



Chemicals

Introduction

Chemical minimization programs are an extremely important part of any sustainability program. The use of certain chemical constituents in products and materials can have significant health repercussions for building occupants, patients, staff, and the community. Please use this section of the application to highlight how the facility is addressing the use and minimization/elimination of certain **chemicals of concern**.

Policy

- 1.** Does the facility have **chemical or purchasing policies** that identify and avoid **specific chemicals of concern** contained in products that may be hazardous to human health and the environment?

Yes

- 1.a** Please attach chemical or purchasing policies that address **chemicals of concern**:

Multiple policies can be attached via **zip file**, if necessary.

- 1.b** Please check all **chemical and materials** included in the policy.

(Please note that other environmental attributes, such as water, energy, and packaging are evaluated in the EPP portion of this application.)

- ☐ Bisphenol A and its structural analogues
- ☐ CA Proposition 65 listed chemicals (carcinogens and reproductive toxicants)
- ☐ Flame retardants, including chlorinated, brominated, and phosphate-based flame retardants
- ☐ Formaldehyde
- ☐ Latex
- ☐ Lead
- ☐ Mercury
- ☐ Persistent, Bioaccumulative, and Toxic substances (PBTs)
- ☐ Perfluorinated compounds (PFAS)
- ☐ Phthalates (DEHP, BBP, DnHP, DIDP, DBP, DINP, and DiBP)
- ☐ Polystyrene
- ☐ Polyvinyl chloride, or PVC
- ☐ Triclocarban
- ☐ Triclosan
- ☐ Volatile organic compounds (VOCs)
- ☒ Other prioritized chemical constituents

- 1.b.a** Other prioritized chemical or material (#1):

- 1.b.b** Other prioritized chemical or material (#2):

- 1.b.c** Other prioritized chemical or material (#3):

- 2.** Does the facility contract with an outside vendor for environmental services (EVS)?

- ☒ Yes
☐ No

- 2.a** Please indicate the facility's contracted vendor for environmental services:

- ☐ Aramark
☐ Crothall
☐ Sodexo
☒ Other

2.a.a If other contracted vendor, please indicate which company:

Green Cleaning

3. Has the facility conducted an inventory **in the last 18 months** of all products used at the facility for cleaning and disinfection of surfaces?

- ☐ Yes
☐ No

Conducting an inventory can identify where the hospital may be using multiple products for the same purpose in different areas of the institution. Standardization of cleaning and disinfection products can lower costs and improve training effectiveness and safety.

4. Is the facility actively working on the **transition to third-party certified green cleaning chemicals**, in alignment with Practice Greenhealth's **Green Cleaning Goal**?

- ☐ Yes
☐ No

*The facility should not respond yes to this question unless it has specifically tasked a person/team with this product(s) transition. For more comprehensive guidance about selecting green cleaning chemicals, see Practice Greenhealth's [green cleaning resources](#).

5. Does the facility utilize any **Green Seal or UL ECOLOGO-certified** cleaning products?

Yes

Please document **ALL** dollars spent on cleaning chemicals at your organization during 2019. For each type of cleaning product your organization selects below, a table will appear in which you need to enter **two numbers**--a value for green chemical spend and a value for conventional chemical spend on that particular product category. The table will **autocalculate** your total cleaning chemical spend and your % green spend for each category. If you are using 100% green certified chemicals for a product category, you **MUST** enter a zero for conventional cleaning chemicals for that same category in the table. If you are using 100% conventional cleaning chemicals for a product category, you **MUST** enter a zero for green cleaning chemical spend. No points will be awarded for rows with **incomplete information**.

Practice Greenhealth defines a green cleaning chemical as a cleaning product that is certified under either a GreenSeal or UL Ecologo standard. If you are unsure if your product is certified under either a Green Seal or UL Ecologo standard, take a moment to confirm at:

Green Seal

UL Ecologo

If your facility is using a disinfectant or one-step disinfectant cleaner **instead** of one of the cleaning products indicated below, please place a check next to the product category and enter the disinfectant spend as conventional spend. In the U.S., EPA-registered hospital disinfectants are not allowed to be labeled or certified as green, because they are regulated as **antimicrobial pesticides under FIFRA**.

5.a Please select **ALL** cleaning product types used at the facility. (You must include both conventional and green-certified product categories.)

- ☒ General purpose (hard surface) cleaners
☒ Window/glass cleaners
☒ Carpet and upholstery cleaners
☒ Bathroom/restroom cleaners
☒ Floor cleaners
☒ Floor strippers
☒ Floor finishes
☒ Laundry soaps/cleaners
☒ Liquid dish soap
☒ Other
☒ We use a disinfectant **instead** of one of the above product categories

General purpose cleaners

Procurement type	\$ spent on green cleaning chemicals	\$ spent on conventional cleaners	Total (\$) Spent on Cleaning Products	% Green spend of total
General purpose cleaning chemicals	5.a.a <input type="text"/>	5.a.b <input type="text"/>	5.a.c <input type="text"/>	5.a.d <input type="text"/>

Window/glass cleaners

Procurement type	\$ spent on green cleaning chemicals	\$ spent on conventional cleaners	Total (\$) Spent on Cleaning Products	% Green spend of total
Window/glass cleaners	<u>5.a.e</u>	<u>5.a.f</u>	<u>5.a.g</u>	<u>5.a.h</u>
	<input type="text"/>	<input type="text"/>	0 <input type="text"/>	0 <input type="text"/>

Carpet and upholstery cleaners

Procurement type	\$ spent on green cleaning chemicals	\$ spent on conventional cleaners	Total (\$) Spent on Cleaning Products	% Green spend of total
Carpet cleaners	<u>5.a.i</u>	<u>5.a.j</u>	<u>5.a.k</u>	<u>5.a.l</u>
	<input type="text"/>	<input type="text"/>	0 <input type="text"/>	0 <input type="text"/>

Bathroom/restroom cleaners

Procurement type	\$ spent on green cleaning chemicals	\$ spent on conventional cleaners	Total (\$) Spent on Cleaning Products	% Green spend of total
Bathroom/restroom cleaners	<u>5.a.m</u>	<u>5.a.n</u>	<u>5.a.o</u>	<u>5.a.p</u>
	<input type="text"/>	<input type="text"/>	0 <input type="text"/>	0 <input type="text"/>

Floor cleaners

Procurement type	\$ spent on green cleaning chemicals	\$ spent on conventional cleaners	Total (\$) Spent on Cleaning Products	% Green spend of total
Floor cleaners	<u>5.a.q</u>	<u>5.a.r</u>	<u>5.a.s</u>	<u>5.a.t</u>
	<input type="text"/>	<input type="text"/>	0 <input type="text"/>	0 <input type="text"/>

Floor strippers

Procurement type	\$ spent on green cleaning chemicals	\$ spent on conventional cleaners	Total (\$) Spent on Cleaning Products	% Green spend of total
Floor strippers	<u>5.a.u</u>	<u>5.a.v</u>	<u>5.a.w</u>	<u>5.a.x</u>
	<input type="text"/>	<input type="text"/>	0 <input type="text"/>	0 <input type="text"/>

Floor finishes

Procurement type	\$ spent on green cleaning chemicals	\$ spent on conventional cleaners	Total (\$) Spent on Cleaning Products	% Green spend of total
Floor finishes	<u>5.a.y</u>	<u>5.a.z</u>	<u>5.a.aa</u>	<u>5.a.ab</u>
	<input type="text"/>	<input type="text"/>	0 <input type="text"/>	0 <input type="text"/>

Laundry soap

Procurement type	\$ spent on green cleaning chemicals	\$ spent on conventional cleaners	Total (\$) Spent on Cleaning Products	% Green spend of total
Laundry soap	<u>5.a.ac</u>	<u>5.a.ad</u>	<u>5.a.ae</u>	<u>5.a.af</u>
	<input type="text"/>	<input type="text"/>	0 <input type="text"/>	0 <input type="text"/>

Liquid dish soap

Procurement type	\$ spent on green cleaning chemicals	\$ spent on conventional cleaners	Total (\$) Spent on Cleaning Products	% Green spend of total
Liquid dish soap	<u>5.a.ag</u>	<u>5.a.ah</u>	<u>5.a.ai</u>	<u>5.a.aj</u>
	<input type="text"/>	<input type="text"/>	0 <input type="text"/>	0 <input type="text"/>

Other

Procurement type	\$ spent on green cleaning chemicals	\$ spent on conventional cleaners	Total (\$) Spent on Cleaning Products	% Green spend of total
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other	5.a.ak	5.a.al	5.a.am	5.a.an
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

5.a.ao Please describe which cleaning product categories have been replaced by a disinfectant or a one-step disinfectant cleaner:

For any product category that has been replaced by a disinfectant, please select the product category and enter disinfectant spend as conventional spend. See instructions above.

Percent Green Spend on Cleaning Products

The measured metric for green cleaning is the **Total Percent Green Spend on 5 Target Cleaning Chemicals** which includes: general purpose cleaners, window/glass cleaners, bathroom/restroom cleaners, carpet cleaners and floor cleaners. Points are still awarded for providing data for other cleaning chemical types but only these 5 categories of cleaning chemicals **will count toward the measured metric**. Please ensure the facility provides cleaning chemical spend (both green certified and conventional) for as many types of products as the facility is using--but at least these 5.

Total Percent Green Spend on 5 Target Cleaning Chemical Categories (This is the measured metric for green cleaning.)

Procurement type	Total \$ spent on 5 target green cleaning chemicals	Total \$ spent on conventional cleaners	Total (\$) spent on 5 target cleaning chemicals	% Green spend for 5 target cleaning chemicals
Total Spend	5.b	5.c	5.d	5.e
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

*The five target cleaning chemicals that are part of the measured metric for green cleaning are: **general purpose cleaners, bathroom/restroom cleaners, window/glass cleaners, carpet cleaners and floor cleaners**.

Overall Percent Green Spend on Cleaning Chemicals

Procurement type	Overall \$ spent on green cleaning chemicals	Overall \$ spent on conventional cleaners	Overall (\$) Spent on all Cleaning Products	Overall % Green spend
Total Spend	5.f	5.g	5.h	5.i
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

5.j Has the facility realized any **cost-savings** in 2019 from its use of third-party certified green cleaning chemicals or green cleaning practices?

- ☒ Yes
☐ No

5.j.a Please indicate any **tracked financial savings (in \$)** from the use of third-party certified green cleaning chemicals or green cleaning practices:

5.j.b Please describe how those financial savings were derived:

6. Has the facility replaced any cleaning product types with a chemical-free method, such as ionized water or ozone?

- ☒ Yes
☐ No

6.a What type of chemical-free process are you using? Please check all that apply:

- ☐ Ionized Water
☐ Ozone
☒ Other

6.a.a Please describe any other chemical-free processes in use:

7. Does the facility utilize **automatic scrubbing machines** that use **only water** for floor cleaning?

- ☒ Yes

☐ No

7.a Was your facility able to reduce or replace other cleaning chemical use as a result of automatic scrubbing machines?

☐ Yes

☐ No

8. Has Environmental Services collaborated with the **Infection Control Committee** to identify areas where use of **disinfectants can safely be minimized or eliminated**?

☐ Yes

☐ No

9. Does the facility utilize **ultraviolet germicidal irradiation (UVGI)** technology for surface disinfection in any area of the organization?

☒ Yes

☐ No

9.a Please select the clinical areas where this technology is used:

☐ All patient rooms

☐ Isolation rooms

☐ OR

☒ Other

9.a.a What other areas is this technology used in:

Safer Hand Hygiene

10. Is the facility actively working on the elimination of hand hygiene products that contain triclosan and triclocarban, in alignment with Practice Greenhealth's **Safer Hand Hygiene Goal**?

☐ Yes

☐ No

*The facility should not respond yes to this question unless it has specifically tasked a person/team with this product transition.

Hand hygiene products include any product used for hand hygiene, including liquid soap, bar soap, foam soap, hand sanitizer, hand rub, antiseptic, or lotion.

11. Has the facility **completely eliminated the purchase and use** of antimicrobial hand hygiene products **that contain triclosan or triclocarban** throughout the facility?

☒ Yes

☐ No

11.a Is the elimination of hand hygiene products containing triclosan or triclocarban encoded in an organizational policy?

☒ Yes

☐ No

11.a.a Please attach policy addressing elimination of hand hygiene products containing triclosan or triclocarban:

In Table B, please indicate the spend on hand hygiene products that do not contain triclosan or triclocarban, and the spend on conventional products that still contain either triclosan or triclocarban. Hand hygiene products include any product used for hand hygiene, including liquid soap, bar soap, foam soap, hand sanitizer, hand rub, antiseptic, or lotion.

Table B. Hand Hygiene Products

Dollars (\$) Spent	
Dollars spent on hand hygiene products that <u>do not contain triclosan or triclocarban</u>	12. <input type="text"/>
Dollars spent on hand hygiene products that contain triclosan or triclocarban	13. <input type="text"/>
Dollars spent on ALL hand hygiene products	14. <input type="text" value="0"/>
% Total hand hygiene spend on products that do not contain triclosan or triclocarban	15. <input type="text"/>

16. Has the facility eliminated the purchase and use of hand hygiene products that contain any antimicrobial in **non-clinical areas**?

- ☐ Yes
☐ No

Sterilization and Disinfection

17. Does the facility utilize **medical instrument cleaners** that are certified by **EPA's Safer Choice Program** (formerly Design for the Environment- DfE)?

- ☐ Yes
☐ No

While GreenSeal and UL ECOLOGO are the preferred certifications for surface cleaning chemicals, cleaning of medical instrumentation is not covered by these certification programs. EPA's Safer Choice program certifies medical instrument cleaners.

18. Has the facility eliminated the use of the high-level disinfectant **glutaraldehyde** and moved to safer alternatives (as defined by the **ICRA process** involving Infection Prevention & Control and Employee Health)?

- ☒ Yes
☐ No

An **Infection Control Risk Assessment (ICRA)** is a multidisciplinary, organizational, documented process that after considering the facility's patient population and program The **ICRA process** focuses on reduction of risk from infection, acts through phases of facility planning, design, construction, renovation, facility maintenance, and coordinates and weighs knowledge about infection, infectious agents, and care environment, permitting the organization to anticipate potential impact.

18.a What alternatives to glutaraldehyde does the facility use?

- ☐ OPA (ASP Cidex OPA, Metrex Metricide OPA)
☐ Hydrogen peroxide
☐ Peracetic acid
☒ Other

18.a.a Please describe other alternatives to glutaraldehyde being used:

19. Has the facility **eliminated** the use of the sterilant **ethylene oxide (EtO)** onsite ?

- ☒ Yes
☐ No

19.a What alternatives to EtO does the facility use?

- ☐ Steam Sterilization
☐ Ozone plasma
☐ Low temperature hydrogen peroxide gas plasma
☐ Peracetic Acid
☒ Other

19.a.a Please describe other alternatives to EtO being utilized:

Integrated Pest Management

Integrated Pest Management (IPM) is an approach to managing pests that protects health and the environment. Learn more at: **IPM Frequently Asked Questions**

20. Has the facility **reduced or eliminated** the use of **chemical pesticides** by implementing an IPM program?

- ☒ Yes
☐ No

20.a Please describe IPM program:

21. Has the facility developed a **written IPM plan/policy** for the facility that includes attention to both indoor and outdoor (buildings and grounds) pest habitats and issues, which focuses on prevention as the primary means of pest management? (see **checklist** for prevention strategies)

- ☒ Yes
☐ No

21.a Please attach IPM plan or policy:

22. Does the facility **require EVS** or other relevant staff to be **trained in IPM**? (In particular, are staff trained to monitor and prevent pest problems by spotting conditions that are conducive to pest infestations?)

- ☐ Yes
☐ No

PVC and DEHP

23. Is the facility actively working to reduce the purchase of medical products containing **PVC** and **DEHP**, in alignment with Practice Greenhealth's **PVC and DEHP Reduction Goal**?

- ☒ Yes
☐ No

*The facility should not respond yes to this question unless it has specifically tasked a person/team with this product transition.

23.a Has the facility encoded this commitment in policy, program, guideline, or purchasing specifications?

- ☒ Yes
☐ No

23.a.a Please attach:

24. Has the facility eliminated both **PVC** and **DEHP** from at least **two** product lines?

Yes

24.a Please select all product lines that are **both PVC** and **DEHP**-free:

- ☐ Breast Pumps and accessories
☐ Enteral Nutrition Products
☐ Enteral Tubes
☐ General Urological
☐ Gloves
☐ Parenteral Infusion Devices and Sets
☐ Respiratory Therapy Products
☐ Vascular Catheters
☒ Other

For more information, see the Practice Greenhealth **PVC and DEHP Elimination Goal** guidance.

24.a.a Please list other **PVC** and **DEHP**-free product lines:

Healthy Interiors

25. Is the facility actively working to purchase furnishings and furniture **that eliminate the use of all** of the following target chemicals: flame retardants, formaldehyde, perfluorinated compounds, **PVC** (vinyl) and antimicrobials, in alignment with Practice Greenhealth's **Healthy Interiors Goal**?

Yes

*The facility should not respond yes to this question unless it has specifically tasked a person/team with these product transitions.

25.a Please indicate which categories of furnishings and furniture were purchased in 2019 (both **conventional** and **green**):

- ☐ Beds, mattresses, and pads (table pads, stretcher pads, pediatric pads)
☐ Built-in and modular casework
☐ Cubicle/privacy curtains
☐ Panels and partitions
☐ Seating (chairs, stools, sofas, benches, recliners, loungers, etc.)
☐ Storage units and shelving (cabinets, filing cabinets, dressers, drawers, bookshelves, built-in shelves, etc.)
☐ Systems (multi-component furniture systems)
☐ Wall coverings
☐ Window coverings

☐ Work surfaces (tables, desks, overbed tables, etc.)

26. Please list the facility's primary bed and mattress supplier(s):

Percent Spend on Healthy Interiors

Table C. Healthy Interiors

Healthy Interiors % Spend	Dollars (\$) Spent
Dollars spent on furnishings and furniture (including medical and non-medical) that <u>eliminate all five target chemicals</u>	<u>27.</u> <input type="text"/>
Dollars spent on conventional furnishings and furniture (including medical and non-medical) that do not avoid all target chemicals of concern	<u>28.</u> <input type="text"/>
Total dollars spend on furnishings and furniture	<u>29.</u> 0 <input type="text"/>
% Spend on Healthy Interiors	<u>30.</u> 0 <input type="text"/>

31. Is the facility actively working to select and purchase **healthier flooring**, in alignment with Practice Greenhealth's **Healthy Flooring Goal**?

- ☐ Yes
☐ No

Mercury

32. Has the facility won the **Making Medicine Mercury Free Award (MMMF)**?

- ☐ Yes
☒ No

The following questions must be answered in order to show that mercury has been addressed at some level at the facility to be considered for the Partner for Change Award. However, this is NOT the Making Medicine Mercury Free (MMMF) Award application. To apply for MMMF, go to your facility Dashboard, click "Start an New Application" and select Making Medicine Mercury Free under "Application Type."

For a list of mercury-containing items in a hospital setting and guidelines to identification and elimination, see Practice Greenhealth's:

Mercury Elimination Strategies

Note to Applicants: all requested policies in this section must be attached.

32.d Has the facility established a **mercury-free purchasing policy** (a stand-alone policy or included in a broader policy with other constituents of concern)?

- ☒ Yes
☐ No

32.d.a Please attach mercury-free purchasing policy:

32.e Has the facility established **protocols and written procedures for safe handling** of any mercury remaining onsite?

- ☒ Yes
☐ No

32.e.a Please attach written procedures for safe handling of mercury:

32.f Has the facility included proper **mercury disposal language in demolition contract** templates?

- ☒ Yes
☐ No

32.f.a Please attach demolition contract mercury disposal contract language:

32.g Has the facility included mercury-free language in **building and renovation contract** templates?

- ☒ Yes
☐ No

32.g.a Please attach mercury free building and renovation contract language:

Mercury in the Clinical Arena

32.h Has the facility **inventoried** (and labelled where possible) all mercury devices/sources within the organization and have a **plan in place** to substitute non-mercury devices?

- ☒ Yes
☐ No

32.h.a Please attach inventory of mercury devices/sources:

32.i Has the facility **replaced all clinical thermometers with mercury-free** patient thermometers?

- ☒ Yes
☐ No

32.i.a What brand(s) do you use?

32.j Has the facility **eliminated** the use of mercury-containing **blood pressure devices** (sphygmomanometers)?

- ☐ Yes
☐ No

32.k Has the facility **eliminated** the use of mercury-containing **clinical devices** (e.g., bougies, miller-abbott tubes, cantor tubes, dilators)?

- ☐ Yes
☐ No

32.l Has the facility purchased mercury amalgam separators for installation at all **dental chairs**?

- ☐ Yes
☐ No
☐ No Dental Chairs

Mercury in the Laboratory

32.m The facility specifies and purchases, where possible, these **laboratory items mercury-free**:

- ☐ Thermometers
☐ Solutions
☐ Equipment

32.n Has the applicant spoken with the lab manager to **inventory mercury-containing laboratory chemicals** ?

- ☒ Yes
☐ No

32.n.a Lab Manager **Name**:

32.n.b Lab Manager **Title**:

32.n.c **Date** of communication:

Please share these resources with your lab manager:

For a list of mercury-containing items in a hospital setting and guidelines to identification and elimination, see Practice Greenhealth's:

Mercury Elimination Strategies.

32.o Has the laboratory eliminated the use of mercury-containing **B5 fixative**?

- ☒ Yes

☐ No

32.o.a B5 replacement:

32.p Has the laboratory eliminated the use of mercury-containing **Zenkers solution**?

☒ Yes

☐ No

32.p.a Zenkers replacement:

32.q Has the facility identified other **product substitutions** in the lab that eliminate mercury?

☒ Yes

☐ No

Please indicate the name of the new product(s) and the name of the replaced mercury-containing product(s) in Table C.

Table D. Mercury-free Product Substitutions

Name of mercury-free product	Name of product with mercury (replaced)
32.q.a <input type="text"/>	32.q.b <input type="text"/>
32.q.c <input type="text"/>	32.q.d <input type="text"/>
32.q.e <input type="text"/>	32.q.f <input type="text"/>

Other Chemicals Program Successes

Please describe below any other innovative techniques, initiatives, or success stories (not already described above) related to the reduction of **chemicals of concern** in the facility in 2019. Please feel free to provide commentary and/or attach supporting files.

33. Chemicals of Concern Success 1: Please describe

34. Please attach any additional documentation (optional) for **Chemicals of Concern** Success 1:

35. Chemicals of Concern Success 2: Please describe

36. Please attach any additional documentation (optional) for **Chemicals of Concern** Success 2:

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