Policy for Temporary Compounding of Certain Alcohol-Based Hand Sanitizer Products During the Public Health Emergency Immediately in Effect Guidance for Industry

FDA is issuing this guidance for immediate implementation in accordance with 21 CFR 10.115(g)(2). Comments may be submitted at any time for Agency consideration. Submit written comments to the Dockets Management Staff (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852. Submit electronic comments to <u>https://www.regulations.gov</u>. All comments should be identified with the docket number listed in the notice of availability that publishes in the *Federal Register*.

For questions regarding this document, contact FDA's human drug compounding team (CDER) at <u>COVID-19-Hand-Sanitizers@fda.hhs.gov</u>.

U.S. Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER)

> March 2020 Updated March 27, 2020 Compounding

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Policy for Temporary Compounding of Certain Alcohol-Based Hand Sanitizer Products During the Public Health Emergency Immediately in Effect Guidance for Industry¹

This guidance represents the current thinking of the Food and Drug Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the FDA office responsible for this guidance as listed on the title page.

I. INTRODUCTION

Due to the Coronavirus Disease 2019 (COVID-19) pandemic, the Food and Drug Administration (FDA or Agency) has received a number of queries concerning compounding of alcohol-based hand sanitizers. The Agency is issuing this guidance to communicate its policy for the temporary compounding of certain alcohol-based hand sanitizer products by pharmacists in State-licensed pharmacies or Federal facilities and registered outsourcing facilities (referred to collectively in this guidance as compounders) for the duration of the public health emergency declared by the Secretary of Health and Human Services (HHS) on January 31, 2020.²

In light of the public health emergency posed by COVID-19, this guidance is being implemented without prior public comment because the FDA has determined that prior public participation for this guidance is not feasible or appropriate (see section 701(h)(1)(C)(i) of the Federal Food, Drug, and Cosmetic Act (FD&C Act) (21 U.S.C. 371(h)(1)(C)(i)) and 21 CFR 10.115(g)(2)). This guidance document is immediately in effect, but it remains subject to comment in accordance with the Agency's good guidance practices.

In general, FDA's guidance documents do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.

¹ This guidance has been prepared by the Office of Compliance in the Center for Drug Evaluation and Research at the Food and Drug Administration.

² The HHS Public Health Emergency Declaration is available at <u>https://www.phe.gov/emergency/news/healthactions/phe/Pages/2019-nCoV.aspx</u>.

II. BACKGROUND

There is currently an outbreak of respiratory disease caused by a novel coronavirus that was first detected in Wuhan City, Hubei Province, China, and that has now been detected in many locations internationally, including cases in the United States. The virus has been named "SARS-CoV-2" and the disease it causes has been named "Coronavirus Disease 2019" (COVID-19). SARS-CoV-2 has demonstrated the capability to rapidly spread, leading to significant impacts on healthcare systems and causing societal disruption. The potential public health threat posed by COVID-19 is high, both globally and to the United States. On January 31, 2020, the Secretary of HHS determined that a public health emergency exists.

Hand hygiene is an important part of the U.S. response to COVID-19. Washing hands often with soap and water for at least 20 seconds is essential, especially after going to the bathroom, before eating, and after coughing, sneezing or blowing one's nose. If soap and water are not readily available, the Centers for Disease Control and Prevention (CDC) recommends consumers use an alcohol-based hand sanitizer that contains at least 60 percent alcohol (also referred to as ethanol or ethyl alcohol).³

III. DISCUSSION

We understand that some consumers and health care professionals are currently experiencing difficulties accessing alcohol-based hand sanitizers. We are also aware of reports that some consumers are producing hand sanitizers for personal use; the Agency lacks information on the methods being used to prepare such products and whether they are safe for use on human skin. We further recognize that compounders, relative to untrained consumers, are more familiar with standards and methods for producing drug products.

Because of the public health emergency posed by COVID-19, FDA does not intend to take action against compounders⁴ that prepare alcohol-based hand sanitizers for consumer use and for use as health care personnel hand rubs for the duration of the public health emergency declared by the Secretary of HHS on January 31, 2020, provided the following circumstances are present:

³ Isopropyl alcohol and ethyl alcohol are two of the active ingredients currently being evaluated by FDA as part of its review of over-the-counter (OTC) monographs for hand sanitizers for use in reducing bacteria on the skin that potentially can cause disease or decreasing bacteria on the skin. See "Safety and Effectiveness of Consumer Antiseptic Rubs; Topical Antimicrobial Drug Products for Over-the-Counter Human Use," Final Rule, 84 FR 14847 (April 12, 2019); "Safety and Effectiveness of Health Care Antiseptics; Topical Antimicrobial Drug Products for Over-the-Counter Human Use Final Rule," 82 FR 60474 (December 20, 2017); "Topical Antimicrobial Drug Products," Products for Over-the-Counter Human Use; Tentative Final Monograph for Health-Care Antiseptic Drug Products," Proposed Rule, 59 FR 31402 (June 17, 1994) (1994 TFM).

⁴ Specifically, FDA does not intend to take action against pharmacists in State-licensed pharmacies or Federal facilities, for the duration of the public health emergency declared by the Secretary of HHS on January 31, 2020, for violations of sections 501(a)(2)(B), 502(f)(1), and 505 of the FD&C Act (21 U.S.C. 351(a)(2)(B), 352(f)(1), and 355), or against outsourcing facilities for violations of sections 502(f)(1), 505, or 582 of the FD&C Act (21 U.S.C. 352(f)(1), 355, and 360eee-1).

- 1. The hand sanitizer is compounded using only the following ingredients in the preparation of the product:
 - a. (*Select one of two options*) (1) Alcohol (ethanol)⁵ that is not less than 94.9% ethanol by volume⁶; **OR** (2) Isopropyl Alcohol
 - b. Glycerin (glycerol) United States Pharmacopeia (USP) or Food Chemical Codex (also known as "food grade")
 - c. Hydrogen peroxide⁷
 - d. Sterile water (e.g., by boiling, distillation, or other process that results in water that meets the specifications for Purified Water USP). Water should be used as quickly as possible after it is rendered sterile or purified.
- 2. The alcohol (ethanol) is denatured either by the alcohol producer or at the point of production of the finished hand sanitizer product.⁸ Alcohol and Tobacco Tax and Trade Bureau regulations in 27 CFR part 20 and 21 provide a number of formulas for denaturing alcohol. Formulas for use in hand sanitizers include:⁹
 - a. Formula 40A or 40B with or without the tert-butyl alcohol
 - b. Formula 3C (isopropyl alcohol)
- 3. The hand sanitizer is compounded according to the following formula consistent with World Health Organization (WHO) recommendations:¹⁰
 - a. Alcohol (ethanol) (80%, volume/volume (v/v)) in an aqueous solution; or Isopropyl Alcohol (75%, v/v) in an aqueous solution.¹¹
 - b. Glycerin (glycerol) (1.45% v/v).¹²

⁵ Alcohol (ethanol) used for this purpose is derived from distillation or fermentation processes typically used for consumable goods. Alcohol derived from synthetic processes is used only if it meets United States Pharmacopoeia (USP) or Food Chemical Codex (FCC) grade.

⁶ This is consistent with the USP and grade requirements for purity. Lower ethanol content alcohol falls within this policy so long as it is labeled accordingly and the finished hand sanitizer meets the ethanol volume to content concentration of 80%.

⁷ Hydrogen Peroxide Concentrate USP or Hydrogen Peroxide Topical Solution USP. Technical grade hydrogen peroxide falls within this policy if the concentration is within that of Hydrogen Peroxide Concentrate USP or Hydrogen Peroxide Topical Solution USP.

⁸ See FDA guidance for industry *Temporary Policy for Manufacture of Alcohol for Incorporation Into Alcohol-Based Hand Sanitizer Products During the Public Health Emergency (COVID-19).*

⁹ FDA is continuing to evaluate other potential formulas, including the inclusion of acetone, for denaturing. Firms who wish to use different denaturants (bitterants) should contact FDA at <u>COVID-19-hand-sanitizers@fda.hhs.gov</u>. ¹⁰ WHO's recommendations, titled "Guide to Local Production: WHO-recommended Handrub Formulations," are available at <u>https://www.who.int/gpsc/5may/Guide_to_Local_Production.pdf</u>.

¹¹ Consistent with the 1994 TFM, alcohol should be used in a final product concentration between 60-95% (v/v) in an aqueous solution denatured in accordance with this guidance (see also FDA guidance for industry *Temporary Policy for Manufacture of Alcohol for Incorporation Into Alcohol-Based Hand Sanitizer Products During the Public Health Emergency* (*COVID-19*); isopropyl alcohol should be used in a concentration between 70-91.3% (v/v). This guidance is consistent with WHO's recommended formulation specifications of 80% alcohol and 75% isopropyl alcohol.

¹² Although WHO's recommended formulation includes glycerol 1.45% (v/v), reports indicate that glycerol negatively impacts effectiveness of isopropyl alcohol (<u>https://www.ncbi.nlm.nih.gov/pubmed/28670452</u>), and reports studying the effectiveness of WHO's formulation have suggested a reduction from 1.45% to 0.725% (<u>https://www.ncbi.nlm.nih.gov/pubmed/23388358/</u>).

- c. Hydrogen peroxide (0.125% v/v).¹³
- d. Sterile distilled water or boiled cold water.

The compounder does not add other active or inactive ingredients, such as ingredients to improve the smell or taste due to the risk of accidental ingestion in children. Different or additional ingredients may impact the quality and potency of the product.

- 4. The compounder pays particular attention to ensure the ethanol or isopropyl alcohol active ingredient is correct and the correct amount of the active ingredient is used.
- 5. The hand sanitizer is prepared under conditions routinely used by the compounder to compound similar nonsterile drugs.¹⁴
- 6. The hand sanitizer is labeled consistent with the attached labeling in Appendix A (Labeling for Ethyl Alcohol Formulation Consumer Use), Appendix B (Labeling for Isopropyl Alcohol Formulation Consumer Use), Appendix C (Labeling for Ethyl Alcohol Formulation Health Care Personnel Handrub Use), or Appendix D (Labeling for Isopropyl Alcohol Formulation Health Care Personnel Handrub Use).¹⁵

This policy does not extend to other types of products, such as products that use different active ingredients, whose potency falls above or below the formulation described above, that are marketed with claims that do not conform to the "Topical Antimicrobial Drug Products for Over-the-Counter Human Use; Tentative Final Monograph for Health-Care Antiseptic Drug Products," Proposed Rule, 59 FR 31402 (June 17, 1994) (e.g., pathogen-specific disease claims), that are surgical hand rubs, or whose advertising or promotion is false or misleading in any particular.

FDA encourages consumers and health care professionals to report adverse events experienced with the use of hand sanitizers to FDA's <u>MedWatch Adverse Event Reporting</u> program:

- Complete and submit the report <u>online;</u> or
- Download and complete the <u>form</u>, then submit it via fax at 1-800-FDA-0178.

Outsourcing facilities can see <u>Adverse Event Reporting for Outsourcing Facilities Under Section</u> 503B of the Federal Food, Drug, and Cosmetic Act for more information.

¹³ Formulate to a final strength of 0.125% v/v hydrogen peroxide using Hydrogen Peroxide Concentrate USP or Hydrogen Peroxide Topical Solution USP (in the latter case provided the alcohol (ethanol or isopropyl alcohol) concentration remains within the specified level of 80% for ethyl alcohol or 75% for isopropyl alcohol).

¹⁴ In particular, outsourcing facilities compound drugs subject to current Good Manufacturing Practice requirements, and other pharmacy compounders generally prepare nonsterile drug products from bulk drug substances in compliance with United States Pharmacopoeia chapter 795. Both outsourcing facilities and other pharmacy compounders must also avoid insanitary conditions as set forth in section 501(a)(2)(A) of the FD&C Act (21 U.S.C. 351(a)(2)(A)).

¹⁵ The label should include the name and contact information of the compounder. We do not intend to take action against compounders who have already ordered or printed their labels without this information.

Contains Nonbinding Recommendations

Appendix A. Labeling for Ethyl Alcohol Formulation Consumer Use

PRINCIPAL DISPLAY PANEL (FRONT OF PACKAGE):

Alcohol Antiseptic 80% Topical Solution

Hand Sanitizer Non-sterile Solution

[Insert Volume of Product in mL]

Drug Facts	
Active ingredient[s]	Purpose
Alcohol 80% v/v	Antiseptic
Use[s]	
Hand sanitizer to help reduce bacteria that potentially can cause disease. For use when soap and v	vater are not available.
Warnings	
For external use only. Flammable. Keep away from heat or flame	
Do not use	
 in children less than 2 months of age 	
on open skin wounds	
When using this product keep out of eyes, ears, and mouth. In case of contact with eyes, rinse eye	es thoroughly with water.
Stop use and ask a doctor if irritation or rash occurs. These may be signs of a serious condition.	
Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center ri	ght away.
Directions	
 Place enough product on hands to cover all surfaces. Rub hands together until dry. 	
 Supervise children under 6 years of age when using this product to avoid swallowing. 	
Other information	
 Store between 15-30C (59-86F) 	

Appendix B. Labeling for Isopropyl Alcohol Formulation Consumer Use

PRINCIPAL DISPLAY PANEL (FRONT OF PACKAGE):



Drug Facts	
Active ingredient[s] Isopropyl alcohol 75% v/v	Purpose Antiseptic
Use[s]	
Hand sanitizer to help reduce bacteria that potentially can cause disease. For use when soap and water are not avai	lable.
Warnings	
For external use only. Flammable. Keep away from heat or flame	
Do not use	
 in children less than 2 months of age 	
on open skin wounds	
When using this product keep out of eyes, ears, and mouth. In case of contact with eyes, rinse eyes thoroughly with	n water.
Stop use and ask a doctor if irritation or rash occurs. These may be signs of a serious condition.	
Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away.	
Directions	
 Place enough product on hands to cover all surfaces. Rub hands together until dry. 	
 Supervise children under 6 years of age when using this product to avoid swallowing. 	
Other information	
 Store between 15-30C (59-86F) 	
 Avoid freezing and excessive heat above 40C (104F) 	
Inactive ingredients glycerin, hydrogen peroxide, purified water USP	

Appendix C. Labeling for Ethyl Alcohol Formulation Health Care Personnel Handrub Use

PRINCIPAL DISPLAY PANEL (FRONT OF PACKAGE):



Drug Facts	
Active ingredient[s]	Purpose
Alcohol 80% v/v	Antiseptic
Use[s]	
Health care personnel hand rub to help reduce bacteria that potentially can cause disease.	
Warnings	
For external use only. Flammable. Keep away from heat or flame	
Do not use	
 in children less than 2 months of age 	
on open skin wounds	
When using this product keep out of eyes, ears, and mouth. In case of contact with eyes, rinse e	yes thoroughly with water.
Stop use and ask a doctor if irritation or rash occurs. These may be signs of a serious condition.	
Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center	right away.
Directions	
 Place enough product on hands to cover all surfaces. Rub hands together until dry. 	
 Supervise children under 6 years of age when using this product to avoid swallowing. 	
Other information	
 Store between 15-30C (59-86F) 	
 Avoid freezing and excessive heat above 40C (104F) 	

Appendix D. Labeling for Isopropyl Alcohol Formulation Health Care Personnel Handrub Use

PRINCIPAL DISPLAY PANEL (FRONT OF PACKAGE):



Active ingredient[s]	Purpose
Isopropyl alcohol 75% v/v	Antiseptic
Use[s]	
Health care personnel hand rub to help reduce bacteria that potentially can cause disease.	
Warnings	
For external use only. Flammable. Keep away from heat or flame	
Do not use	
 in children less than 2 months of age 	
on open skin wounds	
When using this product keep out of eyes, ears, and mouth. In case of contact with eyes, rinse eyes thorough	ly with water.
Stop use and ask a doctor if irritation or rash occurs. These may be signs of a serious condition.	
Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away.	
Directions	
 Place enough product on hands to cover all surfaces. Rub hands together until dry. 	
 Supervise children under 6 years of age when using this product to avoid swallowing. 	
Other information	
• Store between 15-30C (59-86F)	
 Avoid freezing and excessive heat above 40C (104F) 	
Inactive ingredients glycerin, hydrogen peroxide, purified water USP	