

DIY Hand Sanitizer

Hand Sanitizer

I chose to make hand sanitizer because during COVID, I used it a lot. I always noticed how many unnecessary chemicals were in there.

Ingredients

I selected my ingredients by researching recipes online and understanding which ingredients were the most essential and effective. I used **91 percent isopropyl alcohol** for its germ-killing ability and **my own medical aloe plant** for nourishment for this recipe!

Container

I used old hand sanitizer containers that were going to be recycled.

Response:

1. My DIY product worked. The alcohol cleansed the hands and the aloe made the alcohol less harsh.
2. My five year old sister was very surprised that I had made hand sanitizer. To her, it was a foreign and exciting idea.
3. I showed her the labels on other hand sanitizer containers and pointed out chemicals that were dangerous. She agreed to look at the labels of her food. On the next page, I will point them out.
4. I told my sister that by switching to home-made things and using organic ingredients, we can save the planet! She is very excited to be part of this.



3 facts I learned

1. I learned that by looking at and researching the ingredients section of body products, you can make decisions on the transparency and health effects of it.

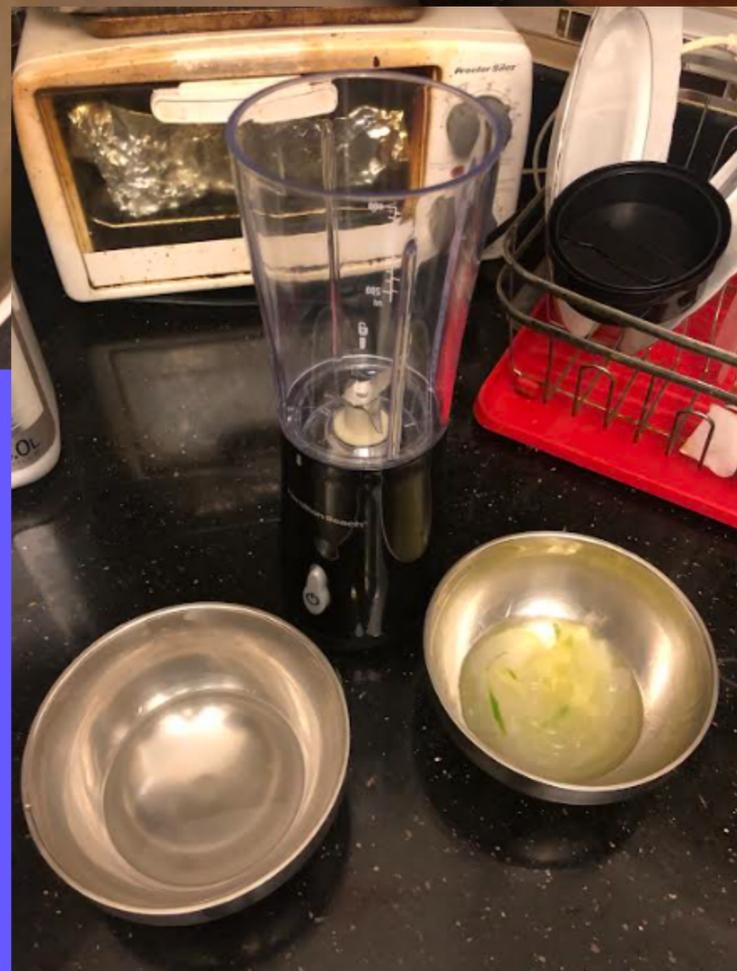
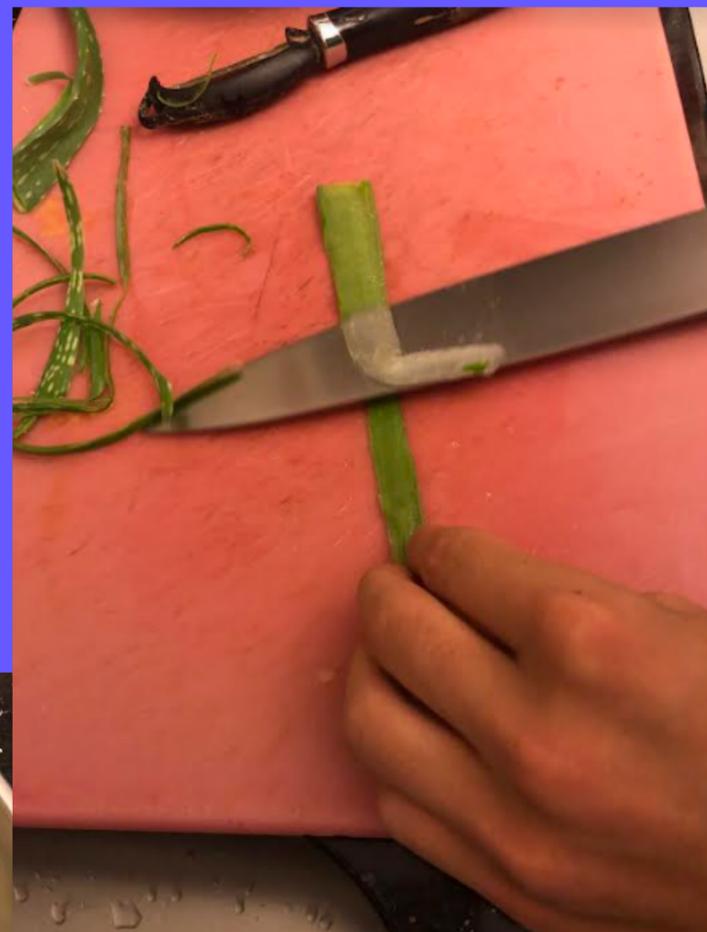
2. I learned that it is fairly simple to make DIY body products! With some creativity, it can be good, if not better than store bought ones.

3. I learned that **greenwashing** - a term given to products that describe themselves as natural and organic but have harmful chemicals.

Inactive ingredients Water, PEG-40 Hydrogenated Castor Oil, Fragrance, Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Sodium Hydroxide, Denatonium Benzoate, Tocopheryl Acetate

Denatonium Benzoate can irritate eyes, skin, and the respiratory system. **SHOULD NOT BE IN SKIN PRODUCTS!!!**

Sodium Hydroxide can cause severe burns to skin. Why is that in hand sanitizer?





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Today I learned about how body products can contain harsh chemicals and deceive people through greenwashing - claiming to be natural or organic without basis. So, today I decided to CLEAN it up with some DIY hand sanitizer! I used aloe vera from my aloe vera plant (moisturizing properties) and 91 % isopropyl alcohol for its bacteria-killing abilities. I used empty plastic containers from previous hand sanitizers and created paper labels for each member of my PGC team. On the back, I included green tips to remind them to have green habits! I also shared some with my sister, who is so enthusiastic about "saving the planet" and new green habits. Link: <https://www.healthline.com/health/how-to-make-hand-sanitizer#ingredients>

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