Green Cleaning, Clean Living



Learning objectives





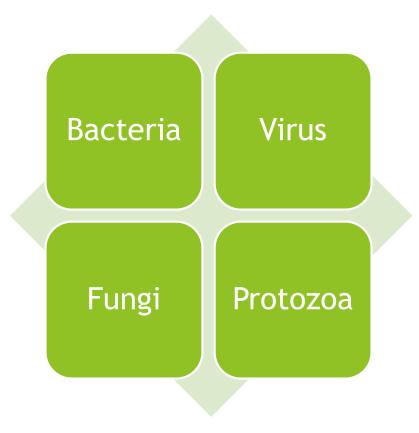


Understand

sanitizing and disinfecting

What are germs?

- Germs are tiny organisms, or living things, that can cause disease
- There are 4 main types of germs



How are germs spread

- Our hands become contaminated when we touch different surfaces.
- Germs enter your body when:
 - We touch our eyes, nose or mouth with our dirty hands
 - We eat without washing our hands first







What about antibacterial soap?

- The health department recommends against using an antibacterial soap, both for cleaning or for washing hands
- Refillable foaming soap dispenser 5 parts water and 1 part liquid Castile soap



A fragrance-free castile soap is safer for you and the environment.

Cleaning, sanitizing and disinfecting

CLEANING is the process of removing dirt, debris and up to 99% of germs.

Sanitizing kills bacteria on surfaces using chemicals. It is not intended to kill viruses.

Disinfecting kills viruses and bacteria on surfaces using chemicals.

Cleaning - the First Step

- Removes dirt and organic matter that contain and protect germs.
- Breaks down oils and allows dirt, contaminants and germs to be more easily removed.
- Store bought cleaners are not necessarily more effective than homemade soapy water solutions.

In most areas of your home, cleaning is enough.

Sanitizing

- Food prep surfaces, cutting boards and utensils.
- Different foods can introduce harmful bacteria during food preparation that can lead to foodborne illness.
- Automatic dishwashers can sanitize for you.





High risk areas



Disinfectants

What are the health concerns:

- Hazardous chemicals are common ingredients in disinfecting products.
- People using these products and people in the spaces where they are used, can get sick or develop illnesses, including asthma.
- Some ingredients can interfere with your hormonal system and reproductive health.
- Some ingredients can also damage skin or other body systems.



How to disinfectant

- Apply to a clean surface.
 - Disinfectant is not effective on dirty surfaces and does not remove germs.
- Follow label instructions for safe use, concentration and contact time.
 - Contact time is the time needed to deactivate germs at given concentrations.
- The frequency depends on the environment.

Overuse of disinfectants does not provide any additional protection and can expose you to harmful chemicals.

Using disinfectants safely

- Do not spray, fog, fumigate or mist chemicals into the air.
 - Aerosolizing chemicals is not recommended and can be harmful to human health.
 - The CDC recommends using liquid products and cloths.



Finding Safer Disinfectants

Hydrogen peroxide

- Not the same as hydrogen peroxide in the first aid aisle.
- Must be registered with the EPA for surface disinfecting. Check the label.
- Search for hydrogen peroxide products at https://www.ewg.org/guides/cleaners/

Does this look familiar?



Cleaning Label Signal Words

Highest hazard	DANGER, POISON	ULOR FATAL IF SWALLOWED OR N SEVERE BURNS TO EVES AND SK
Less hazardous	CAUTION, WARNING	WARNING: EYE IR
Safer	You don't see: DANGER, POISON CAUTION or WARNING	MULTI-PU

Non-Toxic - does NOT mean "safe," it only means it does not qualify for signal words.

Make Sure To Read The Label

reus (Staph). Salmonella).

aruginosa



TO OPEN: Place bottle on flat, steady surface. Press down on cap while turning in a counter-clockwise direction. Do not squeeze bottle. To LOCK: Turn cap onto threads in a clockwise direction until it no longer turns. Then press down on cap and turn to seal.

DIRECTIONS FOR USE: IMPORTANT: Read entire label before using. Do not mix with other cleaners or chemical drain openers. Keep hands and face away from drain while using Drain Opener.

Goen carefully. Do not squeeze bottle. Pour slowly. Do not splash in eges, on skin or clothing. Never use a plunger or pressurized drain opener during or after using this product. Avoid contact with aluminum. When pouring over brass fixtures, rinse brass with water immediately afterwards. Keep children away from sinks containing Drain Opener.

CLOGGED DRAINS: Use 1/2 bottle. Allow to work 30 minutes. Flush with hot water when drain clears. Repeat if necessary. For tough jobs, let stand overnight before flushing with hot water

LUGGISH DRAINS: Use 1/3 bottle. Allow to stand 30 minutes then flush with warm water. Repeat cessary.

VENT PRO EMS WITH REGULAR USAGE: To keep drains clear, use 1/4 bottle weekly. Let stand nutes. Fluct with warm water.

ION: Clean up all spillage immediately. Do not reuse empty container container and replace cap before discarding.

-DANGER:

OUT OF REACH OF CHILDREN. Contains caustic soda, sodium silicate and in hypochlorite bleach. Causes severe burns on contact. Injures eyes and us membranes on contact. Avoid contact with skin, eyes, clothing. Do not nternally. Harmful or fatal when swallowed. Rinse any spills immediately with of water. Do not use with ammonia, toilet bowl cleaners or other drain ers as splashing or the release of hazardous gases may occur.

RGENCY TREATMENT EYES: Immediately flush with water for at least 15 minutes. medical attention immediately.

ERNAL: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of ter or milk. Seek medical attention immediately.

(IN: Flush with water for at least 15 minutes. If irritation persists, seek medical

Western Family Liquid Drain Opener is not manufactured or distributed by S. C. Johnson & Son, Inc., distributor of Drano®

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KEEP OUT OF REACH OF CHILDREN VING: Contents under pressure.

....0.1%

.99.8%

100.0%

Do not puncture. Do not use or store near heat or open fiame. Exposure to temperatures above 130°F may cause bursting. Never throw container into fire or incinerator. See back panel for additional precautionary statements.





concern posed by exposure to the ingredients in this product - not the product

itself - compared to other product formulations. The ratings reflect potential

health hazards but do not account for the level of exposure or individual

susceptibility, factors which determine actual health risks, if any.

EWG scientists have rated more than 160,000 food, cosmetics and cleaning products based on the health, safety and transparency of their ingredients. Each product is given a rating on a scale of 1 to 10, or A to

What's really in those cleaners?





Finding Safer Products

- Buy products certified as safer for human health and the environment by an independent third-party agency
- Look for Safer Choice, Green Seal©, Ecologo©, and Design for the Environment (DfE) labels on products









Cleaning products do not have to list ingredients Manufacturers do not have to prove that they are safe.

Green Washing labels are unregulated by the government.

products labeled "green" often have as many toxic chemicals as conventional cleaning products.

Disinfectants only have to list the active ingredient that kills germs.

Look at the label to choose safer cleaners

Safest Somewhat harmful





DANGER WARNING POISON

Avoid

Products certified to have safe ingredients or products with no signal words

Products labeled CAUTION should be used with care

Products labeled DANGER, WARNING or POISON are the most harmful



Cleaner	Find it in	Use it to	It replaces
baking soda (sodium bicarbonate)	grocery store baking ingredients aisle	scrub sinks, pots and stains, polish sterling or silver	abrasive cleaners like Ajax, silver polishes
white distilled vinegar	grocery store condiments aisle	clean glass, remove soap scum, grease and mineral deposits	window cleaners like Windex, drain treatments like Drano
hydrogen peroxide, 3 percent	pharmacy or grocery store first aid aisle	brightens whites in the laundry, disinfect surfaces	chlorine bleach
plant-based liquid soap (Castile soap)	grocery store natural products section	mop floors, wash clothes, clean marble counters	laundry detergents, floor care products
washing soda (sodium carbonate)	grocery store laundry supplies aisle	cut oven grease, remove wine stains, boost cleaning power of laundry soap	oven cleaners, all- purpose cleaners like Oxi-Clean

Green Cleaning Kit

►All-Purpose Cleaner

Safer Scrubber

► Window Cleaner



WINDOW CIFA

ALL PURPOSE CLEANER

All Purpose Cleaner

Ingredients

- 3 cups hot water
- 1 teaspoon washing soda
- 2 tablespoons vegetable oil soap
- 1 spray bottle

Cost

Tap Water = \$0.01

Super Washing Soda = \$0.01

Soap = \$0.40

Total = \$0.42

Add water and soda to a spray bottle and shake. Add soap and mix gently. Spray and wipe clean.

Good for countertops, floors, walls woodwork, appliances, etc.



Window Cleaner

Ingredients

3 cups hot water

1/2 cup white vinegar

¹/₂ cup rubbing alcohol

Cost Tap Water = \$0.01 Vinegar = \$0.08 Alcohol = \$0.64

<u>Total = \$0.38</u>

Add ingredients to a spray bottle. Shake gently to combine.

Apply to surface and gently wipe with a cloth or squeegee.



Safer Scrubber

Ingredients

- 1/2 cup warm water
- 1 2/3 cup baking soda (approx.)
- 1/2 cup vegetable oil soap

Cost

Tap Water = \$0.01

Baking Soda = \$0.03

Soap = \$0.60

▶ <u>Total = \$0.70</u>

In an airtight, screw-top container, add water and soap. Stir in baking soda until mixture forms a paste.

Good for sinks, tubs, showers, etc.



Cleaning tools



Sponges

- Not recommended
- Harbor bacteria and are not easily cleaned.
- Should be kept away from raw meat.
- Need to be replaced regularly.

	(Calendaria)	
E		

Microfiber clothes

- Releases microplastics into waterways and oceans when washed.
- Negatively impacts marine life and the environment.

Recommended: cotton cloth, old t-shirts, scouring pad, dish brush

Resources

- Clark County Household Hazardous Waste Information
 - https://www.clark.wa.gov/publichealth/household-hazardous-waste
- OR Metro
 - https://www.oregonmetro.gov/toolsliving/healthy-home/green-cleaning
- Environmental Working Group Home cleaning products database
 - https://www.ewg.org/guides/cleaners/
- Toxics Free Future
 - https://toxicfreefuture.org/healthyliving/healthy-homes/
- HealthData.gov
 - https://healthdata.gov/dataset/householdproducts-database 31

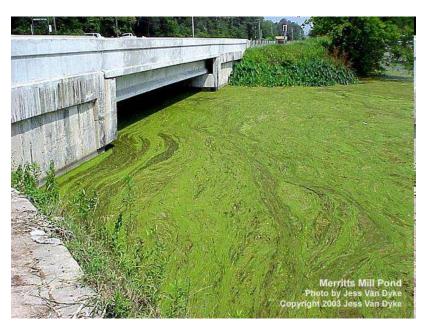
Other Questions?

https://clarkcountycomposts.org/virtual-learning#green-faq



info@clarkcountycomposts.org 564.397.7333 www.clarkcountycomposts.org

It's not only about us!





Creating a scent-free environment

White Vinegar

- Neutralizes odors.
- Can be used on carpet, shoes, trash cans, diaper pails.
- Fill a spray bottle with white vinegar and spray as needed.
- Can also be applied with a cloth.

DIY Air deodorizer

- 1/4 cup isopropyl alcohol
- 1 cup water
- Optional: Approximately 20 drops of a combination of 1-3 essential oils of your choice.
 - Read the label
 - Ensure it is safe to inhale

Properly dispose of unused cleaning products

Central Transfer and	West Van Materials	Washougal
Recycling Center	Recovery Center	Transfer Station
11034 NE 117th Avenue	6601 NW Old Lower River Rd	4020 S. Grant Street
Vancouver, WA	Vancouver, WA	Washougal, WA
(360) 256-8482	(360) 737-1727	(360) 835-2500

Friday, Saturday, Sunday 8 a.m. to 4 p.m. Friday & Saturday 8 a.m. to 4 p.m. First & third Saturday 8 a.m. to 4 p.m.







