant.
- Must not be delivered in single-use aerosol cans or cans using ozone-depleting propellants.
- Must not contain petroleum-derived or petrochemical-blended fragrances.
- Must not contain heavy metals that are toxic to humans, animal life or the environment.
- Should not be combustible below 150°F.
- Must not contain chlorine, chlorinated or brominated solvents.
- Must not contain compounds that persist or bio-accumulate in human or animal tissue or in the environment.
- Must not contain volatile organic compounds (VOCs) at levels exceeding the limits established by the Southern California Air Quality Management District Resources Board for the applicable product categories. Products must not be listed on the hazardous air pollutants list of the Environmental Protection Agency.
- Should be readily biodegradable at greater than 90% in thirty days without the need of being run through a municipal effluent treatment process. If not biodegradable due to inorganic content, the ingredient must be chemically inert.
- Must be obtained or derived from replenishable natural (plant) sources.
- Should be as concentrated as possible to green the supply chain. Products should be capable of being dispensed through automatic systems in order to reduce user and environmental contact.
- Should have a pH level between 4 and 9 wherever possible.

Tier II Products – Tier II Floor Care Products to the greatest extent possible are natural or naturally-derived. However, they may include some synthetic ingredients for which effective natural substitutes have yet to be developed. Tier II products include but are not limited to floor finish, stripper, carpet extraction, carpet and upholstery shampoo, spray buff, pot and pan cleaner and floor cleaner. **Tier II products should be comprised of the following:**

- Should contain to the fullest extent possible natural or naturally-derived ingredients.
- Synthetic ingredients are to be limited and used only if a naturally-derived alternative is not available and only to achieve and maintain the desired efficacy.
- Should achieve a neutral pH whenever possible.
- Should contain low or no VOCs whenever possible.
- Should be derived from renewable resources (plant) whenever possible.
- Must not contain heavy metals that are toxic to humans, animal life or the environment.
- Must not be delivered in single-use aerosol cans or cans using ozone-depleting propellants.
- Must not contain ozone-depleting ingredients or phosphates.
- Must not contain Nonyl Phenol Ethoxylate (NPE) or Alkylphenol Ethoxylate (APE).

Tier III Products – Tier III Sanitizer and Disinfectant Products to the greatest extent possible are natural or naturally-derived. However, they may contain some synthetic ingredients for which natural substitutes have yet to be developed. In the case of Sanitizers and Disinfectants, the effectiveness of such products at killing germs is paramount and synthetic microbiocides are simply more effective than potential replacements of natural origin at this time. To the fullest extent possible **Tier III should be comprised of the following:**

- Surfactants must be naturally-derived from renewable resources.
- Must not contain heavy metals that are toxic to humans, animal life or the environment.
- Must not be delivered in single-use aerosol cans or cans using ozone-depleting propellants.
- Must not contain Nonyl Phenol Ethoxylate (NPE) or Alkylphenol Ethoxylate (APE).
- Must not contain ozone-depleting ingredients or phosphates.
- Must achieve a neutral pH whenever possible.
- Synthetic ingredients are to be limited and used only if a naturally-derived alternative is not available and only to achieve and maintain the desired efficacy.
- Must not contain heavy metals that are toxic to humans, animal life or the environment.

Product formulations and manufacturing facilities for Greening the Cleaning® products meet or exceed the following standards:

- Green Seal®
- Environmental Choice program
- ISO 9002 Certified
- LEED requirements for new and existing buildings

For more information, visit dienviro.com or call us: 201-336-8071.

**For a list of all institutional products available,
download our product catalog at:
http://www.dienviro.com/s950/images/product_catalog_6.9.07.pdf**

For our household line, visit: imusranchfoods.com.

Sources: National Institutes of Health; New Jersey Department of Health and Human Services; World Health Organization; Environmental Health Perspectives Supplements Volume 107, Number S1, February 1999 – Comparison of Short-Term Estrogenicity Tests for Identification of Hormone Disrupting Chemicals; British Medical Journal – Endocrine Disruptors and Human Health (BMJ 2001; 323:1317-1318 December 8); U.S. Environmental Protection Agency; Center for Bioenvironmental Relations at Tulane and Xavier Universities

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