

Green Cleaning and Safer Disinfecting

With a Focus on Procurement

Introductions

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Agenda

- Green Cleaning in Schools/NYS Law (NYS DEC)
- Green Cleaning/Disinfection (RPN)
- Certifications/Ecolabels (RPN)
- Green Procurement (NYS OGS)
- Wrap-up/Q&A



Green Cleaning and Maintenance

New York States Green Cleaning Law (Chap. 584 of the Laws of 2005)

- Requires elementary and secondary schools to procure and use environmentally sensitive cleaning and maintenance products under the guidelines provided by the Office of General Services.
- OGS maintains a list of approved green cleaning products for schools to reference in compliance with the law.
- https://greencleaning.ny.gov/Product/Default.aspx
- Note: This does not include disinfectants



Safer Cleaners and Disinfectants



Alicia Culver Responsible Purchasing Network

Presentation to the

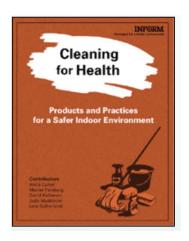
NYS School Environmental Health Conference 2022

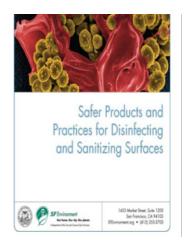
October 25, 2022





Green Cleaning Background











What is Green Cleaning?

The use of cleaning products and practices that have a lesser or reduced effect on human health and the environment compared to competing products and practices that serve the same purpose.







Types of Janitorial Chemicals

- General Purpose Cleaners
- (Neutral) Floor Cleaners
- Bathroom Cleaners (Non-Disinfecting)
- Peroxide-based Cleaners
- Glass Cleaners
- Carpet Cleaners
- Cleaner-Degreasers
- Toilet Bowl Cleaners
- Metal/Furniture Polish
- Deodorizers
- Floor Polish/Strippers







Environmental & Health Concerns

- Acute Exposure to Toxic Chemicals
 - Chemical burns/serious injury to the eyes, skin or lungs
 - Headaches and central nervous system (CNS) effects
- Chronic Exposure to Toxic Chemicals
 - Asthma, cancer, reproductive and developmental toxicity, endocrine disruption
 - Toxicity to fish and other aquatic species
- Packaging Waste
- Transportation Impacts







Why Use Green Cleaning Products

- Create a healthier work environment by removing toxins from the workplace, keeping employees healthier, happier and more productive.
- Improve indoor air quality by reducing airborne dust and chemical gases.
- Promote a healthier environment for the public and employees.
- Lowers the environmental impact/footprint of the facility.



- Meets schools' obligations under the New York State Green Cleaning Law (Chapter 584 of the Laws of 2005). Under this law, schools are required to procure and use environmentally sensitive cleaning and maintenance products.
- Under Executive Order 4, state agencies, public authorities and public benefit corporations are required to purchase cleaning products that meet environmental specifications for Hand Cleaners/Hand Soap and Industrial/Institutional Cleaning Products. Review the EO 4 specifications at: https://ogs.ny.gov/greenny

Source: NYS OGS Green Cleaning Fact Sheet





What is "greenwashing"?

Green·wash - verb:

the act of misleading consumers about the environmental practices of a company or the environmental benefits of a product or service





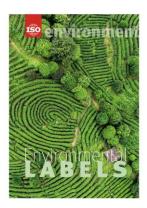




Ecolabels CAN make your job easier

Here's how...

- Certifiers do the environmental evaluation work for you,
 verifying accuracy of manufacturers' claims
- Ecolabels level the playing field for competing products
- Standards often address performance
- Certifier registries make it easy to find compliant products







Single- vs. Multi-Attribute Certifications

Single-Attribute Certification





Multi-Attribute Certification





How to Identify Green Cleaners

- Third-party certification
 - Verifies low-toxicity
 - Confirms performance







- Additional attributes
 - Free of dyes and fragrances
 - Concentrated
 - Automatic dilution
 - Close-loop packaging









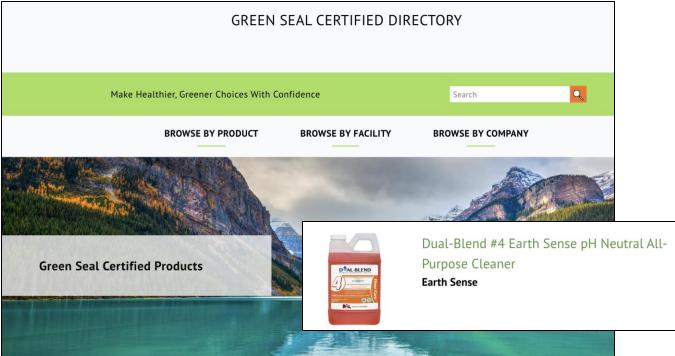
Green Seal's Green Cleaning Standard

- Products may not be corrosive or sensitizing to skin or cause serious eye damage
- Prohibits/Limits
 - □ Carcinogens, mutagens and reproductive toxins
 - Asthmagens (respiratory sensitizers)
 - ☑ Other chemicals of concern: alkylphenol ethoxylates (APEs), 2-butoxyethanol, halogenated solvents, heavy metals, ozonedepleting compounds, PFAS, phthalates, VOCs, and more
- Products must meet ASTM **performance** standards https://greenseal.org/standards/gs-37-cleaning-products-for-industrial-and-institutional-use/





Use Certifiers' Product Registries Green Seal

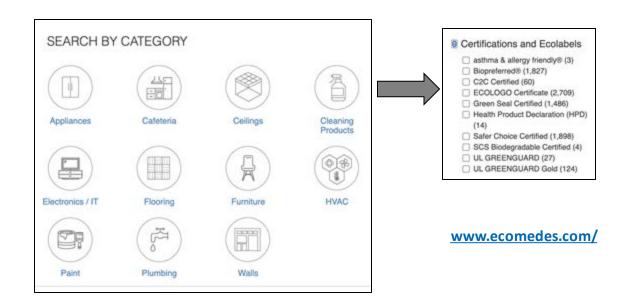






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Use Environmental Certification Data Aggregators







Use Concentrated Cleaners

- Sprays and wipes cost far more to use than concentrates.
- San Francisco found aerosol cleaners up to 27 times more expensive than concentrated "green" cleaners.
- Concentrates lower plastic packaging waste and transportation costs and impacts.
- Automatic dilution equipment prevents overuse and user exposure to concentrates.
- Many brands of concentrated cleaning products have low-toxicity certifications from Green Seal, Safer Choice, or UL ECOLOGO.







CDC Cleaning and Disinfecting Guidance to Prevent COVID-19

Cleaning of visibly dirty surfaces followed by disinfection is a best practice measure for prevention of COVID-19 and other viral respiratory illnesses in households and community settings.

Clean and disinfect high-touch surfaces daily in household common areas (e.g., tables, hard-backed chairs, doorknobs, light switches, phones, tables, touch screens, remote controls, keyboards, handles, desks, toilets, sinks)

www.cdc.gov/coronavirus/2019-ncov/prevent-getting-

sick/cleaning-disinfection.html









ANDREW M. CUOMO Governor HOWARD A. ZUCKER, M.D., J.D. Commissioner

SALLY DRESLIN, M.S., R.N. Executive Deputy Commissioner

Interim Cleaning and Disinfection Guidance for Primary and Secondary Schools for COVID-19

What steps should schools in NYS take for COVID-19?

Now:

Schools should continue performing routine cleaning. Specific high-risk locations warrant cleaning and disinfection at least daily.

If an individual with laboratory confirmed COVID-19 was symptomatic in a school-setting:

Cleaning and disinfection throughout the school.

Specific high-risk locations within a school warrant cleaning and disinfection before a confirmed case of COVID-19 occurs in the school.

Examples of these locations include:

Health Office

- · Clean and disinfect health cots regularly (after each student use)
- Cover treatment tables and use pillow protectors
- Discard or launder coverings after each use

Lunchrooms

Clean and disinfect lunch tables regularly (at least once daily)

Athletic Rooms

- Establish a regular cleaning schedule for shared environmental surfaces such as wrestling mats or strength-training equipment
- · Disinfect mats and other high-use equipment at least daily

Other Frequently Touched Surfaces

 Clean and disinfect frequently touched surfaces at least once daily after students have left for the day





CDC: Asthma Increases Risk of Getting Sick from COVID-19



Risk of Severe Illness from COVID-19

People with moderate to severe asthma may be at higher risk of getting very sick from COVID-19. COVID-19 can affect your respiratory tract (nose, throat, lungs), cause an asthma attack, and possibly lead to pneumonia and acute respiratory disease.







Health Hazards of Conventional Disinfectants

Chlorine bleach (Sodium hypochlorite)

- Causes occupational asthma
- Corrosive to eyes and skin
- High aquatic toxicity



Quaternary ammonium chlorides ("Quats")

- Asthmagens
- Corrosive, need to be rinsed off
- Concentrate in sewage sludge







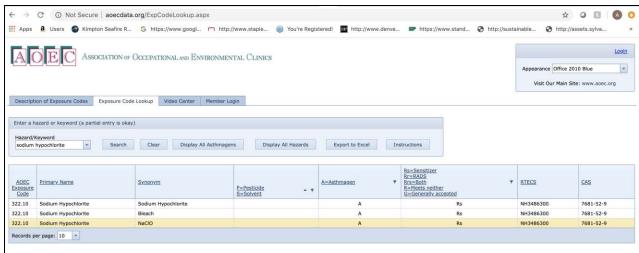
Chlorine Bleach is Corrosive







Asthmagens in Disinfectants

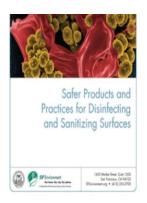


AOEC Exposure Code	Primary Name	Synenym	P=Pesticide S=Solvent	A=Asthmagen ♥	Rs=Sensitizer Rr=RADS Rrs=Both R=Meets neither G=Generally accepted	RTECS	CAS
322.3223	Benzyl-C16-18-alkyldimethyl ammonium, chlorides	Benzyl-C16-18-alkyldimethyl ammonium, chlorides		А	Rs		68607-20- 5
322.3222	Benzyl-C12-16-alkyldimethyl ammonium, chlorides	Benzyl-C12-16-alkyldimethyl ammonium, chlorides		А	Rs		68424-85- 1
322.3221	Benzyl-C12-18-alkyldimethyl ammonium, chlorides	Benzyl-C12-18-alkyldimethyl ammonium, chlorides		А	Rs		68391-01- 5
322.3219	Alkyl Dimethyl Benzyl Ammonium Chloride	Alkyl Dimethyl Benzyl Ammonium Chloride		А	Rs		61789-71- 7
322.3213	Dialkyl Methyl Benzyl Ammonium Chloride	Dialkyl Methyl Benzyl Ammonium Chloride		А	Rs		73049-75- 9





Safer Disinfectants



Health/Environmental Benefits

- No carcinogens or reproductive toxins
- No asthmagens or skin sensitizers
- Not corrosive to eyes/skin
- Break down safely in sewage

Safer "active" ingredients

- Hydrogen peroxide
- Citric acid /Lactic acid
- Ethanol/Isopropyl alcohol







Examples of Safer Disinfectants















Start With EPA's List N



CDC only recommends use of the surface disinfectants identified on List N against the virus that causes COVID-19. Centers for Disease Control and Prevention

CDC 24/7: Saving Lives, Protecting People™





Disinfectant Devices

Not regulated by US EPA

- No EPA Registration number for each device
- No list of approved devices

Use with caution

- Electrostatic sprayers
- Devices or pills that generate hypochlorous acid
 - or aqueous ozone

Avoid

- Misters and foggers
- UV devices





Force of Nature Multi-Purpose Cleaner &

Disinfectant Force of Nature





Antibacterial Hand Soaps 2016 FDA Ruling

FDA NEWS RELEASE

FDA issues final rule on safety and effectiveness of antibacterial soaps

Rule removes triclosan and triclocarban from over-the-counter antibacterial hand and body washes

"Consumers may think antibacterial washes are more effective at preventing the spread of germs, but we have no scientific evidence that they are any better than plain soap and water," said Janet Woodcock, M.D., director of the FDA's Center for Drug Evaluation and Research (CDER). "In fact, some data suggests that antibacterial ingredients may do more harm than good over the long-term."

<u>www.fda.gov/news-events/press-announcements/fda-issues-final-rule-safety-and-effectiveness-antibacterial-soaps</u>





Safer Hand Soaps











Green (Minimum Requirements)

- Free of pesticides
- Third party-certified

Greener (Desirable)

- No fragrances or dyes
- Automatic dispenser (not bulk)
- Recycled packaging
- Liquid versus foam





Other Greener and Safer Cleaning Supplies

- Microfiber mops and cloths
- Recycled-content sponges and floor scrubbing pads
- Gloves free of vinyl and latex
- Chemical-free mechanical keyboard cleaners
- Trash can liners with at least 10% postconsumer recycled content (PCRC)
- Rechargeable batteries
- Vacuums and carpet cleaners with a CRI Green Label certification











Greener Janitorial Paper

- Multi-attribute third-party certifications
 - Green Seal
 - UL ECOLOGO





- Minimum post-consumer recycled content (PCRC) requirements (meet US EPA's guidance)
 - Paper Towels (40% PCRC)
 - Toilet Tissue (20% PCRC)









Calculate Environmental Benefits of Buying Recycled Janitorial Paper







https://c.environmentalpaper.org/





How to Transition to Green Cleaning

- Assess current product use (identify high-usage/high-hazard products)
- **Identify products** that meet EPP specs and your performance requirements



- **Pilot test products** (and equipment) in select locations
- Purchase products and services (look on NYS contracts, consult existing vendors (especially preferred sources), solicit bids, etc.)
- Roll out to entire facility and track results





NYS Green Cleaning Resources











Sustainable Procurement Using OGS Contracts & the NYS eMarketplace

Environmentally Preferable Cleaning Products, Supplies & Equipment

December 14, 2022

Today's Presenter

Todd Kayser

Contract Management Specialist 2

NYS OGS Procurement Services



Agenda

- Finding green products
- The GreenNY icon
- Frequently purchased green products
- Environmentally preferable cleaning products
- Questions



Finding Green Products



Green Product Options

1. Preferred Sources

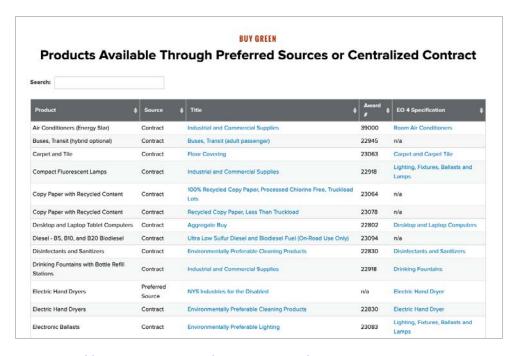
- Hand soap and cleaning products
 - NYS Department of Corrections, Division of Industries (Corcraft)
 - NYS Preferred Source Program for People Who are Blind (NYSPSP)
 - NYS Industries for the Disabled (NYSID)
- Paper towels, toilet tissue, electric hand dryers, and LED A19 lightbulbs
 - NYSID

2. OGS Centralized Contracts

Various products



The GreenNY Website



"Find Green Products" table

- Product type
- Group #
- Award #
- Contract name
- Link to contract
- Link to EO4 specification

https://ogs.ny.gov/greenny/green-purchasing-products-and-sources



The NYS eMarketplace

- What is the NYS eMarketplace?
 - An online shopping site for New York State agencies, municipalities, and all authorized users to buy goods from Preferred Sources and OGS centralized contracts
 - A portal that enables purchase order dispatch and direct credit card (e.g., P-card) payment

The NYS eMarketplace Webpage

 Accessed from the OGS Procurement website:

https://ogs.ny.gov/procurement

- Click on 'Go to the eMarketplace' to:
 - Create an account
 - Log into the eMarketplace
 - Get updates on content
 - Access user guides and FAQs





The NYS eMarketplace Webpage

- There have been some recent upgrades to the eMarketplace, including the addition of a price check feature
- Price check can be used to access the eMarketplace and check the price of commodities even if you don't have an eMarketplace account

WELCOME TO THE NEW YORK STATE EMARKETPLACE

This is New York State's online shopping site. State agencies and authorized users can buy items online from Preferred Sources and OGS centralized contracts. At this time, only commodities can be purchased through the eMarketplace.

Using the eMarketplace

The NYS eMarketplace is available to all authorized users of NYS centralized contracts. It is accessible through the Statewide Financial System (SFS) or directly through Proactis by authorized users who do not use SFS. If you are unsure if your organization is registered as an authorized user, please contact customer.services@ggs.ny.ggv.

As more products are added to the eMarketplace, they will be announced on the messages page in the eMarketplace and via the Purchaser Notification Service (PNS). Sign up to receive notifications from the PNS.

If you have an agency contract for commodities that you think would be a good fit for the eMarketplace, please make a suggestion to the eMarketplace team at eMarketplace@ogs.ny.gov.

New! OGS customers can now check the price of commodities in the NYS eMarketplace without an account.

PRICE CHECK





The GreenNY Icon



The NYS eMarketplace GreenNY Icon

- Used to easily identify products that meet Executive Order (EO4) specifications
- Products labeled with the icon have been reviewed for accuracy





Products Labelled with the GreenNY Icon

- Green products offered by Preferred Sources
 - Corcraft
 - NYSPSP
 - NYSID
- Environmentally Preferable Cleaning Products, Programs, Equipment & Supplies: Award 23245
- Environmentally Preferable Lighting: Award 23083-GR
- Recycled Copy Paper: Award 23078-GR, RS



Products Labelled with the GreenNY Icon



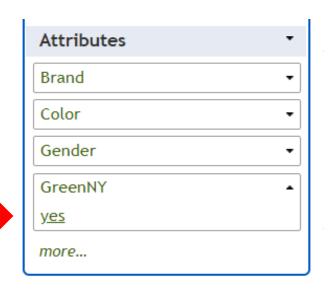






Searching the NYS eMarketplace for Products with the GreenNY Icon

- Once in the NYS eMarketplace:
 - Select 'View all Catalogs'
 - On the left-hand side, scroll down to 'Attributes'
 - Select 'yes' from the 'GreenNY' dropdown menu





Frequently Purchased Green Products



Categories of Frequently Purchased Green Products

- Environmentally preferable cleaning products
- Recycled content office paper
- Janitorial paper
- Computers Electronic Product Environmental Assessment Tool (EPEAT)
- Re-refined motor oil, hydraulic oil

Environmentally Preferable Cleaning Products



Environmentally Preferable Cleaning Products

- Group 39000, Award 23245
- New contract awarded on June 30, 2022
- Includes 4 different product categories

Environmentally Preferable Cleaning Products Programs, Equipment and Supplies (Statewide)	
Award Document 💆	Contract Period: June 30, 2022 - February 29, 2028
Contract Updates	Group: 39000 Award: 23245 (Replaces 22830)
Contractor Information	Use of Contracts: All State Agencies and Political Subdivisions
	Contact Person: Sefora Castrello Telephone: (518) 473-8098
Customer Service	Contract Issued: June 30, 2022 Contract Updated: September 30, 2022
Description: This multi-state contract covers certain cleaning supplies that comply with the requirement of Chapter 584 of the Laws of 2005 directing state agencies to use environmentally preferred cleaning products; State Education Law 409-I, and State Finance Law 163-b directing public and non-public elementary and secondary schools in New York state to use environmentally sensitive cleaning and maintenance products. It is also consistent with Executive Order 4 directing agencies to green their procurements.	

This Award has 15% MBE, 15% WBE and 6% SDVOB goal requirements.

Install Free Adobe Acrobat Reader for PDF Documents

The above PDF files are available in text by calling Customer Services at (518) 474-6717.

Find this contract award on the OGS website at https://online.ogs.ny.gov/purchase/spg/awards/3900023245CAN.HTM

Category 1

Cleaning, Facility Maintenance Chemicals, Disinfectants and Sanitizers

- Cleaning solutions: general purpose, carpet, floor, glass, bathroom, and specialty cleaners
- Degreasers
- Laundry and dish detergents
- Snowmelt products

All products offered are required to be certified by Green seal,

UL ECOLOGO or Safer Choice



Category 2

Janitorial Supplies, Equipment and Services

- Brooms, mops, sponges and rags
- Personal protective equipment (PPE)
- Floormats
- Batteries
- Waste containers and various trash can liners
- Hand/body/hair soaps and hand sanitizers
- All products offered must meet various environmentally preferable guidelines



Category 3

Disposable Janitorial Paper Products

- Toilet paper and facial tissues
- Paper towels and napkins
- Other paper products

All janitorial paper products (except feminine hygiene products) are required to meet minimum recycled-content guidelines and have either a Green Seal or UL ECOLOGO certification.



Category 4

Powered Janitorial Supplies, Equipment and Services

- Vacuum cleaners and
- Carpet extraction equipment
- Powered floor maintenance equipment
- Powered scrubbing machines
- Hands-free restroom equipment
- Products available under this category meet mandatory specifications, such as UL or ETL
- Products also meet various other qualifications based on the specific item being offered



We're Here to Help!

Have Questions?

Todd Kayser

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OGS Customer Services

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Environmentally Preferable Cleaning Products Award

Sefora Castrello, Contract Manager

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Questions?







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