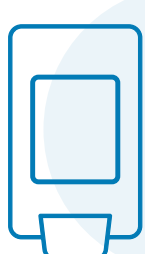


# IS YOUR HAND SANITIZER SAFE and EFFECTIVE?



## Learn Which Refilling Practices Fail Important Standards



### HAND SANITIZER IS MEANT TO HELP, NOT HURT

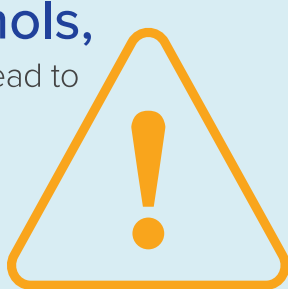
When hand sanitizer demand outpaced supply, many turned to alternative solutions they might not have considered before. But common practices could be causing more harm than good. The following problem areas could cause your hand sanitizer to be less safe and effective.

#### EFFICACY & SAFETY

The CDC cautions adding to hand sanitizer containers may cause **alcohol evaporation**, potentially **reducing effectiveness**.<sup>1</sup>

Some formulations use **1-propanol and methanol alcohols**, which the FDA says can lead to **serious health problems**.<sup>2</sup>

FDA warns against **200+ hand sanitizers**.<sup>2</sup>



#### CONTAMINATION

Topping off hand sanitizer can cause **inadvertent contamination** according to the CDC.<sup>1</sup>

- ✗ Ingredients combining in unknown measures
- ✗ Mixing new with potentially expired product



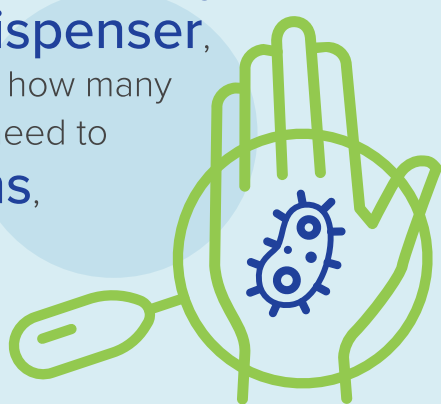
#### IMPROPER DOSE

When you **incorrectly refill a dispenser**, it can impact how many pumps you need to **kill germs**, because:

The dispenser might not be calibrated for that product.

The wrong product could jam the pump.

Mixed product can be diluted and require more than normal to maintain efficacy.



#### BAD EXPERIENCE

The CDC cautions mixing hand sanitizers can cause **skin irritation**.<sup>1</sup>

Mixing can also cause **watery or sticky product**.



People are less likely to use a product they don't like.



CDC: Refilling or "topping off" hand sanitizer dispensers should only be considered in accordance with manufacturers' guidance and FDA regulations.<sup>1</sup>

## IDENTITY CRISIS

### Mixing Product Violates FDA Requirements

As an over-the-counter drug, hand sanitizer (and its labels) are regulated by the FDA. Mixed or topped-off products no longer match the labels, making them uncompliant.

**Product Name:** Customers unsure what product they are using.

**Ingredients:** Cannot check for allergies and skin sensitivities.

**Date:** Expiration date might not be accurate.

**Lot Number:** Cannot connect in-use product to recalls or incidents.

**Label information:** Inconsistent with corporate transparency initiatives.



**! Hand sanitizer contents must match packaging to remain FDA compliant.**

#### An Easy Way to Get Back on Track

The PURELL® brand has always been committed to public safety, developing solutions rooted in science that are proven in the most critical moments. Thanks to carefully selected ingredients and SANITARY SEALED™ refills, you can feel confident you are offering hand sanitizer that is effective and uncontaminated.

Third-party certifications confirm the high standards of PURELL® hand sanitizers, which have most recently become the first in the world to achieve Gold status in the Cradle to Cradle Certified™ Products Program.



With a wide range of PURELL® dispensing systems available now and a steady, robust supply of PURELL® Advanced Hand Sanitizer refills, it's easy to make a safe and effective choice.

1. <https://www.cdc.gov/handhygiene/providers/index.html>  
 2. <https://www.fda.gov/drugs/drug-safety-and-availability/fda-updates-hand-sanitizers-consumers-should-not-use>

