Great Swamp
Watershed
Association

WATERKEEPER® ALLIANCE
AFFILIATE

ENVIRONMENTALLY SOUND CLEANING PRODUCTS

Hazel England

Director of outreach and Education

Great Swamp Watershed Association

- As an organization, we start and end with a focus on healthy water and land.

-Where does our water come from?

-Where does it go after we use it…

-What happens to it along the way…

It's all about the River!

Great Swamp Watershed Association

Our watershed Friendly living programs aim to help homeowners to change their practices and behaviors to make a difference for the health of the watershed.

our Watershed Friendly Living Program has more information

https://www.greatswamp.org/watershed-friendly-living/

Take a look… What's under your kitchen sink?

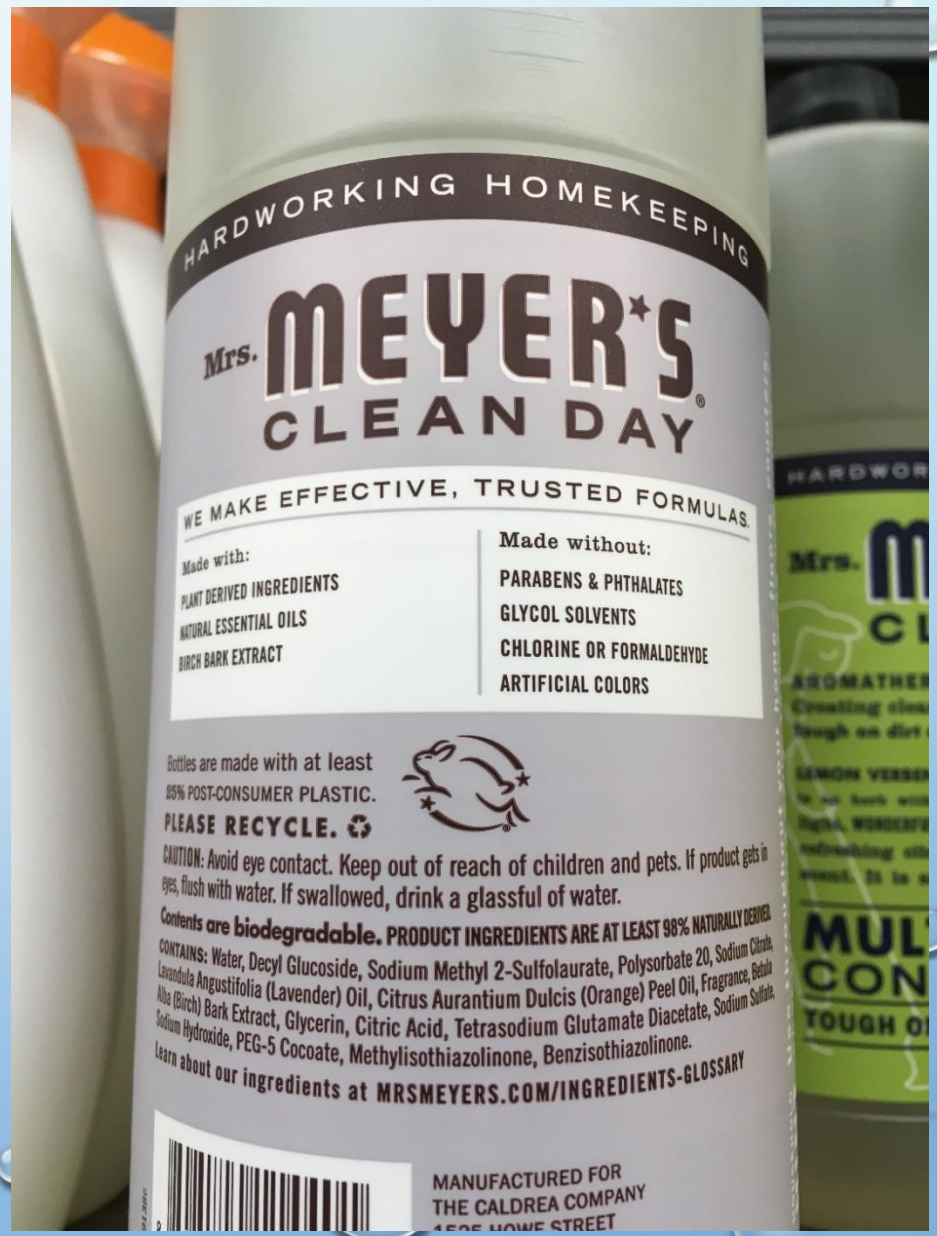
A word about plastic bottles…

Why is GSWA concerned about what your cleaning bottles are made of?

Look for these labels

What's inside your bottle? How do you know?


glade
HOW TO USE:
Shake well before each use. Hold can upright; press button and spray in side to side sweeping motion.
CAUTION: Do not use near fire, flame or pilot light. Do not set on stove or radiator or keep where temperatures exceed 120°F, as container may burst. Do not puncture or incinerate. Store in a cool, dry place.
KEEP OUT OF THE REACH OF CHILDREN AND PETS.
WARNING: Use only as directed. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Help stop inhalation abuse. For more information visit www.inhalant.org.
Environmental Facts
• Steel can is recyclable
• Filling process uses more than 30% renewable energy
INGREDIENTS: Fragrance, Solubilizers, Emulsifier, Stabilizer, Corrosion Inhibitor, Propellants. SCJ Formula # 35*4593
learn more at: www.scjohnson.com
A family company since 1886. Fisk Johnson
QUESTIONS?/¿PREGUNTAS?
Need recycling information?
¿Necesita información sobre reciclaje?
Call/Llame al 800-558-5252 or write/o escriba a Helen Johnson.
©2014 S.C. Johnson & Son, Inc.
Racine, WI 53403-2236 U.S.A.
INSTRUCCIONES DE USO:
Agite bien antes de usar. Sostenga la lata en posición vertical, presione el botón y rocíe con un movimiento de lado a lado.
PRECAUCIÓN: No se debe utilizar cerca del fuego, de llamas o de pilotos de gas. No se debe colocar sobre la cocina, la calefacción, ni almacenar a temperaturas que sobrepasen los 120°F, ya que la lata puede explotar. No se debe perforar ni incinerar. Almacenar en un lugar fresco y seco.
MANTENER FUERA DEL ALCANCE DE LOS NIÑOS Y LAS MASCOTAS.
PRECAUCIÓN: Use este producto solamente según las instrucciones. Si se utiliza indebidamente con el propósito de concentrar e inhalar el contenido, puede ocasionar efectos perjudiciales o fatales. Contribuya a impedir la inhalación indebida. Para más información, visite www.inhalant.org.
Contains no CFCs which deplete the ozone layer. No contiene CFC que destruyen la capa de ozono.
Steel can, please recycle when empty. Envase de acero, favor de reciclar cuando esté vacío.
Johnson A Family Company
UP TO 7 HOURS OF FRESHNESS
glade spray
eliminates odors & freshens the air
HAWAIIAN BREEZE®
BRISA HAWAIANA®
8 OZ (227 g)
CAUTION: CONTENTS UNDER
READ BACK PANEL


HARDWORKING HOMEKEEPING
Mrs. MEYER'S CLEAN DAY
WE MAKE EFFECTIVE, TRUSTED FORMULAS.
Made with:
PLANT DERIVED INGREDIENTS
NATURAL ESSENTIAL OILS
BIRCH BARK EXTRACT
Made without:
PARABENS & PHTHALATES
GLYCOL SOLVENTS
CHLORINE OR FORMALDEHYDE
ARTIFICIAL COLORS
Bottles are made with at least 25% POST-CONSUMER PLASTIC.
PLEASE RECYCLE.
CAUTION: Avoid eye contact. Keep out of reach of children and pets. If product gets in eyes, flush with water. If swallowed, drink a glassful of water.
Contents are biodegradable. PRODUCT INGREDIENTS ARE AT LEAST 98% NATURALLY DERIVED.
CONTAINS: Water, Decyl Glucoside, Sodium Methyl 2-Sulfolaurate, Polysorbate 20, Sodium Citrate, Lavandula Angustifolia (Lavender) Oil, Citrus Aurantium Dulcis (Orange) Peel Oil, Fragrance, Betula Alba (Birch) Bark Extract, Glycerin, Citric Acid, Tetrasodium Glutamate Diacetate, Sodium Sulfate, Sodium Hydroxide, PEG-5 Cocoate, Methylisothiazolinone, Benzisothiazolinone.
Learn about our ingredients at MRSMEYERS.COM/INGREDIENTS-GLOSSARY
MANUFACTURED FOR THE CALDREA COMPANY

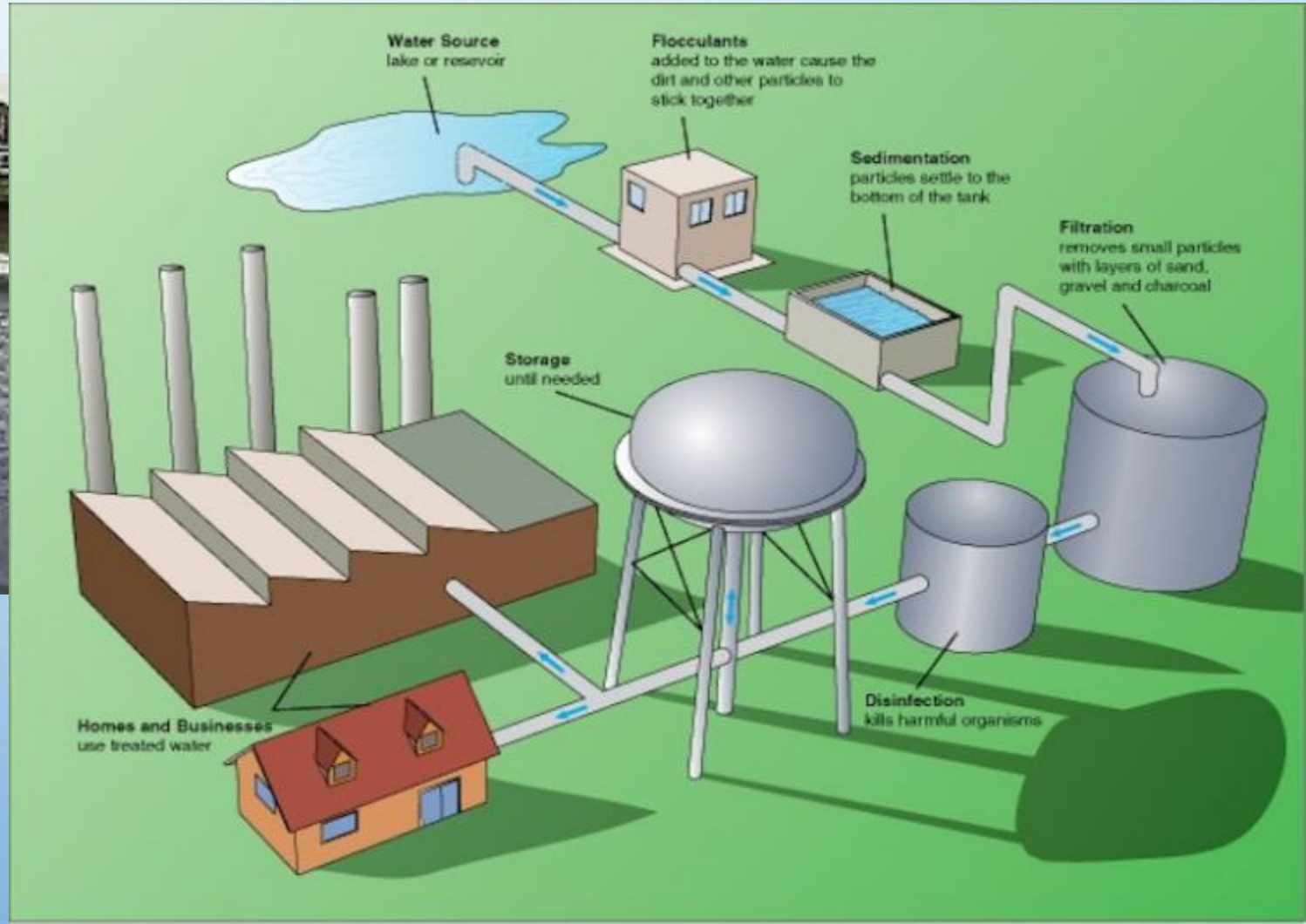
Is the product safe? How can you tell?

http://www.ecolabelindex.com/ecolabels/

What are the environmental problems cleaners pose?

- TOXIC FOR HUMANS AND ECOSYSTEM
- PERSISTENT IN ENVIRONMENT
- UNINTENDED HEALTH IMPACTS

How can cleaning products get into the Water?



DEGREASERS

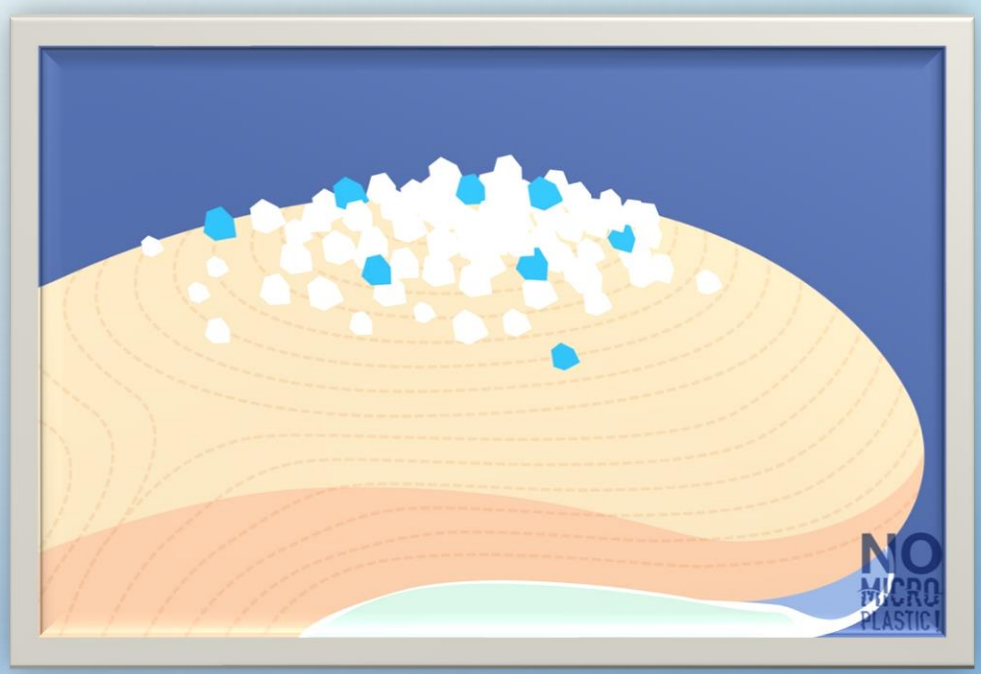
- Break down oils and fats
- Household cleaners are usually a combo of degreasing agents, 'builders' and things like antibacterial compounds or enzymes

SURFACTANTS

- Lower surface tension between two liquids or a liquid and a solid
- Usually act as detergents, wetting agents by breaking up fats into tiny drops and dispersing.
- Whitening agents, optical brighteners, enzymes and perfumes are typically added as well

ABRASIVES

- Microplastics
- Metal particles
- Minerals such as quartz, feldspar, silica or calcite



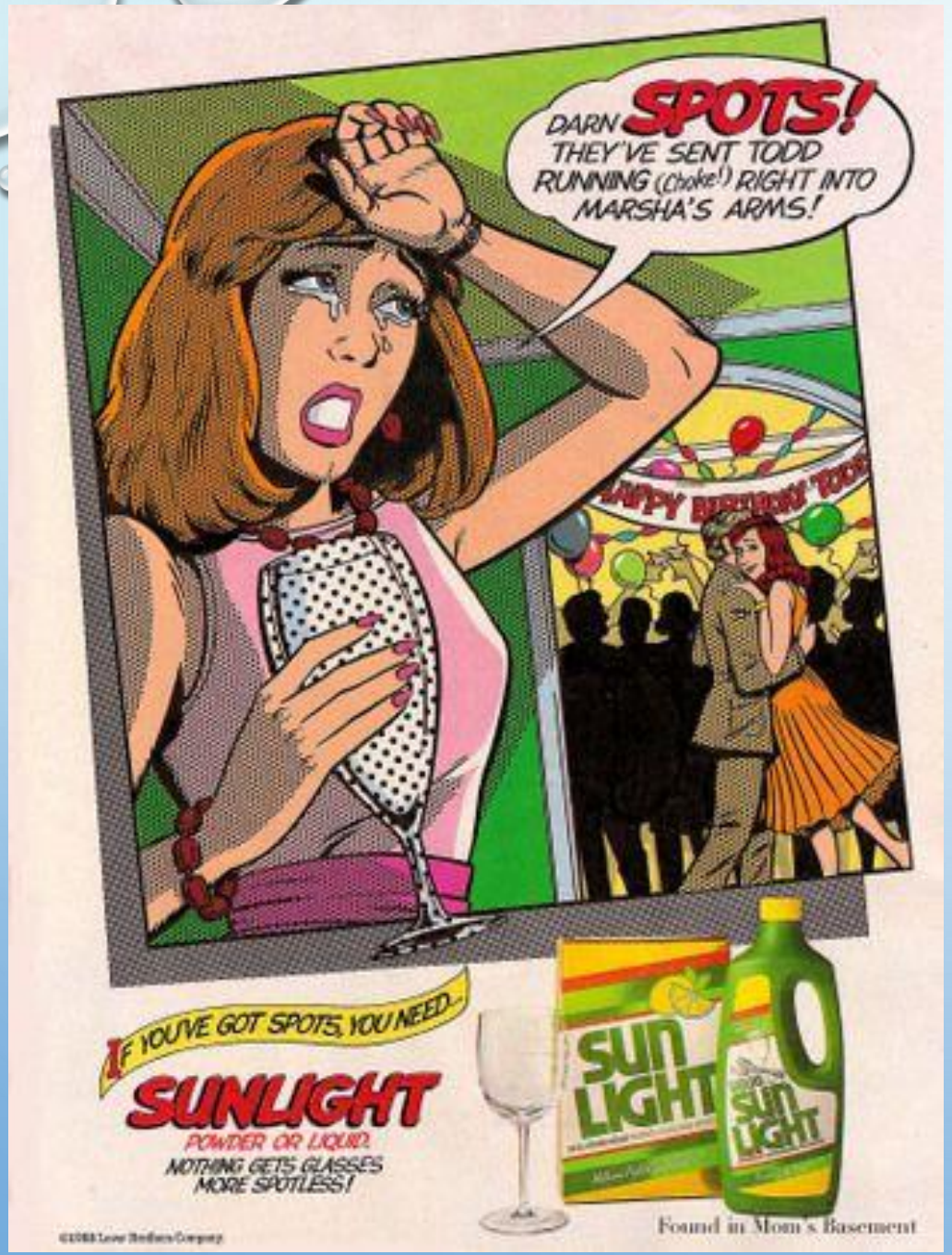
DISINFECTANTS AND ANTIMICROBIALS

- Contain antimicrobial agents such as pine oil, sodium hypochlorite, quartenary ammonium compounds or phenols
- Bleach and triclosan are other chemicals often added to cleaners for this effect
- Most contain surfactants and builders to help remove soil as well as killing germs.
- May 2002 study of contaminants in stream water -66% contained disinfectants
- Persistent

BLEACHES

- Often contain harsh fragrances to cover the bleaching agent
- Bleaches usually contain sodium hypochlorite or hydrogen peroxide if they are non-chlorine
- Troublesome combinations

Ammonia +Bleach =

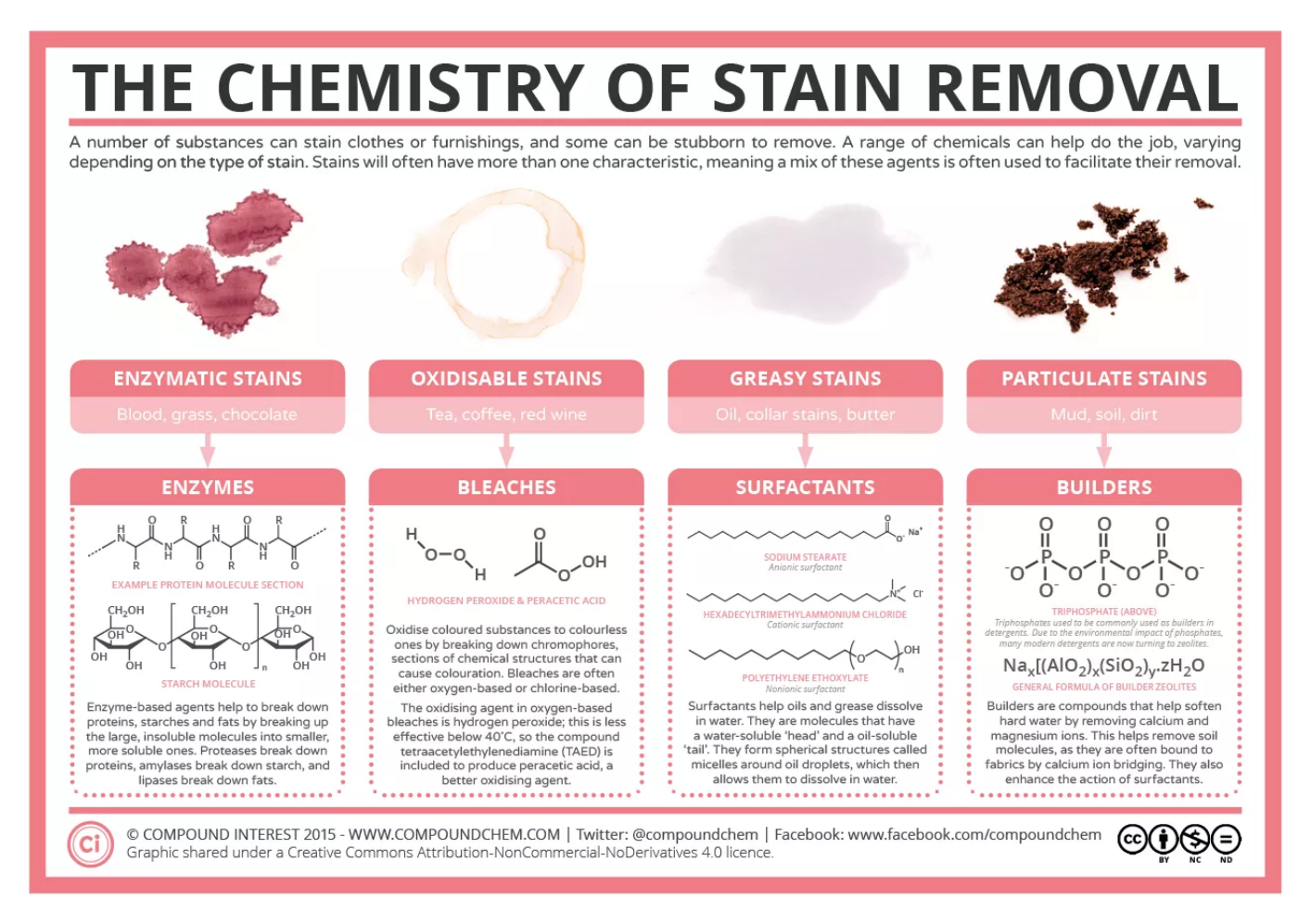


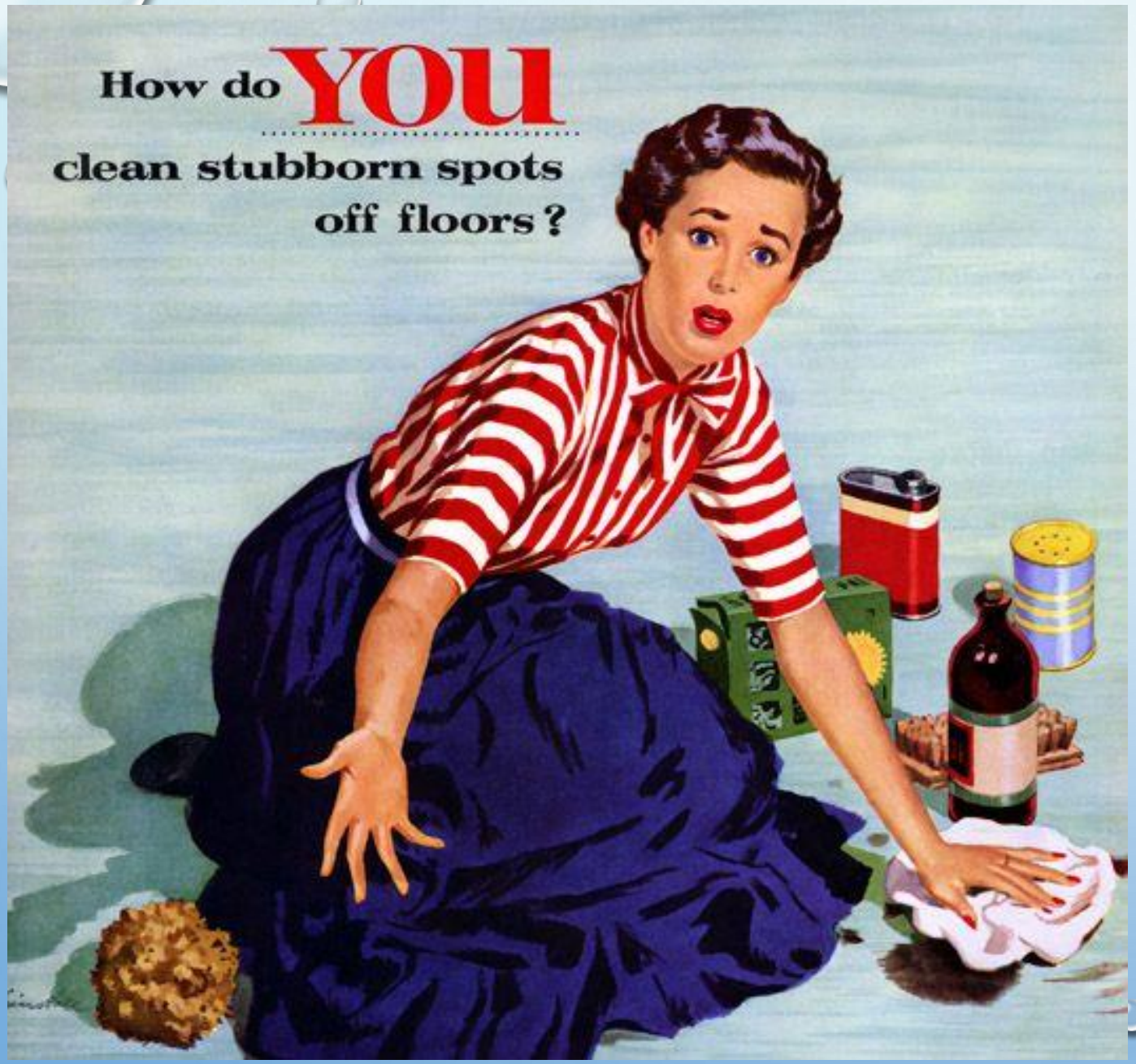
MINERAL STAIN AND HARD WATER SPOT REMOVERS

- Contain acids, such as citric, oxalic, sulphamic or hydroxyacetic acid, to dissolve minerals, limescale and rust.

SPECIALIZED STAIN REMOVERS

- Often contain enzymes
- hazardous to human health
- Can have unintended effects in the environment where they can persist
- Organic biomolecules





POLISHES

- Made up of waxes and oils and usually a degreasing agent
- Often produced from petroleum distillates or other hydrocarbon chains
- Can also be silicone-based (persistent)

FRAGRANCE

- Can be naturally or artificially derived
- Usually concentrated
- Stabilizers like thimerosal (Hg) or formaldehyde are toxicity concerns

DRILLING DOWN INTO SPECIFIC TYPES OF CLEANERS -AIR FRESHENERS CAN BE REAL STINKERS

- Often contain synthetic fragrances

- Avoid listing the exact ingredients by labeling them as “proprietary” or “trade secrets”
- Consider purified essential oils

SCOURING POWDER

- Mineral scouring agents (calcite, feldspar, silica
- However, most add chlorine bleaching agents or even plastic.
- Read packaging carefully!
- Many scourers include chemicals highly toxic to aquatic life
- Natural scourers include salt, and baking soda
- Stale bread is particularly effective at cleaning metal

WINDOW CLEANERS

- Use surfactants to break grease and solvents to carry away oils without residue
- Commonly contain ammonia products (irritants)

- Clean windows with newspaper, 1-2 part vinegar: 4 parts water

- Avoid ammonia wherever possible

CARPET CLEANER

- ONE WORD: Perflurochemicals (scotch guard)
- Perchloroethylene: Nausea, dizziness, fatigue, liver and kidney problems
- Naptha popularly used as a solvent, derived from coal tar. CNS danger

METAL POLISH

- Contain organic
- Toothpaste is an incredibly effective alternative,
- Vinegar and salt are other options

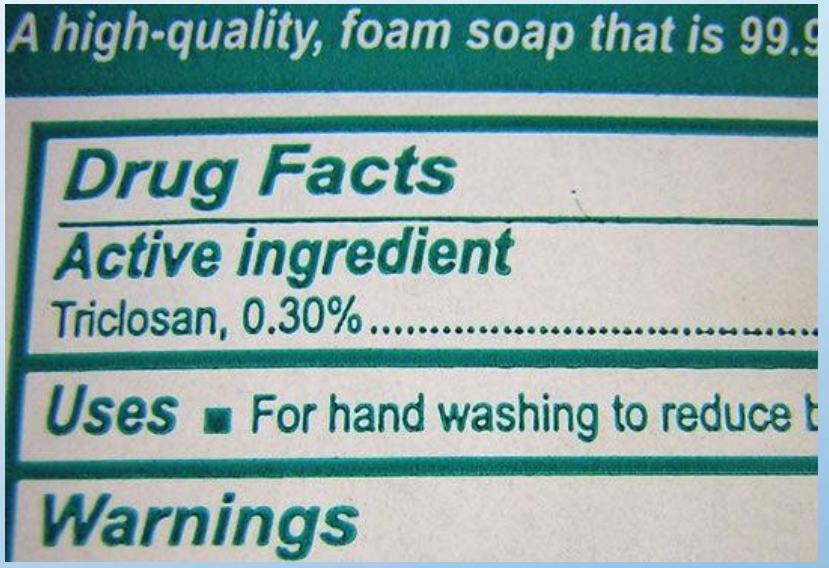
DISINFECTANTS

- Overused

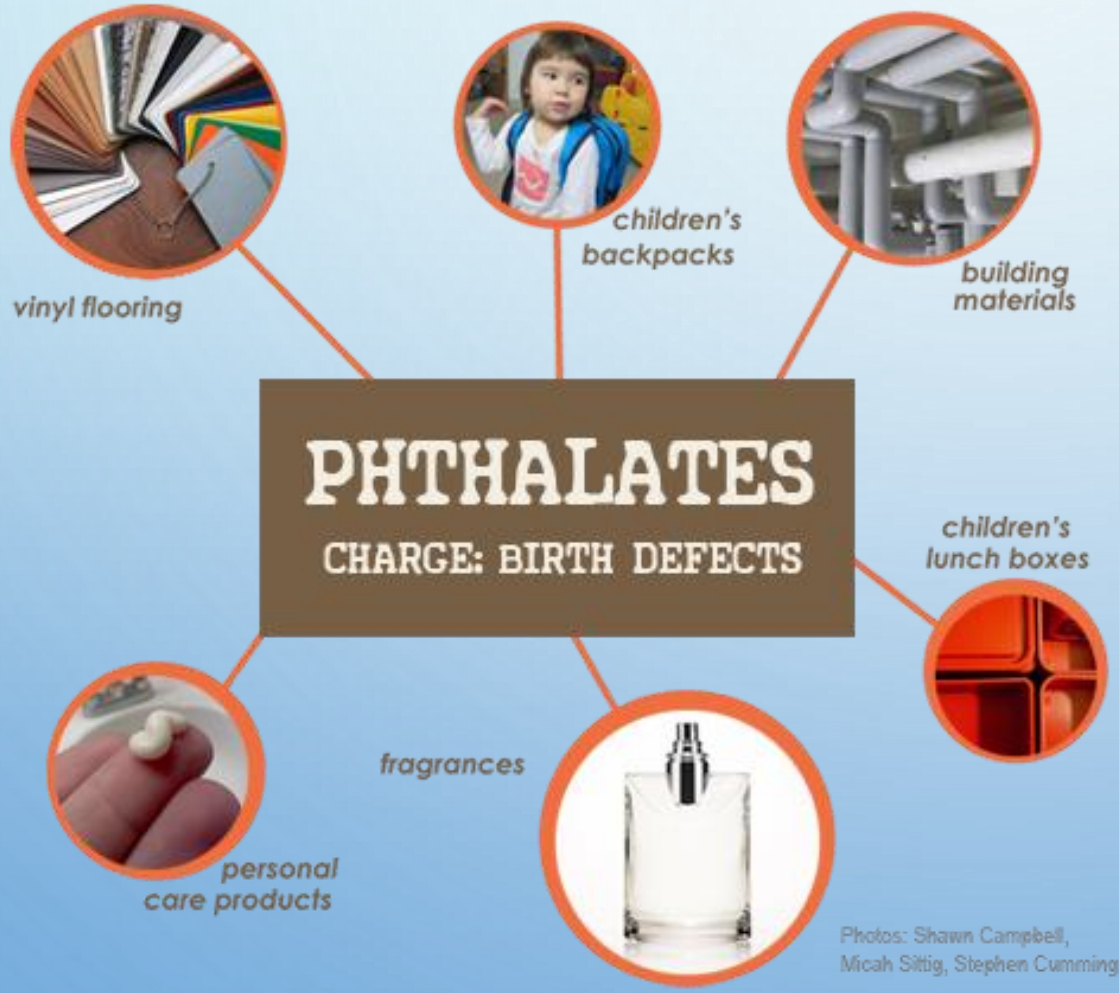
- Watch which surface you use them on!!

- Triclosan…issues

AMERICA'S LEAST WANTED: TRICLOSAN



PHTHALATES



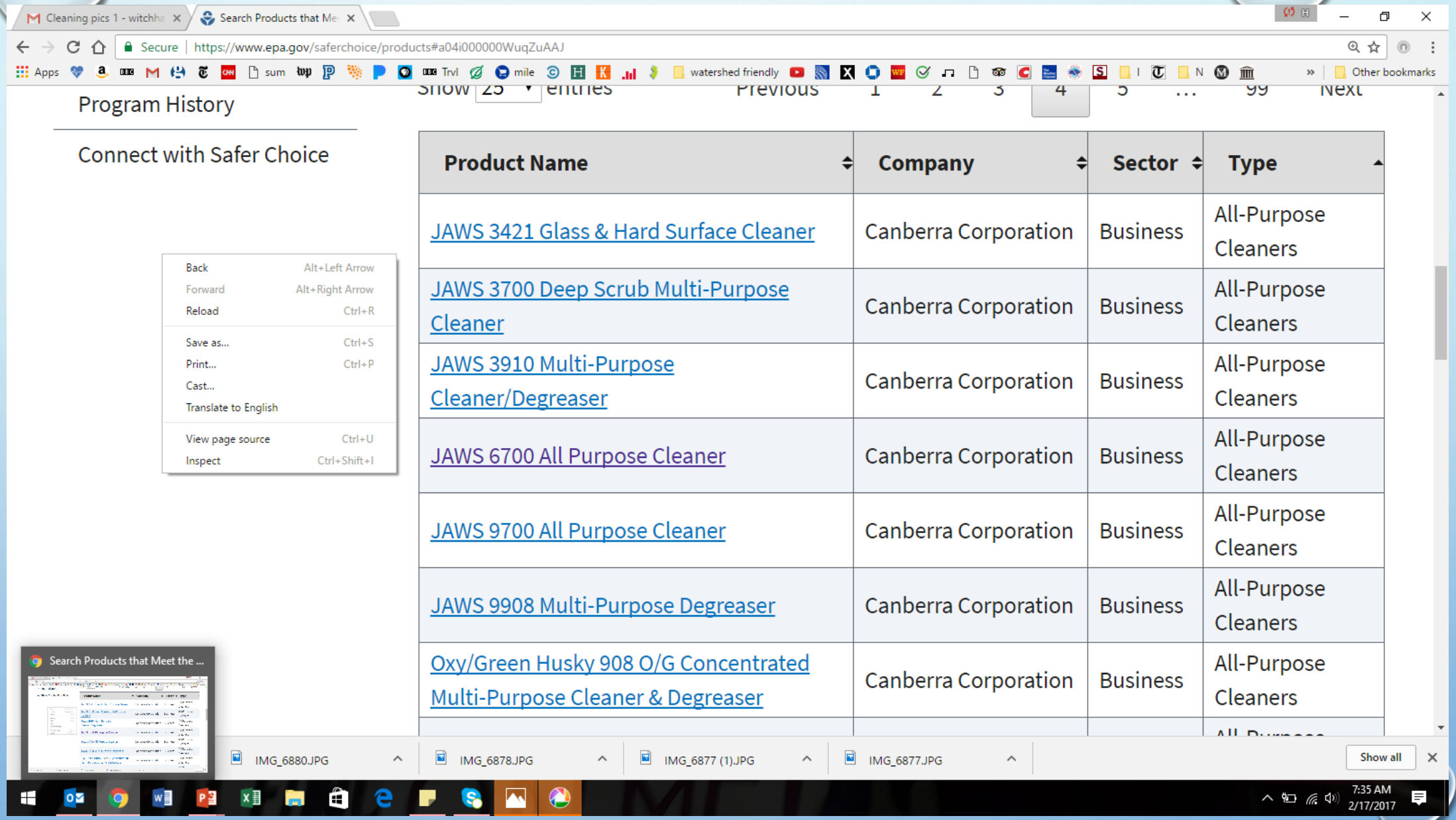
- To avoid phthalates AVOID fragrances
- “fragrance” or “parfum”
- 95% of people tested have phthalates present in their urine

CANCER CAUSING COMPOUNDS

- 1,4 DIOXANE….. 2010 STUDY BY THE NEW YORK STATE DEPARTMENT OF HEALTH.
- SOME OF THE PRODUCTS LIKELY TO CAUSE BIRTH DEFECTS INCLUDE 1,4 DIOXANE WHICH IS PRESENT IN MANY LAUNDRY DETERGENTS AND CLEANERS AS A BY PRODUCT FROM PRODUCTION
- CREATION OF FORMALDEHYDE AS A BREAKDOWN PRODUCT

WHAT CAN YOU DO?- **DON'T PANIC!**

1. Read the labels!
2. Research the most damaging chemicals and look to avoid these few
3. Choose products that display their ingredient listing fully
4. Search the E.W.G data base for background about the products you use
5. Simplify the number and type of product you use
6. Make your own products!! Changing habits can be hard but worth it



https://www.epa.gov/saferchoice/products#a04i000000WupsXAAR

EWG's Guide to Healthy Cleaning | house to water treatment plant

https://www.ewg.org/guides/substances/2278-FORMALDEHYDE

Know your environment. Protect your health.

ewg

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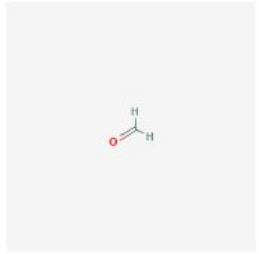
EWG's Guide to Healthy Cleaning

Search more than 2,500 products | Search



See more:

- Evidence
- Products Listing It

EWG'S HEALTHY LIVING: Home

FORMALDEHYDE

F

This substance ranges from C to F depending on concentration/usage.

Asthma/Respiratory		Moderate Concern
Skin Allergies & Irritation		High Concern
Developmental & Reproductive Toxicity		Some Concern
Cancer		High Concern
Environment		Low Concern

Top scoring factors: Evidence of cancer; skin irritation/allergies/damage; general systemic/organ effects

FORMALDEHYDE can be found in 27 products.

Print | Share on:

Evidence

Health issue	Level of Concern	Source

4:27 PM
2/27/2019

Know your environment.
Protect your health.

ewg

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EWG's Guide to Healthy Cleaning

Search more than 2,500 products | Search

Product Updates | Find out more

SAFETY RATINGS FOR MORE THAN 2,500 PRODUCTS

Search more than 2,500 products | Search

TOP PRODUCTS

Find greener cleaners for household needs

LABEL DECODER

Translate technical terms and ad hype

ABOUT THIS REPORT

EWG looked beyond labels to rate products

IT'S EWG'S GUIDE TO HEALTHY CLEANING BUT FOR FOOD!

EWG's Guide to Healthy Cleaning
Update Center

Product Updates

11:51 P
1/9/20

Love a particular cleaning product?

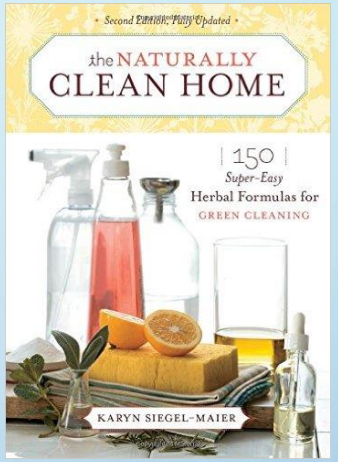
- research its ingredients- - follow up to find out all ingredients
- Check its composition on EWG
- Write to companies to ask what's in their products

NATURAL CLEANING PRODUCT BASICS:

Sodium borate*

- HTTP://WWW.EWG.ORG/GUIDES/CLEANERS
- DESIGN FOR THE ENVIRONMENT'S WEBSITE: HTTP://WWW.EPA.GOV/DFE/PUBS/PROJECTS/FORMULAT/FORMPART.HTM.

RESOURCES



- HTTP://EARTHEASY.COM/LIVE_NONTOXIC_SOLUTIONS.HTM#HEALTHYHOME
- HTTPS://ECOCYCLE.ORG/HAZWASTE/ECOFRIENDLY-CLEANING
- HTTPS://WWW.CARE.COM/C/STORIES/5925/GREEN-CLEANING-12-NATURAL-SOLUTIONS-THAT-REA/
- HTTP://WWW.HEALTHYCLEANING101.ORG/TYPES-OF-HOUSEHOLD-CLEANING-PRODUCTS/#DIS
- HTTP://WWW.POLLUTIONISSUES.COM/HO-LI/HOUSEHOLD-POLLUTANTS.HTML

SOURCE: Compiled by author.

Product Type	Harmful Ingredients	Potential Health Hazards
Air fresheners & deodorizers	Formaldehyde	Toxic in nature; carcinogen; irritates eyes, nose,throat and skin; nervous, digestive, respiratory system damage
Bleach	Sodium hypochlorite	Corrosive; irritates and burns skin and eyes; nervous, respiratory, digestive system damage
Disinfectants	Sodium hypochlorite	Corrosive; irritates and burns skin and eyes; nervous, respiratory, digestive system damage
	Phenols	Ignitable; very toxic in nature; respiratory and circulatory system damage
	Ammonia	Toxic in nature; vapor irritates skin, eyes and respiratory tract
Drain cleaner	Sodium/potassium hydroxide (lye)	Corrosive; burns skin and eyes; toxic in nature; nervous, digestive and urinary system damage
Flea powder	Carbaryl	Very toxic in nature; irritates skin; causes nervous, respiratory and circulatory system damage
	Dichlorophene	Toxic in nature; irritates skin; causes nervous and digestive system damage
	Chlordane and other chlorinated hydrocarbons	Toxic in nature; irritates eyes and skin; cause respiratory, digestive and urinary system damage
Floor cleaner/wax	Diethylene glycol	Toxic in nature; causes nervous, digestive and urinary system damage
	Petroleum solvents	Highly ignitable; carcinogenic; irritate skin, eyes, throat, nose and lungs
	Ammonia	Toxic in nature; vapor irritates skin, eyes and respiratory tract
Furniture polish	Petroleum distillates or mineral spirits	Highly ignitable; toxic in nature; carcinogen; irritate skin, eyes, nose, throat and lungs
Oven cleaner	Sodium/potassium hydroxide (lye)	Corrosive; burns skin, eyes; toxic in nature; causes nervous and digestive system damage
Paint thinner	Chlorinated aliphatic hydrocarbons	Toxic in nature; cause digestive and urinary system damage
	Esters	Toxic in nature; irritate eyes, nose and throat
	Alcohols	Ignitable; cause nervous system damage; irritate eyes, nose and throat
	Chlorinated aromatic hydrocarbons	Ignitable; toxic in nature; digestive system damage
	Ketones	Ignitable; toxic in nature; respiratory system damage
Paints	Aromatic hydrocarbon thinners	Ignitable; toxic in nature; carcinogenic; irritates skin, eyes, nose and throat; respiratory system damage
	Mineral spirits	Highly ignitable; toxic in nature; irritates skin, eyes, nose and throat; respiratory system damage
Pool sanitizers	Calcium hypochlorite	Corrosive; irritates skin, eyes, and throat; if ingested cause severe burns to the digestive tract
	Ethylene (algaecides)	Irritation of eyes, mucous membrane and skin; effects reproductive system; probable human carcinogen of medium carcinogenic hazard
Toilet bowl cleaner	Sodium acid sulfate or oxalate or hypochloric acid	Corrosive; toxic in nature; burns skin; causes digestive and respiratory system damage
	Chlorinated phenols	Ignitable; very toxic in nature; cause respiratory and circulatory system damage
Window cleaners	Diethylene glycol	Toxic in nature; cause nervous, urinary and digestive system damage