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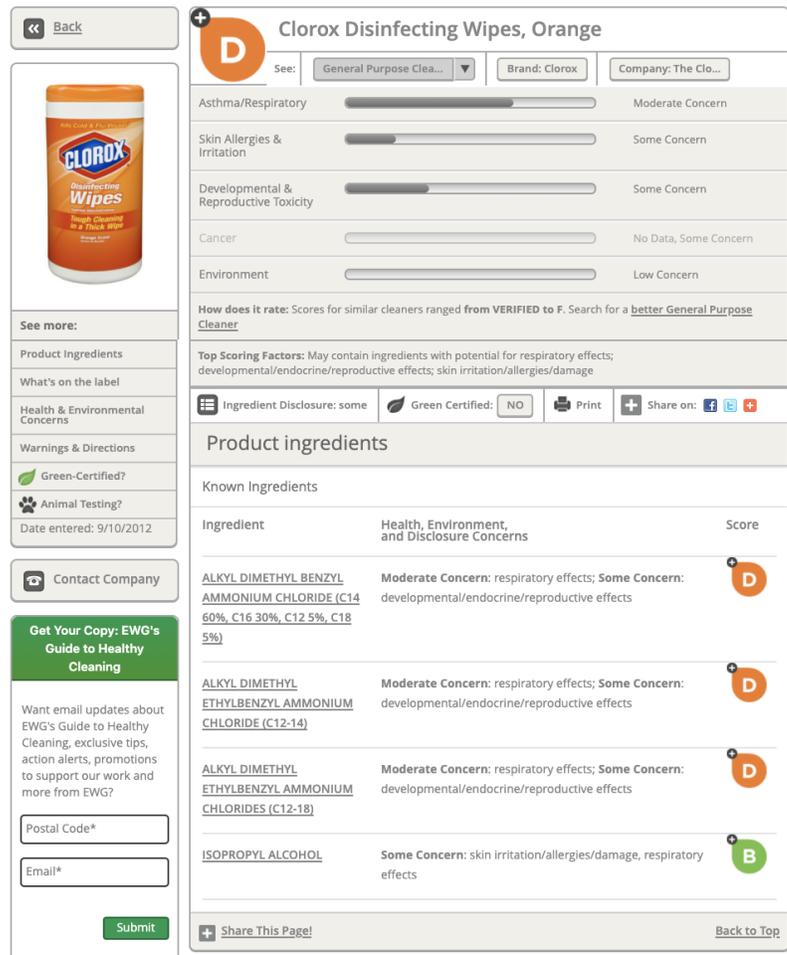
Team RAES

Edina High School

The cleaning product that we both use the most in our houses are Clorox wipes. The most concerning ingredient in the clorox wipes we found were alkyl dimethyl benzyl ammonium chloride. Based on the MADE SAFE hazard list, we discovered that Ammonia which is mixed with other chemicals to create ammonium compounds are used in many cleaning products and personal care items. When people are exposed to high levels of ammonia, major health problems may develop. For people who are exposed to lower levels of ammonia it will mainly affect people with asthma or sensitive. Along with that we have learned that little information and research has been done on ammonia but is known to be toxic to sea life.

A safe alternative to clorox wipes would be a all-purpose disinfectant cleaner. The safer alternative we found on EWG's website is AspenClean All Purpose Cleaner. This is a better alternative to clorox wipes because it reduces the waste produced by throwing away all the single cloth wipes and also uses safe ingredients that are less harmful for humans and the environment. Along with that, this specific all-purpose cleaner is about the same price, priced at \$9.99, as normal commercial brand all-purpose cleaners that are harmful. On the AspenClean website, it describes its all purpose cleaner as 100% natural, for all washable surfaces, biodegradable, plant-based, septic tank safe, kids & pet safe, bottles made from recycled plastic, 30% more efficiency, ergonomic design, and used by other professionals. Overall, if we buy the safe alternative we would be paying the same price for a product that is not only safer to use but is also more environmentally friendly.

The DIY eco-friendly product we decided to make was the all-purpose cleaner from the Women's Voices for the Earth website. All we needed was 2 cups of distilled white vinegar, 2 cups of water, 20-30 drops of an essential oil(s) of our choice, and a spray bottle to put everything in. When I made the cleaner I put everything in an empty 12 oz. plastic spray bottle I found in our house. The essential oil that I chose to use from the ones we had at my house is



Clorox Disinfecting Wipes, Orange

See: Brand: Company:

Health Concern	Score
Asthma/Respiratory	Moderate Concern
Skin Allergies & Irritation	Some Concern
Developmental & Reproductive Toxicity	Some Concern
Cancer	No Data, Some Concern
Environment	Low Concern

How does it rate: Scores for similar cleaners ranged from VERIFIED to F. Search for a [better General Purpose Cleaner](#)

Top Scoring Factors: May contain ingredients with potential for respiratory effects; developmental/endocrine/reproductive effects; skin irritation/allergies/damage

Ingredient Disclosure: some full Green Certified: Print Share on: [f](#) [t](#) [+](#)

Product ingredients

Ingredient	Health, Environment, and Disclosure Concerns	Score
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (C14 60%, C16 30%, C12 5%, C18 5%)	Moderate Concern: respiratory effects; Some Concern: developmental/endocrine/reproductive effects	D
ALKYL DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDE (C12-14)	Moderate Concern: respiratory effects; Some Concern: developmental/endocrine/reproductive effects	D
ALKYL DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDES (C12-18)	Moderate Concern: respiratory effects; Some Concern: developmental/endocrine/reproductive effects	D
ISOPROPYL ALCOHOL	Some Concern: skin irritation/allergies/damage, respiratory effects	B

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lavender which is supposed to be a calming scent for both humans and dogs. This part was important to me because I wanted a scent that would help make my house very nice while also taking into consideration the sensitivity of my dog's nose. Compared to other all-purpose disinfectant cleaners that I have used before it works just as well and is also cheaper compared to both the commercial and safe alternative versions. Along with that I also know exactly what I am using to clean the many surfaces I use all-purpose cleaner with. Overall, I found DIY all-purpose cleaner as an easier, more cost-effective way to clean things in your house.



Works Cited:

<https://www.ewg.org/guides/cleaners/6038-AspenCleanAllPurposeCleanerGrapefruitLavender/>

<https://www.ewg.org/guides/cleaners/2046-CloroxDisinfectingWipesOrange/>

<https://cleaningproducts.aspenclean.com/products/eco-friendly-all-natural-all-purpose-cleaner>

<https://www.madesafe.org/hazard-list-3/>

<https://www.womensvoices.org/take-action-with-womens-voices/green-cleaning-parties/green-cleaning-recipes/>

<https://i.pinimg.com/originals/fe/a0/a3/fea0a3345c334679f24259ce35984aed.jpg>