



Disinfectants & Sanitizers

PROTECTING YOURSELF WITHOUT TOXIC CHEMICALS



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Disinfectants and Sanitizers

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Updated 5/1/2020

Cleaning and disinfecting should reduce risk from pathogens, but if materials are not used properly, they can actually increase risk.

Definitions

The **Centers for Disease Control and Prevention and Control** (CDC) advises, "Cleaning is the necessary first step of any disinfection process. Cleaning removes organic matter, salts, and visible soils, all of which interfere with microbial inactivation. The physical action of scrubbing with detergents and surfactants and rinsing with water removes substantial numbers of microorganisms. If a surface is not cleaned first, the success of the disinfection process can be compromised. Removal of all visible blood and inorganic and organic matter can be as critical as the germicidal activity of the disinfecting agent."

In terms of materials, **sanitizers**, which are designed to be used on humans, are distinguished from **disinfectants**, which are used on inanimate surfaces. **Sanitizers** are regulated by the **Food and Drug Administration** (FDA), while **disinfectants** are regulated as pesticides by the **Environmental Protection Agency** (EPA).

In 2016, FDA banned 19 antimicrobial ingredients in hand soap, including **triclosan**, finding them no more effective than plain soap and water.

Disinfectants and Sanitizers in Public Health Emergencies

It is important during public health emergencies involving infectious diseases to scrutinize practices and products very carefully so that hazards presented by the crisis are not elevated because of the unnecessary threat introduced with toxic chemical use. **Beyond Pesticides** is compiling and updating resources for you to utilize.

Protecting Yourself from COVID-19 (coronavirus) without Toxic Sanitizers and Disinfectants



Fight the coronavirus with commonsense prevention and safer disinfection products. Avoid products that increase vulnerability to respiratory problems or weaken the immune system.

With the management of viral and bacterial infections, it is always important that we do not exacerbate the risk to individuals in the process of avoiding or controlling the threat. In the case of COVID-19, we have measures of protection—both practices and products—that can protect us without using toxic products that increase risk factors.

[Click here to go the Beyond Pesticides COVID-19 Factsheet: "Protecting Yourself from COVID-19 \(coronavirus\) without Toxic Sanitizers and Disinfectants."](#)

Q&A Factsheet: We address your questions about "Protecting Yourself from COVID-19 (coronavirus) without Toxic Sanitizers and Disinfectants."

Products: What to Use and What to Avoid

Check the Product Label!



It is important to observe all chemical ingredients on the disinfectant and sanitizer product labels. Also, look at the use instructions to ensure that the method of use is compatible with your need. Some products require a longer contact time with the surface than others. Some may be applied as a spray, while others may be wiped onto the surface.

The first chemical ingredient is not the only chemical ingredient to consider when looking for a non-toxic sanitizer and disinfectant. Even if the first chemical ingredient is non-toxic, the following chemical ingredients are not always non-toxic. (e.g., Hydrogen peroxide is a non-toxic sanitizer, while hydrogen peroxide and peracetic acid is a highly toxic disinfectant).

Use the information below as a guide on what to look for when buying disinfectants and sanitizers.

Updated 5/8/2020

▼ **Disinfectants to Look For**

Residential

Active Chemical Ingredient(s)	Product Name	Company	Formulation Type	EPA Registration Number	Surface Types for Use	Use Site
Citric acid	CleanCide Wipes	Wexford Labs Inc	Towelette	34810-36	Hard nonporous	Healthcare; Institutional; Residential
Citric acid	Comet Disinfecting Bathroom Cleaner	The Proctor & Gamble Company	Dilutable	3573-54	Hard nonporous	Healthcare; Institutional; Residential
Citric acid	LEXX™ Liquid	ProNatural	Dilutable	91452-1	Hard	Healthcare:

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Citric acid	Comet Disinfecting Bathroom Cleaner	The Proctor & Gamble Company	Dilutable	3573-54	Hard nonporous	Healthcare; Institutional; Residential
Citric acid	LEXX™ Liquid Sanitizer and Cleaner Concentrate	ProNatural Brands LLC	Dilutable	91452-1	Hard nonporous	Healthcare; Institutional; Residential
Citric acid	Lysol Bathroom Cleaner	Reckitt Benckiser LLC	RTU	675-55	Hard nonporous; Food Contact Post-Rinse Required (FCR)	Healthcare; Institutional; Residential
Citric acid	T-bone	Reckitt Benckiser LLC	Wipe	777-139	Hard Nonporous (HN); Food Contact Post-Rinse Required (FCR)	Healthcare; Institutional; Residential
Citric acid	Volcano	CR Brands Inc	Wipe	95337-1	Hard Nonporous (HN); Food Contact Post-Rinse Required (FCR)	Institutional; Residential
Citric acid; Thymol	SBT 2 to 1 Concentrate	Melaleuca Inc	Dilutable	66251-2	Hard nonporous	Residential
Dodecylbenzene-sulfonic acid; Lactic acid	CW32A-RTU	Ecolab Inc	RTU	1677-259	Hard nonporous	Healthcare; Institutional; Residential
Dodecylbenzenesulfonic acid; Lactic acid	S&S Sanitizer	Ecolab Inc	Dilutable	1677-260	Hard nonporous	Healthcare; Institutional; Residential
Ethanol	Lysol Neutra Air® 2 in 1	Reckitt Benckiser	RTU	777-136	Hard nonporous	Healthcare; Institutional; Residential
Ethanol	Mitersaw	GOJO Industries Inc	Wipe	84150-2	Hard nonporous	Institutional; Residential
Ethanol	PURELL Professional Surface Disinfectant Wipes	GOJO Industries Inc	Wipe	84150-1	Hard nonporous	Healthcare; Institutional; Residential
Ethanol	Saginaw	Clorox Professional Products Company	RTU	67619-29	Hard nonporous	Healthcare; Institutional; Residential
Ethanol	Urthpro	Urthtech LLC	RTU	84368-1	Hard nonporous	Healthcare; Institutional; Residential

Hydrogen peroxide	Accel (Concentrate) Disinfectant Cleaner	Virox Technologies Inc	Dilutable	74559-4	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Accel 5 RTU	Virox Technologies Inc	RTU	74559-8	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Accel TB	Virox Technologies Inc	RTU	74559-1	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Accel TB Wipes	Virox Technologies Inc	Wipe	74559-3	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Angel	Reckitt Benckiser LLC	RTU	777-126	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Binary Ionization Technology (BIT) Solution	Tomi Environmental Solutions Inc	Fog; Mist	90150-2	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Clorox Commercial Solutions® Clorox® Disinfecting Biostain & Odor Remover	Clorox Professional Products Company	RTU	67619-33	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen Peroxide	Clorox Commercial Solutions® Hydrogen Peroxide Cleaner Disinfectant	Clorox Professional Products Company	RTU	67619-24	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Clorox Commercial Solutions® Hydrogen Peroxide Cleaner Disinfectant Wipes	Clorox Professional Products Company	Wipe	67619-25	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Clorox Pet Solutions Advanced Formula Disinfecting Stain & Odor Remover	The Clorox Company	RTU	5813-110	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	D7 Part 2	Decon7 Systems LLC	Dilutable	89833-4	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	DS-6640	Lonza LLC	RTU	6836-385	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	DS6809	Lonza LLC	Wipe	6836-388	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen Peroxide	EasyDECON Part 2	EFT Holdings Inc	RTU	74436-2	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Nathan 2	S.C. Johnson Professional	RTU	89900-1	Hard nonporous	Healthcare; Institutional; Residential

						Residential
Hydrogen peroxide	Nathan 2	S.C. Johnson Professional	RTU	89900-1	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	NeoSan Labs Part B	Neosan Labs Inc	Dilutable	93672-2	Hard Nonporous (HN); Food Contact Post-Rinse Required (FCR)	Healthcare; Institutional; Residential
Hydrogen peroxide	Oxivir™ Wipes	Diversey Inc	Wipe	70627-60	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Oxy-1 RTU	Virox Technologies Inc	RTU	74559-9	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Oxy-1 Wipes	Virox Technologies Inc	Wipe	74559-10	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Oxy-res (Concentrate)	Virox Technologies Inc	Dilutable	74559-6	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Oxy-Team™ Disinfectant Cleaner	Diversey Inc	Dilutable	70627-58	Hard nonporous	Healthcare; Institutional; Residential
Hydrogen peroxide	Proxi Home General Disinfectant Cleaner Spray	Innovasource LLC	RTU	85837-4	Hard nonporous	Healthcare; Institutional; Residential
Lactic acid	WC Complete	Combat Insect Control Systems	RTU	64240-65	Hard nonporous	Healthcare; Institutional; Residential
L-Lactic Acid	Fangio	S.C. Johnson & Son Inc	RTU	4822-606	Hard nonporous	Institutional; Residential
L-Lactic acid	Gurney	S.C. Johnson & Son Inc	RTU	4822-608	Hard nonporous	Institutional; Residential
L-Lactic Acid	Windex Disinfectant Cleaner	S.C. Johnson & Son Inc	RTU	4822-593	Hard nonporous	Institutional; Residential
Thymol	Benefect Botanical Daily Cleaner Disinfectant Spray	Cleanwell LLC	RTU	84683-3	Hard nonporous	Healthcare; Institutional; Residential
Thymol	Benefect Botanical Daily Cleaner Disinfectant Towelette	Cleanwell LLC	Wipe	84683-4	Hard nonporous	Healthcare; Institutional; Residential
Thymol	Ready to Use Thymol	Wexford Labs Inc	RTU	34810-25	Hard nonporous	Healthcare; Institutional; Residential
Thymol	Thymox Disinfectant Spray	Laboratoire M2	RTU	87742-1	Hard nonporous	Healthcare; Institutional; Residential

Non-Residential

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