SAFETY:

- Alcohol based hand rubs are flammable and accidental or deliberate ingestion can cause the adverse effects.
- Since the flash points of ethanol 80% (v/v) and isopropyl alcohol 75% (v/v) are 17.5°C/63°F and 19°C/66°F, respectively, special attention should be given to proper storage in tropical climates.
- These formula configurations are strictly for home use and not commercial production.

FOR MORE INFORMATION:

Visit: <u>www.cdc.gov/coronavirus/2019</u>ncov





4-H Activity: Hand Washing & Hand Sanitizer



4-H Youth Development Program







These are important steps to understand hand washing and hand sanitizer

- 1. Always, the first sanitary recommendation is to wash hands with soap and water often.
 - Wash hands for at least 20 seconds.
- 2. Use hand sanitizer when *soap* and *water* is *not available*. Commercially produced hand sanitizers are created and packaged with protocols to ensure consistent, safe products for consumer use.
 - Per manufacturing guidelines and regulatory oversight, proper use guidelines are included with commercially created products, usually on the label.

- 3. Homemade hand sanitizer as part of the COVID-19 response can be made *only in the absence* of commercially produced hand sanitizers, The World Health Organization recommends the following recipe for homemade hand sanitizer.
 - Homemade hand sanitizers is only for extreme situations when handwashing or commercial products are not readily available. "The FDA does not recommend that consumers make their own hand sanitizer." -U.S. FDA
 - **Caution:** Do not use homemade hand sanitizers on children's skin because improper use may lead to a greater risk of injury.

Homemade Hand Sanitizer

The following information contains mixing chemicals that could be hazardous to children. **Adult supervision is strongly advised.**

INGREDIENTS/SUPPLIES:

- Small spray bottle
- 1 tablespoon of 3% hydrogen peroxide
- 1 teaspoon of 98% glycerin (aloe vera gel is an example)
- Isopropyl alcohol and sterile distilled **OR** boiled cold water in ONE of the following combinations:
- \Rightarrow 1 cup + 2 tablespoons of 99% isopropyl alcohol PLUS 1/4 cup + 1 teaspoon water
- \Rightarrow 1 cup + 3 tablespoons of 91% isopropyl alcohol PLUS 2 tablespoons + 2 and 1/2 teaspoons water

STEP BY STEP MIXING:

- Pour alcohol into a medium container, ideally with a pouring spout.
- Add hydrogen peroxide, then glycerin and stir.
- Measure and add water.
- Sanitize spray bottles by adding in a small amount of leftover alcohol, swirling around and allowing to air dry.
- Fill bottle with solution and label clearly with contents.

USE:

- To use, spray on all surfaces of your hands and rub them together until they feel dry.
- Store in a cool, dry area away from any heat source or open flame.

