Effective cleaning and disinfection is doesn’t have to harm our health.
What are some issues with common conventional disinfectants?

They can pose health risks by emitting air pollutants and leaving behind toxic residues.

Many of these chemicals can contribute to asthma and skin irritation.
What are some issues with common conventional disinfectants?

They can pose health risks by emitting air pollutants and leaving behind toxic residues.

Example: using bleach can emit chemicals such as carbon tetrachloride, chloroform and several other halogenated volatile organic compounds that can trigger and aggravate asthma.
What are some issues with common conventional disinfectants?

They can pose health risks by emitting air pollutants and leaving behind toxic residues.

Example: some quaternary ammonium compounds have also been linked with asthma and skin irritation; they have been found to accumulate in dust, where they can persist.
How can we find healthier/safer cleaners and disinfectants?
Look for certifications that signify a product is safer
Check EPA’s List N for products effective against COVID-19

https://www.epa.gov/pesticide-registration/list-n-advanced-search-page-disinfectants-coronavirus-covid-19
Look for safer active ingredients

In disinfectants, look for active ingredients such as:

- Alcohol (ethanol or isopropanol)
- Hydrogen peroxide
- L-Lactic acid
- Citric acid

Hillyard’s Suprox 39 solution and Clorox’s hydrogen peroxide wipes are part of the cleaning/disinfecting regime at our facility.
Determining if a product on List N is a safer option

Products with safer ingredients on the EPA's List N of products registered for use against SARS-CoV-2 include:

- Clorox Commercial Solutions Hydrogen Peroxide Disinfecting Cleaner, Disinfectant, and Wipes
- Diversey's Oxivir TB Ready-To-Use Liquid, Wipes, Five 16, and Diversey's Alpha HP Multi-Surface Disinfectant Cleaner
- Lysol Disinfecting Bathroom Cleaner
- GOJO Industries PURELL Multi-Surface Disinfecting Cleaner, Disinfectant, Wipes, and Surface Disinfectant

https://www.ewg.org/guides/cleaners/

https://www.sfapproved.org/disinfectants
Green products do not typically cost more

Is the total overall cost of green cleaning products, including all products and labor, more than, less than, or about the same when compared to traditional counterparts?

<table>
<thead>
<tr>
<th>Answer</th>
<th>Count</th>
<th>Percent</th>
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</thead>
<tbody>
<tr>
<td>1. More than 20% more</td>
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<td>4.32%</td>
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<tr>
<td>2. 10% to 20% more</td>
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<td>13.29%</td>
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<td>3. 0% to 10% more</td>
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<td>4. The same cost</td>
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<td>6. 10% to 20% savings</td>
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Develop a procurement plan and phase-out of old products where necessary

Procurement resources/examples

https://www.blm.gov/download/file/fid/19970


http://www.responsiblepurchasing.org/purchasing_guides/cleaners/purchasing_guide.pdf