



Safer Disinfectants, by Surface & Formulation Type

Surface Type	Formulation Type	Sample Product Name	Company	Reg No. and Active Ingredient(s)	Follow the disinfection directions and preparation for the following virus			
					Contact Time (in minutes)	Healthcare	Institutional	Residential
Hard Nonporous (HN)	Dilutable	Accel (Concentrate) Disinfectant Cleaner	Virox Technologies Inc	74559-4 (Hydrogen peroxide)	5	Y	Y	Y
		D7 Part 2	Decon7 Systems LLC	89833-4 (Hydrogen peroxide)	10	Y	Y	Y
HN		HASTE-SSD-Component A	Steris Corporation	1043-125 (Tetraacetyl ethylenediamine)	1	Y		
HN		HASTE-SSD-Component B	Steris Corporation	1043-124 (Hydrogen peroxide)	1	Y		
HN		HP202	Midlab	45745-11 (Hydrogen peroxide)	1	Y	Y	
HN		LEXX™ Liquid Sanitizer and Cleaner Concentrate	ProNatural Brands LLC	91452-1 (Citric acid)	10	Y	Y	Y
HN		MDF-200 Part B	Span-World LLC	91899-2 (Hydrogen peroxide)	10	Y	Y	
HN		NeoSan Labs Part B	Neosan Labs Inc	93672-2 (Hydrogen peroxide)	10	Y	Y	Y
HN		Oxy-res (Concentrate)	Virox Technologies Inc	74559-6 (Hydrogen peroxide)	5	Y	Y	Y
HN		Oxy-Team™ Disinfectant Cleaner	Diversey Inc	70627-58 (Hydrogen peroxide)	5	Y	Y	
HN		Peroxy HDOX	Earth Laboratories Inc	84198-1 (Hydrogen peroxide)	5	Y	Y	
HN		Photo 1:64 Disinfectant Cleaner	Diversey Inc	70627-62 (Hydrogen peroxide)	5	Y	Y	
HN		SBT 2 to 1 Concentrate	Melaleuca Inc	66251-2 (Citric acid; Thymol)	10			Y
HN	Dilutable; Electrostatic spray	Peroxide Multi Surface Cleaner and Disinfectant	Ecolab Inc	1677-238 (Hydrogen peroxide)	0.5	Y	Y	
HN		S&S Sanitizer	Ecolab Inc	1677-260 (Dodecylbenzenesulfonic acid; L-Lactic acid)	0.25	Y	Y	Y
HN		Binary Ionization Technology (BIT) Solution	Tomi Environmental Solutions Inc	90150-2 (Hydrogen peroxide)	15	Y	Y	Y
HN	Fog; Mist	CUROxide™	Curis System LLC	93324-1 (Hydrogen peroxide)	30	Y	Y	Y
HN	Ready-to-use	Accel 5 RTU	Virox Technologies Inc	74559-8 (Hydrogen peroxide)	5	Y	Y	Y
HN		Accel TB	Virox Technologies Inc	74559-1 (Hydrogen peroxide)	1	Y	Y	Y
HN		All-Purpose Disinfectant Spray	Innovasource LLC	85837-5 (Hydrogen peroxide)	10	Y	Y	Y
HN		Angel	Reckitt Benckiser LLC	777-126 (Hydrogen peroxide)	10	Y	Y	Y
HN		Benefect Botanical Daily Cleaner Disinfectant Spray	Cleanwell LLC	84683-3 (Thymol)	10	Y	Y	Y
HN		Benefect Broad Spectrum Disinfectant	Cleanwell LLC	84683-1 (Thymol)	5	Y	Y	Y
HN		Bona STL Disinfecting Cleaner	Bonakemi USA Inc	91861-2 (Hydrogen peroxide)	10	Y	Y	Y
HN		Charleston	GOJO Industries Inc	84150-4 (Ethanol (Ethyl alcohol))	0.5	Y	Y	
HN		Clean Well Broad Spectrum Disinfectant	Cleanwell LLC	84683-5 (Thymol)	5	Y	Y	Y
HN		Cleancide	Wexford Labs Inc	34810-35 (Citric acid)	5	Y	Y	
HN		Clippicide Spray	King Research Inc	954-10 (Isopropanol (Isopropyl alcohol); Phenolic)	10			Y
HN		Clorox Commercial Solutions®	Clorox Professional Products Company	67619-33 (Hydrogen peroxide)	5	Y	Y	Y
HN		Clorox® Disinfecting Bleach & Odor Remover	Clorox Professional Products Company	67619-33 (Hydrogen peroxide)	5	Y	Y	Y

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					SARS-CoV-2	Enterovirus D68; Norovirus; Rhinovirus	Feline calicivirus; Norovirus				
HN		Clorox Commercial Solutions® Hydrogen Peroxide Cleaner Disinfectant	Clorox Professional Products Company	67619-24 (Hydrogen peroxide)	Y	Y	0.5	Y	Y	Y	
HN		Clorox Pet Solutions Advanced Formula Disinfecting Stain & Odor Remover	The Clorox Company	5813-110 (Hydrogen peroxide)	Y	Y	5	Y	Y	Y	
HN		Comet Disinfecting Bathroom Cleaner	The Proctor & Gamble Company	3573-54 (Citric acid) 1677-262	Y	Y	10	Y	Y	Y	
HN		Disinfectant 1 Spray	Ecolab Inc	(Dodecylbenzenesulfonic Acid)	Y	Y	1	Y	Y	Y	
HN		DS-6640	Lonza LLC	6836-385 (Hydrogen peroxide)	Y	Y	3	Y	Y	Y	
HN		DS6835	Lonza LLC	6836-442 (Hydrogen peroxide)	Y	Y	1	Y	Y	Y	
HN		EasyDECON Part 2	EFT Holdings Inc	74436-2 (Hydrogen peroxide)	Y	Y	10	Y	Y	Y	
HN		Facility + RTU	Midlab	45745-12 (Hydrogen peroxide)	Y	Y	1	Y	Y	Y	
HN		Fangio	S.C. Johnson & Son Inc	4822-606 (L-Lactic acid)	Y	Y	10	Y	Y	Y	
HN		Freak	Method Products Inc	75277-2 (Citric acid)	Y	Y	10	Y	Y	Y	
HN		G&O CARTU	Guy & O'Neill Inc	50757-5 (Citric acid)	Y	Y	10	Y	Y	Y	
HN		Gurney	S.C. Johnson & Son Inc	4822-608 (L-Lactic acid)	Y	Y	5	Y	Y	Y	
HN		Hydra	Church & Dwight Company Inc	10772-21 (Hydrogen peroxide)	Y	Y	5	Y	Y	Y	
HN		Hygeia	S.C. Johnson & Son Inc	4822-592 (L-Lactic acid)	Y	Y	5	Y	Y	Y	
HN		Klercide 70/30 IPA	Ecolab Inc	1677-249 (Isopropanol (isopropyl alcohol))	Y	Y	5	Y	Y	Y	
HN		Lyso® Bathroom Cleaner	Reckitt Benckiser LLC	675-55 (Citric acid)	Y	Y	5	Y	Y	Y	
HN		Lyso® Neutra Air® 2 in 1	Reckitt Benckiser LLC	777-136 (Ethanol (Ethyl alcohol))	Y	Y	0.5	Y	Y	Y	
HN		Nathan 2	S.C. Johnson Professional	89900-1 (Hydrogen peroxide)	Y	Y	5	Y	Y	Y	
HN		Oxivir™ 1	Diversey Inc	70627-74 (Hydrogen peroxide)	Y	Y	1	Y	Y	Y	
HN		Oxivir™ HC Disinfectant Cleaner	Diversey Inc	70627-79 (Hydrogen peroxide)	Y	Y	1	Y	Y	Y	
HN		Oxivir™ HC Wipes	Diversey Inc	70627-80 (Hydrogen peroxide)	Y	Y	1	Y	Y	Y	
HN		Oxy-1 RTU	Virox Technologies Inc	74559-9 (Hydrogen peroxide)	Y	Y	0.5	Y	Y	Y	
HN		PELS 422	The Gilla Company LLC	91176-2 (1,2-Hexanediol)	Y	Y	10	Y	Y	Y	
HN		Peroxide Disinfectant And Glass Cleaner RTU	Ecolab Inc	1677-251 (Hydrogen peroxide)	Y	Y	0.5	Y	Y	Y	
HN		Proxi Home General Disinfectant Cleaner Spray	Innovasource LLC	85837-4 (Hydrogen peroxide)	Y	Y	10	Y	Y	Y	
HN		Ready to Use Thymol	Wexford Labs Inc	34810-25 (Thymol)	Y	Y	10	Y	Y	Y	

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HN		Saginaw	Clorox Professional Products Company	67619-29 (Ethanol (Ethyl alcohol))	Coxsackievirus; Hepatitis A virus; Rhinovirus; Rotavirus	5	Y	Y	Y
HN		Salsa	GOJO Industries Inc	84150-3 (Ethanol (Ethyl alcohol))	Hepatitis A virus	1	Y	Y	Y
HN		Sani-Cide EX3 (10X) RTU	Celeste Industries Corp	42048-4 (L-Lactic acid)	Feline calicivirus	10		Y	
HN		Sani-HyPerCide Germicidal Spray	Professional Disposables International Inc	9480-14 (Hydrogen peroxide)	Norovirus	1	Y	Y	
HN		Suretouch	Diversey Inc	70627-78 (Hydrogen peroxide)	Human coronavirus	5	Y	Y	
HN		Swipe Clean 70/30 IPA	Community Chemical	97755-1 (Isopropanol (Isopropyl alcohol))	Rhinovirus Type 37	5	Y	Y	
HN		Thymox Disinfectant Spray	Laboratoire M2	87742-1 (Thymol)	SARS-CoV-2	1	Y	Y	Y
HN		Urthpro	Urthtech LLC	84368-1 (Ethanol (Ethyl alcohol))	Hepatitis A virus	1	Y	Y	Y
HN		WC Complete	Combat Insect Control Systems	64240-65 (L-Lactic acid)	Rhinovirus	0.5	Y	Y	Y
HN		Windex Disinfectant Cleaner	S.C. Johnson & Son Inc	4822-593 (L-Lactic acid)	SARS-CoV-2	10	Y	Y	Y
HN	Ready-to-use, Electrostatic spray	CW32A-RTU	Ecolab Inc	1677-259 (Dodecylbenzenesulfonic acid; L-Lactic acid)	SARS-CoV-2	0.25	Y	Y	Y
HN		Oxivir™ Tb	Diversey Inc	70627-56 (Hydrogen peroxide)	Norovirus; Rhinovirus; Poliovirus Type 1	1	Y	Y	
HN	Vapor (use in conjunction with VHP generator)	B-Cap™ 35 Antimicrobial Agent	PeroxyChem LLC	72372-1 (Hydrogen peroxide)	Use this product for sterilization as instructed in the Consult Bioquell Hydrogen Peroxide Vapor (HPV) User's Equipment Manual				Y
HN		Vaprox Hydrogen Peroxide Sterilant	Steris Corporation	58779-4 (Hydrogen peroxide)	Use this product for sterilization as instructed in the Consult Vaporized Hydrogen Peroxide (VHP®) User's Equipment Manual				Y
HN	Wipe	Accel TB Wipes	Virox Technologies Inc	74559-3 (Hydrogen peroxide)	SARS-CoV-2	1	Y	Y	Y
HN		Arm & Hammer Essentials™ Disinfecting Wipes	CR Brands Inc	95337-1 (Citric acid)	Rhinovirus	5	Y	Y	Y
HN		Benefect Botanical Daily Cleaner Disinfectant Towelette	Cleanwell LLC	84683-4 (Thymol)	Rhinovirus	10	Y	Y	Y
HN		CAT	The Clorox Company	5813-127 (Citric acid)	Rotavirus; Norovirus	5	Y	Y	Y
HN		CleanCide Wipes	Wexford Labs Inc	34810-36 (Citric acid)	Rhinovirus; Feline calicivirus	5	Y	Y	Y
HN		Clorox Commercial Solutions® Hydrogen Peroxide Cleaner Disinfectant Wipes	Clorox Professional Products Company	67619-25 (Hydrogen peroxide)	SARS-CoV-2	0.5	Y	Y	Y
HN		Disinfectant 1 Wipe	Ecolab Inc	1677-263 (Dodecylbenzenesulfonic Acid)	Norovirus; Canine parvovirus	1	Y	Y	Y
HN		DS6809	Lonza LLC	6836-388 (Hydrogen peroxide)	Feline calicivirus	3	Y	Y	Y
HN		Mitersaw	GOJO Industries Inc	84150-2 (Ethanol (Ethyl alcohol))	Feline calicivirus	5	Y	Y	Y



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HN		Oxiclean Laundry and Home Sanitizer	Church & Dwight Company Inc	10772-25 (Sodium carbonate peroxyhydrate; Tetraacetyl ethylenediamine)	SARS-CoV-2	15	Y	Y	Y		
		Oxivir™ 1 Wipes	Diversey Inc	70627-77 (Hydrogen peroxide)	Enterovirus D68	1	Y	Y			
		Oxivir™ Wipes	Diversey Inc	70627-60 (Hydrogen peroxide)	Norovirus; Poliovirus Type 1; Rhinovirus Type 14	1	Y	Y	Y		
		Oxy-1 Wipes	Virox Technologies Inc	74559-10 (Hydrogen peroxide)	Poliovirus	0.5	Y	Y	Y		
		PURELL Professional Surface Disinfectant Wipes	GOJO Industries Inc	84150-1 (Ethanol (Ethyl alcohol))	Norovirus	5	Y	Y	Y		
		Sani-HyPerCide Germicidal Disposable Wipe	Professional Disposables International Inc	9480-16 (Hydrogen peroxide)	Adenovirus; Rotavirus; Rhinovirus; Feline calicivirus	1	Y				
		T-bone	Reckitt Benckiser LLC	777-139 (Citric acid)	Human coronavirus	5	Y	Y	Y		
		Wexford Disinfectant Wipes	Wexford Labs Inc	34810-37 (Citric acid)	Rhinovirus	3	Y	Y	Y		
		FCNR	Dilutable	S&S Sanitizer	Ecolab Inc	1677-260 (Dodecylbenzenesulfonic acid; L-Lactic acid)	SARS-CoV-2	0.25	Y	Y	Y
				CW32A-RTU	Ecolab Inc	1677-259 (Dodecylbenzenesulfonic acid; L-Lactic acid)	SARS-CoV-2	0.25	Y	Y	Y
S&S Sanitizer	Ecolab Inc			1677-260 (Dodecylbenzenesulfonic acid; L-Lactic acid)	SARS-CoV-3	0.25	Y	Y	Y		
CW32A-RTU	Ecolab Inc			1677-259 (Dodecylbenzenesulfonic acid; L-Lactic acid)	SARS-CoV-2	0.25	Y	Y	Y		
Beneffect Botanical Daily Cleaner Disinfectant Spray	Cleanwell LLC			84683-3 (Thymol)	Rhinovirus	10	Y	Y	Y		
Beneffect Broad Spectrum Disinfectant	Cleanwell LLC			84683-1 (Thymol)	Mycobacterium bovis	5	Y	Y	Y		
Charleston	GOJO Industries Inc			84150-4 (Ethanol (Ethyl alcohol))	Hepatitis A virus	0.5	Y	Y			
Clean Well Broad Spectrum Disinfectant	Cleanwell LLC			84683-5 (Thymol)	Mycobacterium bovis	5	Y	Y	Y		
Salsa	GOJO Industries Inc			84150-3 (Ethanol (Ethyl alcohol))	Hepatitis A virus	1	Y	Y	Y		
Thymox Disinfectant Spray	Laboratorie M2			87742-1 (Thymol)	SARS-CoV-2	1	Y	Y	Y		
FCNR	Ready-to-use	Urthpro	Urthtech LLC	84368-1 (Ethanol (Ethyl alcohol))	Hepatitis A virus	1	Y	Y	Y		
		Use this product for sterilization as instructed in the Consult user manual or (VHP®) User's Equipment Manual									
FCNR	Vapor (use in conjunction with VHP generator)	Vaprox Hydrogen Peroxide Sterilant	Steris Corporation	58779-4 (Hydrogen peroxide)					Y		
FCNR	Wipe	Beneffect Botanical Daily Cleaner Disinfectant Towelette	Cleanwell LLC	84683-4 (Thymol)	Rhinovirus	10	Y	Y	Y		



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FCNR		PURELL Professional Surface Disinfectant Wipes	GOJO Industries Inc	84150-1 (Ethanol (Ethyl alcohol))	Norovirus	5	Y	Y	Y
Food Contact Post-Rinse Required (FCR)	Dilutable	HP202	Midlab	45745-11 (Hydrogen peroxide)	SARS-CoV-2	1	Y	Y	Y
		MDF-200 Part B	Span-World LLC	91899-2 (Hydrogen peroxide)	Feline calicivirus	10	Y	Y	Y
FCR		NeoSan Labs Part B	Neosan Labs Inc	93672-2 (Hydrogen peroxide)	Norovirus	10	Y	Y	Y
FCR		Oxiclean Laundry and Home Sanitizer	Church & Dwight Company Inc	10772-25 (Sodium carbonate peroxyhydrate; Tetraacetyl ethylenediamine)	SARS-CoV-2	15	Y	Y	Y
FCR	Electrostatic spray	Oxivir™ Tb	Diversey Inc	70627-56 (Hydrogen peroxide)	Norovirus; Rhinovirus; Poliovirus Type 1	1	Y	Y	Y
FCR	Fog; Mist	Binary Ionization Technology (BIT) Solution	Tomi Environmental Solutions Inc	90150-2 (Hydrogen peroxide)	Feline calicivirus	15	Y	Y	Y
FCR	Ready-to-use	Bona STL Disinfecting Cleaner	Bonakemi USA Inc	91861-2 (Hydrogen peroxide)	Rhinovirus	10	Y	Y	Y
FCR		Clorox Commercial Solutions® Hydrogen Peroxide Cleaner Disinfectant	Clorox Professional Products Company	67619-24 (Hydrogen peroxide) 1677-262 (Dodecylbenzenesulfonic Acid)	SARS-CoV-2	0.5	Y	Y	Y
FCR		Disinfectant 1 Spray	Ecolab Inc	74436-2 (Hydrogen peroxide)	Norovirus; Canine parvovirus	1	Y	Y	Y
FCR		EasyDECON Part 2	EFT Holdings Inc	74436-2 (Hydrogen peroxide)	Hepatitis A virus; Rhinovirus;	10	Y	Y	Y
FCR		Facility + RTU	Midlab	45745-12 (Hydrogen peroxide)	Feline calicivirus	1	Y	Y	Y
FCR		G&O CARTU	Guy & O'Neill Inc	50757-5 (Citric acid)	SARS-CoV-2	10	Y	Y	Y
FCR		Hygeia	S.C. Johnson & Son Inc	4822-592 (L-Lactic acid)	Feline calicivirus; Rhinovirus; Type 37	5	Y	Y	Y
FCR		Lyso® Bathroom Cleaner	Reckitt Benckiser LLC	675-55 (Citric acid)	Rotavirus	5	Y	Y	Y
FCR		Lyso® Neutra Air® 2 in 1	Reckitt Benckiser LLC	777-136 (Ethanol (Ethyl alcohol))	Poliovirus	5	Y	Y	Y
FCR		Oxivir™ HC Disinfectant Cleaner	Diversey Inc	70627-79 (Hydrogen peroxide)	Human coronavirus	0.5	Y	Y	Y
FCR		Oxivir™ HC Wipes	Diversey Inc	70627-80 (Hydrogen peroxide)	Feline calicivirus; Rhinovirus; Adenovirus; Rotavirus;	1	Y	Y	Y
FCR		Oxivir™ Tb	Diversey Inc	70627-56 (Hydrogen peroxide)	Poliovirus	1	Y	Y	Y
FCR		Ready to Use Thymol	Wexford Labs Inc	34810-25 (Thymol)	Norovirus; Rhinovirus; Poliovirus Type 1	10	Y	Y	Y
FCR		Saginaw	Clorox Professional Products Company	67619-29 (Ethanol (Ethyl alcohol))	Feline calicivirus	10	Y	Y	Y
FCR	Wipe	Arm & Hammer Essentials™ Disinfecting Wipes	CR Brands Inc	95337-1 (Citric acid)	Coxsackievirus; Hepatitis A virus; Rhinovirus; Rotavirus	5	Y	Y	Y
FCR		CAT	The Clorox Company	5813-127 (Citric acid)	Rhinovirus	5	Y	Y	Y
FCR		CleanCide Wipes	Wexford Labs Inc	34810-36 (Citric acid)	Rhinovirus; Feline calicivirus	5	Y	Y	Y



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FCR		Disinfectant 1 Wipe	Ecolab Inc	1677-263 (Dodecylbenzenesulfonic Acid)	Norovirus; Canine parvovirus	1	Y	Y	
FCR		Sani-HyPerCide Germicidal Disposable Wipe	Professional Disposables International Inc	9480-16 (Hydrogen peroxide)	Adenovirus; Rotavirus; Rhinovirus; Feline calicivirus	1	Y		
FCR		T-bone	Reckitt Benckiser LLC	777-139 (Citric acid)	Human coronavirus	5	Y	Y	Y
FCR		Wexford Disinfectant Wipes	Wexford Labs Inc	34810-37 (Citric acid)	Rhinovirus	3	Y	Y	Y
Porous (P)	Vapor (use in conjunction with VHP generator)	B-Cap™ 35 Antimicrobial Agent	PeroxyChem LLC	72372-1 (Hydrogen peroxide)	Use this product for sterilization as instructed in the Consult Bioquell Hydrogen Peroxide Vapor (HPV) User's Equipment Manual			Y	
P		Vaprox Hydrogen Peroxide Sterilant	Steris Corporation	58779-4 (Hydrogen peroxide)	Use this product for sterilization as instructed in the Consult Vaporized Hydrogen Peroxide (VHP®) User's Equipment Manual			Y	
P	Dilutable	Oxiclean Laundry and Home Sanitizer	Church & Dwight Company Inc	10772-25 (Sodium carbonate peroxyhydrate; Tetraacetyl ethylenediamine)	SARS-CoV-2	15	Y	Y	Y

Have products on hand? Check your label for its active ingredient.

Active ingredients which should be AVOIDED and have been excluded from this list include: Quaternary ammonium compounds (QAC - label does not specify a substance is a QAC but often ends in "ammonium chloride"; Most common QAC in disinfectants are benzalkonium chlorides); Chlorine compounds / bleach (sodium hypochlorite, hypochlorous acid, sodium chlorite, sodium chloride); Sodium dichloro-s-trizinetriene; Ammonium carbonate; Ammonium bicarbonate; Peroxyacetic acid (peracetic acid); Glutaraldehyde; Glycolic acid; Hydrochloric acid; Octanoic acid. Active ingredients which are SAFER and approved by CDC and EPA N list: Hydrogen peroxide; Isopropyl alcohol (isopropanol); Ethanol; Thymol; L-lactic acid; Citric acid.

EPA List N is periodically updated. For changes to EPA List N, since this chart was generated on 3/8/21, click here: [bit.ly/ListN-change-report](https://www.epa.gov/pesticide-registration/epa-list-n-pesticides)

For more information on Safer Disinfectants, contact Maryland Pesticide Education Network at mdpestnet.org or email info@mdpestnet.org.

Maryland Pesticide Education Network reviews the disinfectants on EPA's List N, which are approved for use against the novel coronavirus, but it is only possible to review the active ingredients. One product on the list, for example, contains 99.7784% "other ingredients." Unfortunately, although this product may contain mostly water, it also may be composed mostly of such "inert" ingredients as 4-chlorotoluene, ethylbenzene, or petroleum distillates, all of which (among others) can weaken the respiratory and/or immune systems, making an exposed person more susceptible to Covid-19. We don't know.

"Inert" ingredients are not necessarily chemically or biologically harmless. "Inert" or "other" ingredients—as distinguished from "active" ingredients—are generally the majority of the product formulation that makes up the liquid, spray, dust, or granule, but does not specifically attack the pest, according to the manufacturer. They include emulsifiers, solvents, carriers, aerosol propellants, fragrances, and dyes. Many "inerts" are quite toxic, and may be "active" ingredients in other products. "Inert" ingredients may also be described as "adjuvants" or "formulants." "Inerts" are typically not listed on the label, and hence are often called "secret ingredients."

Special thanks to Margie Roswell for her work in creating this document.