

Volunteer Responders and COVID-19

Global Rescue Systems, a 501(c)(3) non-profit helping volunteer responders and Creating Tomorrow, an organizational development and risk management consulting firm have teamed up to help inform our nations volunteer responders about methods of interaction with patients and COVID-19.

This document is intended to provide one with some best practices to follow which should help reduce the spread of the COVID-19 virus. Our list is not exhaustive; however, it is built from reliable sources of information, not general news media releases which contain a lot of misinformation. All sources are documented at the end of this paper and additional information is included in the appendix.

Irregardless of how remote your department may be, the risk of COVID-19 reaching your area is very real. In the 52 days prior to the writing of this document the virus spread from its first case in the United States to well over 1600 cases by March 13, 2020 and it is still growing. Due to the rapid rate of spread and no current vaccines available, nor will we have one for quite some time. It is up to the responders to help mitigate the spread of this disease. Although the mortality rate is not as high as other diseases, it still has a mortality rate and as a responder we must do what we can to protect our community.

We urge you to take these mitigation methods and work them into our response protocols. If you have additional information that will help others, please share it with us and allow us to share the information with others. The only way for us to beat this virus is to take proactive mitigation measures and work together.

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History

The Corona Virus named COVID-19 first discovered in Wuhan, China December 2019 first appeared in the United States (US) January, 21 2020 (*What EMS and 911 need to know about COVID 19*, 2020). The virus is one of a larger family of viruses which causes illnesses ranging from a cold to severe diseases (*UTMB Health*, 2020). The virus has an incubation period of 2 to 14 days and one can transmit the virus while remaining asymptomatic (*What EMS and 911 need to know about COVID 19*, 2020).

Spread

The virus has grown and will continue to grow at an exponential rate. It is estimated that one individual will infect two to three others (Majumder & Mandl, 2020). Thus to give a basic idea how this spread can work consider doubling of 500 cases, after 11 periods of doubling there will be more than 1 million cases (Roser et al., 2020). It is for this very reason one must take proactive measures to reduce and slow the spread of this virus. From the first case in January, 52 days later on March 13, 1629 cases have emerged with 41 deaths in the US with reports from 46 states and the District of Columbia (CDC, 2020c). At this point in time it is not possible to accurately predict the expected fatality rate or if it will burn out in the summer months (CDC, 2020a).

The virus spreads by airborne droplets, and contact with surfaces that have been exposed to the virus (CDC & CDC, 2020). The virus can live on a variety of surfaces from a few minutes to nine days depending on the type of surface and ambient temperature (Kampf et al., 2020). Due to the life span of the virus a secondary exposure risk to a responder or patient is possible.

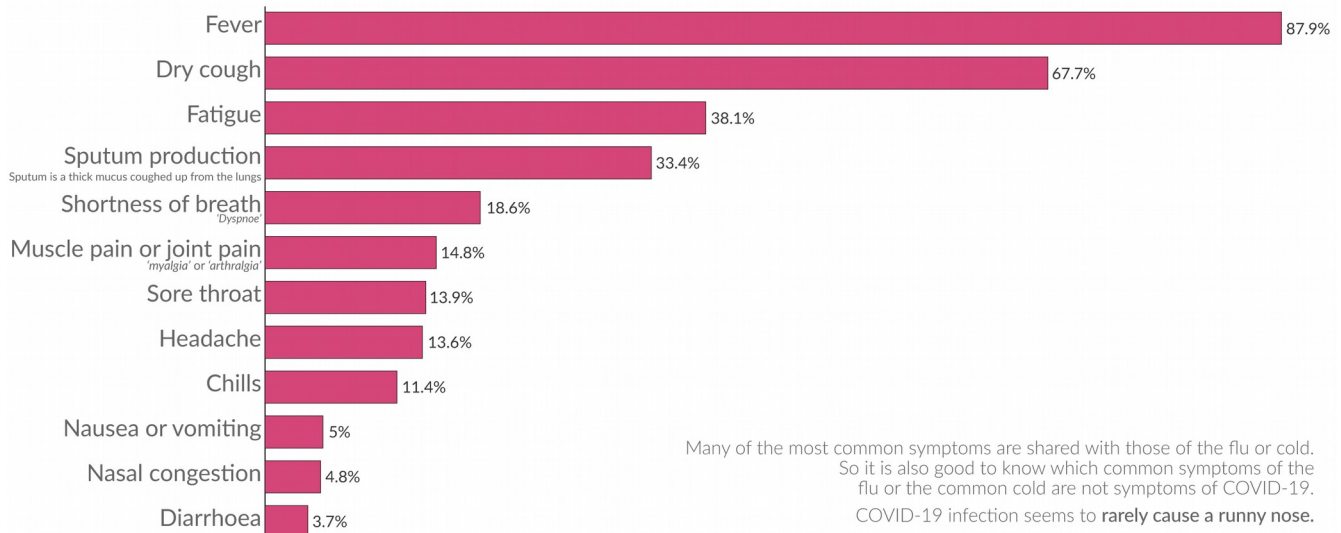
Warning Signs

There are many articles in the media with Coronavirus warning signs; however, many of these signs are given in incorrect context. The following chart should help clear up warning signs.

The symptoms of coronavirus disease [COVID-19]

Our World
in Data

The most common signs and symptoms of 55,924 laboratory confirmed cases of COVID-19. Reported from China in the period up to February 22, 2020



Data source: World Health Organization (2020). Report of the WHO-China Joint Mission on Coronavirus Disease 2019 (COVID-19). Symptoms in fewer than 1% are not shown. OurWorldinData.org – Research and data to make progress against the world's largest problems. Licensed under CC-BY by the authors.

As one can see, the most significant signs are fever, dry cough, and fatigue. However one must be aware that the top three are the most common symptoms, it does not dictate that the other symptoms are not an important indicator, they are just less common but still important to note.

Mitigation

As a responder there are several actions one should take, in this section we discuss recommended protocols and actions based on best available information from vetted and qualified sources. It is a key point to note exposure is two way, either the responder can carry it to a new patient or a patient can carry it to a responder. The following protocols should be adapted to any type of call that will cause the responder to engage with a patient, including but not limited to medical calls, auto accidents, wellbeing checks, etc. Remember it is the patient one does not suspect that will contaminate oneself (*What EMS and 911 need to know about COVID 19, 2020*).

Check your personal protective equipment (PPE) stock, one should have medical gloves, masks N-95 or greater, safety eye-wear, and disposable gowns (CDC, 2020b; "IAFF Coronavirus Disease 2019 (COVID-19)," n.d.). Surgical masks are **not recommended for the responder** to use; however, it can be useful to place on a patient to reduce the traveling of contaminated droplets from coughs (*What EMS and 911 need to know about COVID 19, 2020*).

Don your PPE before entering the area of the patient (*What EMS and 911 need to know about COVID 19, 2020*). Assume the patient is infected until you confirm otherwise from your 6 foot social distance, put on additional PPE if needed. If you believe the patient is infected use full recommended PPE,

gloves, gown, goggles, and mask. You do not want to be the secondary carrier and spread the virus to the next patient or responder.

Limit personnel exposures, only those that must be in the area of the patient should be there, all others should be outside the treatment area or structure (*What EMS and 911 need to know about COVID 19, 2020*).

Isolate the family away from you, your crew, and the patient (CDC, 2020b; *What EMS and 911 need to know about COVID 19, 2020*).

Begin patient assessment from six feet away to determine your exposure risks (*What EMS and 911 need to know about COVID 19, 2020*).

Notify other responding units of any signs and symptoms of COVID-19 (CDC, 2020b).

Documentation of patient care should be written after the patient is removed, PPE is removed, and proper hand hygiene has been performed (CDC, 2020b).

All equipment used during patient care that is not disposable should be sanitized immediately, while wearing clean PPE (CDC, 2020b; "IAFF Coronavirus Disease 2019 (COVID-19)," n.d.). Use EPA registered hospital grade disinfectants (CDC, 2020b).

A list of approved disinfectants is at <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2> as well as a copy of the document is attached to the end of this document.

Clean and disinfect vehicle after each run, all surfaces may have come in contact with the disease and the disease will remain alive for several hours to several days on vehicle surfaces (CDC, 2020b; Majumder & Mandl, 2020).

Properly Doff your PPE (Assistant Secretary for Preparedness and Response, 2017). A guide is attached to the end of this document or you may look at it online at the following URL.

https://www.cdc.gov/hai/pdfs/ppe/PPE-Sequence.pdf?link_id=4&can_id=f64fc84982fba80a967f20cfe3e08344&source=email-fire-fighters-quarantined-with-coronavirus-exposure&email_referrer=email_742045&email_subject=covid-19-alert

Additionally Doff PPE in a proper area to reduce cross contamination (Assistant Secretary for Preparedness and Response, 2017).

Properly dispose of used PPE, do not just throw it in the trash (Assistant Secretary for Preparedness and Response, 2017).

Cleaning of your street wear is just as important as cleaning of the equipment, if you have been exposed do not take the virus home with you. Clean up and change clothes and place contaminated clothes in a bag for proper cleaning separate from other laundry (*How Officers Can Minimize Exposure to COVID-19 Coronavirus, 2020*).

If a responder is exposed then quarantine and isolate them for 14 days, to monitor for signs and symptoms of the virus (“IAFF Coronavirus Disease 2019 (COVID-19),” n.d.). This should also be documented for workers compensation.

Ensure everyone is properly trained and fit tested for the N-95 respirators (CDC, 2020b).

After handling of patients or equipment proper hand washing is required. Wash hands with soap and water for at least 20 seconds, if this is not available use hand sanitizer with an alcohol content of at least 60% (CDC, 2020d).

If you or your crew are coughing cover your face, use a tissue, or wear mask (CDC, 2020d).

Avoid touching your face at all times especially when using PPE around patients (CDC, 2020d).

References

- Assistant Secretary for Preparedness and Response. (2017). *EMS Infectious Disease Playbook*. 86.
- CDC. (2020a, February 11). *Coronavirus Disease 2019 (COVID-19) FAQ*. Centers for Disease Control and Prevention. <https://www.cdc.gov/coronavirus/2019-ncov/faq.html>
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- CDC. (2020c, March 13). *Coronavirus Disease 2019 (COVID-19) in the U.S.* Centers for Disease Control and Prevention. <https://www.cdc.gov/coronavirus/2019-ncov/cases-in-us.html>
- CDC. (2020d, March 14). *Coronavirus Disease 2019 (COVID-19) – Prevention & Treatment*. Centers for Disease Control and Prevention. <https://www.cdc.gov/coronavirus/2019-ncov/prepare/prevention.html>
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- How Officers Can Minimize Exposure to COVID-19 Coronavirus*. (2020, February 27). In Public Safety. <https://inpublicsafety.com/2020/02/how-officers-can-minimize-exposure-to-covid-19-coronavirus/>
- IAFF Coronavirus Disease 2019 (COVID-19). (n.d.). *IAFF*. Retrieved March 15, 2020, from <https://www.iaff.org/coronavirus/>
- Kampf, G., Todt, D., Pfaender, S., & Steinmann, E. (2020). Persistence of coronaviruses on inanimate surfaces and their inactivation with biocidal agents. *Journal of Hospital Infection*, 104(3), 246–251. <https://doi.org/10.1016/j.jhin.2020.01.022>

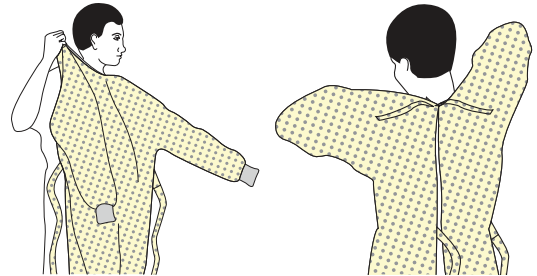
- Majumder, M. S., & Mandl, K. D. (2020). *Early Transmissibility Assessment of a Novel Coronavirus in Wuhan, China* (SSRN Scholarly Paper ID 3524675). Social Science Research Network. <https://doi.org/10.2139/ssrn.3524675>
- Roser, M., Ritchie, H., & Ortiz-Ospina, E. (2020). Coronavirus Disease (COVID-19) – Statistics and Research. *Our World in Data*. <https://ourworldindata.org/coronavirus>
- UTMB Health. (2020). <https://www.utmb.edu/covid-19>
- What EMS and 911 need to know about COVID 19*. (2020, February 24). <https://www.youtube.com/watch?v=ZrnbufgDqjo>

SEQUENCE FOR **PUTTING ON** PERSONAL PROTECTIVE EQUIPMENT (PPE)

The type of PPE used will vary based on the level of precautions required, such as standard and contact, droplet or airborne infection isolation precautions. The procedure for putting on and removing PPE should be tailored to the specific type of PPE.

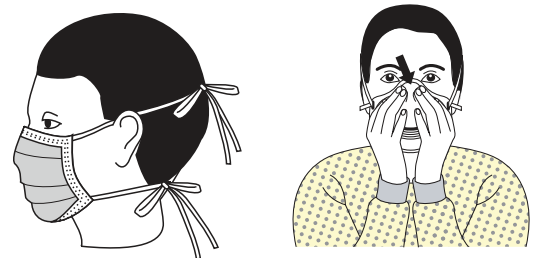
1. GOWN

- Fully cover torso from neck to knees, arms to end of wrists, and wrap around the back
- Fasten in back of neck and waist



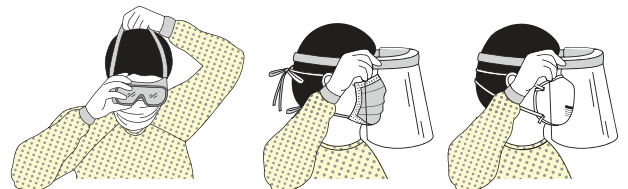
2. MASK OR RESPIRATOR

- Secure ties or elastic bands at middle of head and neck
- Fit flexible band to nose bridge
- Fit snug to face and below chin
- Fit-check respirator



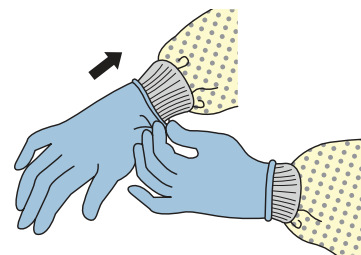
3. GOGGLES OR FACE SHIELD

- Place over face and eyes and adjust to fit



4. GLOVES

- Extend to cover wrist of isolation gown



USE SAFE WORK PRACTICES TO PROTECT YOURSELF AND LIMIT THE SPREAD OF CONTAMINATION

- Keep hands away from face
- Limit surfaces touched
- Change gloves when torn or heavily contaminated
- Perform hand hygiene



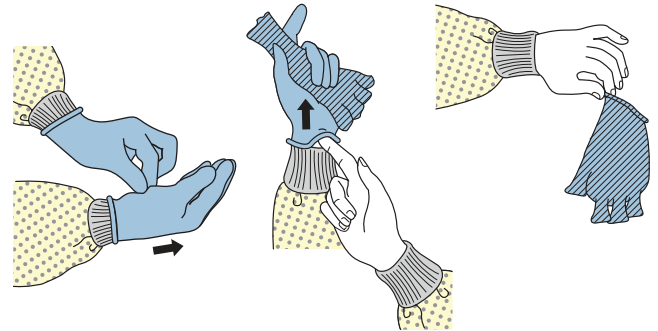
HOW TO SAFELY REMOVE PERSONAL PROTECTIVE EQUIPMENT (PPE)

EXAMPLE 1

There are a variety of ways to safely remove PPE without contaminating your clothing, skin, or mucous membranes with potentially infectious materials. Here is one example. **Remove all PPE before exiting the patient room** except a respirator, if worn. Remove the respirator **after** leaving the patient room and closing the door. Remove PPE in the following sequence:

1. GLOVES

- Outside of gloves are contaminated!
- If your hands get contaminated during glove removal, immediately wash your hands or use an alcohol-based hand sanitizer
- Using a gloved hand, grasp the palm area of the other gloved hand and peel off first glove
- Hold removed glove in gloved hand
- Slide fingers of ungloved hand under remaining glove at wrist and peel off second glove over first glove
- Discard gloves in a waste container



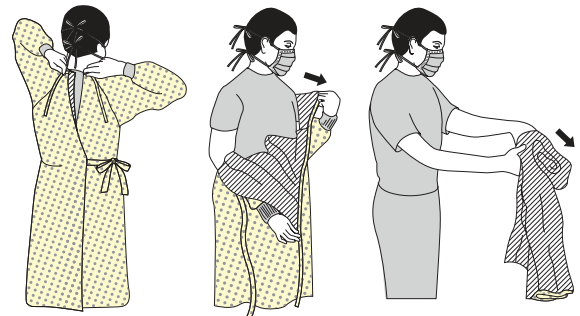
2. GOGGLES OR FACE SHIELD

- Outside of goggles or face shield are contaminated!
- If your hands get contaminated during goggle or face shield removal, immediately wash your hands or use an alcohol-based hand sanitizer
- Remove goggles or face shield from the back by lifting head band or ear pieces
- If the item is reusable, place in designated receptacle for reprocessing. Otherwise, discard in a waste container



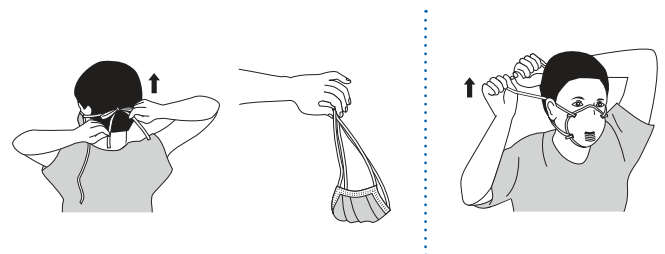
3. GOWN

- Gown front and sleeves are contaminated!
- If your hands get contaminated during gown removal, immediately wash your hands or use an alcohol-based hand sanitizer
- Unfasten gown ties, taking care that sleeves don't contact your body when reaching for ties
- Pull gown away from neck and shoulders, touching inside of gown only
- Turn gown inside out
- Fold or roll into a bundle and discard in a waste container

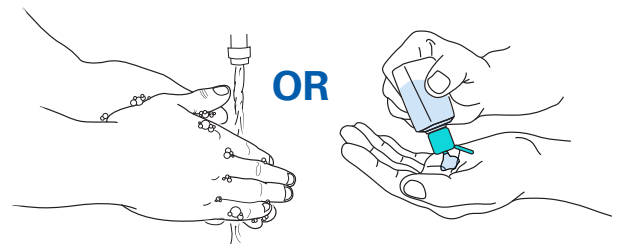


4. MASK OR RESPIRATOR

- Front of mask/respirator is contaminated — **DO NOT TOUCH!**
- If your hands get contaminated during mask/respirator removal, immediately wash your hands or use an alcohol-based hand sanitizer
- Grasp bottom ties or elastics of the mask/respirator, then the ones at the top, and remove without touching the front
- Discard in a waste container



5. WASH HANDS OR USE AN ALCOHOL-BASED HAND SANITIZER IMMEDIATELY AFTER REMOVING ALL PPE



PERFORM HAND HYGIENE BETWEEN STEPS IF HANDS BECOME CONTAMINATED AND IMMEDIATELY AFTER REMOVING ALL PPE

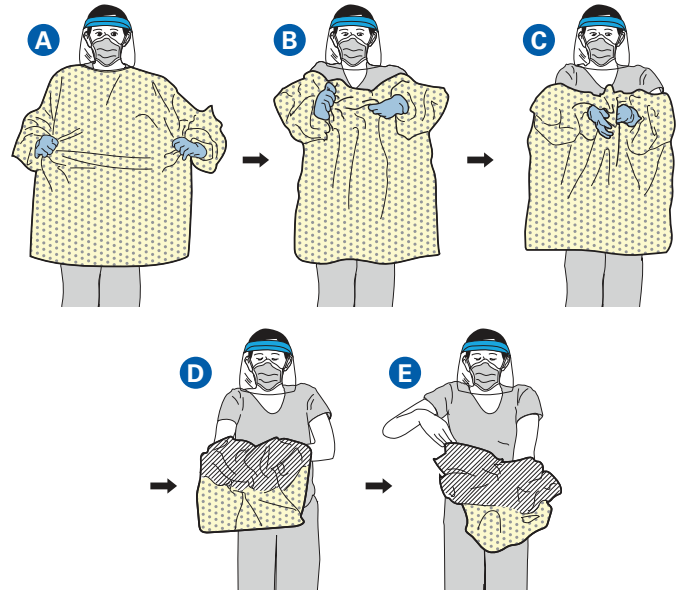


HOW TO SAFELY REMOVE PERSONAL PROTECTIVE EQUIPMENT (PPE) EXAMPLE 2

Here is another way to safely remove PPE without contaminating your clothing, skin, or mucous membranes with potentially infectious materials. **Remove all PPE before exiting the patient room** except a respirator, if worn. Remove the respirator **after** leaving the patient room and closing the door. Remove PPE in the following sequence:

1. GOWN AND GLOVES

- Gown front and sleeves and the outside of gloves are contaminated!
- If your hands get contaminated during gown or glove removal, immediately wash your hands or use an alcohol-based hand sanitizer
- Grasp the gown in the front and pull away from your body so that the ties break, touching outside of gown only with gloved hands
- While removing the gown, fold or roll the gown inside-out into a bundle
- As you are removing the gown, peel off your gloves at the same time, only touching the inside of the gloves and gown with your bare hands. Place the gown and gloves into a waste container



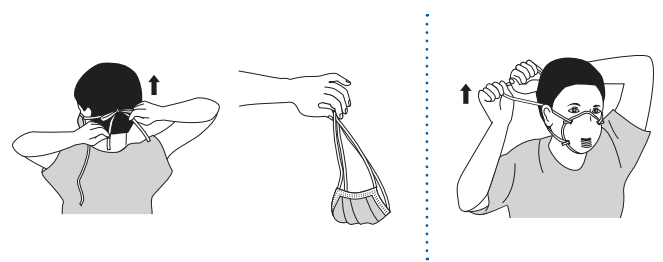
2. GOGGLES OR FACE SHIELD

- Outside of goggles or face shield are contaminated!
- If your hands get contaminated during goggle or face shield removal, immediately wash your hands or use an alcohol-based hand sanitizer
- Remove goggles or face shield from the back by lifting head band and without touching the front of the goggles or face shield
- If the item is reusable, place in designated receptacle for reprocessing. Otherwise, discard in a waste container

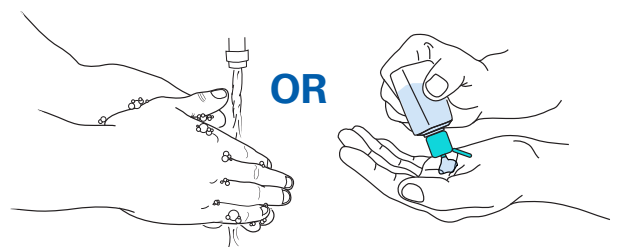


3. MASK OR RESPIRATOR

- Front of mask/respirator is contaminated — **DO NOT TOUCH!**
- If your hands get contaminated during mask/respirator removal, immediately wash your hands or use an alcohol-based hand sanitizer
- Grasp bottom ties or elastics of the mask/respirator, then the ones at the top, and remove without touching the front
- Discard in a waste container



4. WASH HANDS OR USE AN ALCOHOL-BASED HAND SANITIZER IMMEDIATELY AFTER REMOVING ALL PPE



PERFORM HAND HYGIENE BETWEEN STEPS IF HANDS BECOME CONTAMINATED AND IMMEDIATELY AFTER REMOVING ALL PPE



List N: Products with Emerging Viral Pathogens AND Human Coronavirus claims for use against SARS-CoV-2
Date Accessed: 03/15/2020

EPA Registration Number	Active Ingredient/s	Product Name	Company	Follow the disinfection directions and preparation for the following virus	Contact time (time surface should remain wet)	Formulation Type	Emerging Viral Pathogen Claim?	Date Added to List N
10324-105	Quaternary ammonium	MAQUAT 128 PD	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-108	Quaternary ammonium	MAQUAT 256-MN	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-112	Quaternary ammonium	MAQUAT 128-MN	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-113	Quaternary ammonium	MAQUAT 64-MN	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-114	Quaternary ammonium	MAQUAT 32-MN	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-115	Quaternary ammonium	MAQUAT 750-M	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-117	Quaternary ammonium	MAQUAT 710-M	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-140	Quaternary ammonium	MAQUAT MQ2525M-CPV	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-141	Quaternary ammonium	MAQUAT 256-NHQ	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-142	Quaternary ammonium	MAQUAT MQ2525M-14	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-154	Quaternary ammonium	MAQUAT 64-NHQ	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-155	Quaternary ammonium	MAQUAT 128-NHQ	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-156	Quaternary ammonium	MAQUAT 512-NHQ	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-157	Quaternary ammonium	MAQUAT 32-NHQ	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020

EPA Registration Number	Active Ingredient/s	Product Name	Company	Follow the disinfection directions and preparation for the following virus	Contact time (time surface should remain wet)	Formulation Type	Emerging Viral Pathogen Claim?	Date Added to List N
10324-164	Quaternary ammonium	MAQUAT 256 PD	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-166	Quaternary ammonium	MAQUAT 32	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-167	Quaternary ammonium	MAQUAT 32 PD	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-177	Quaternary ammonium	MAQUAT 705-M	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-194	Quaternary ammonium	MAQUAT 2420-10	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-198	Quaternary ammonium	MAQUAT 702.5-M	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-214	Hydrogen Peroxide; Peroxyacetic Acid	MAGUARD 5626	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-230	Hydrogen Peroxide; Peroxyacetic Acid	MAGUARD 1522	MASON CHEMICAL COMPANY	Coronavirus	1 minute	DILUTABLE	N	03/03/2020
10324-57	Quaternary ammonium	MAQUAT 42	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-58	Quaternary ammonium	MAQUAT 128	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-63	Quaternary ammonium	MAQUAT 10	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-71	Quaternary ammonium	MAQUAT 280	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-72	Quaternary ammonium	MAQUAT 615-HD	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-80	Quaternary ammonium	MAQUAT 5.5-M	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-81	Quaternary ammonium	MAQUAT 7.5-M	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-85	Quaternary ammonium	MAQUAT 86-M	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020

EPA Registration Number	Active Ingredient/s	Product Name	Company	Follow the disinfection directions and preparation for the following virus	Contact time (time surface should remain wet)	Formulation Type	Emerging Viral Pathogen Claim?	Date Added to List N
			COMPANY					
10324-93	Quaternary ammonium	MAQUAT 64-PD	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-94	Quaternary ammonium	MAQUAT 20-M	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-96	Quaternary ammonium	MAQUAT50-DS	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10324-99	Quaternary ammonium	MAQUAT 10-PD	MASON CHEMICAL COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
10492-4	Quaternary ammonium; Isopropanol	DISCIDE ULTRA DISINFECTING TOWELETTES	PALMERO HEALTHCARE, LLC	Coronavirus	30 second	WIPE	N	03/03/2020
10492-5	Quaternary ammonium; Isopropanol	DISCIDE ULTRA DISINFECTING SPRAY	PALMERO HEALTHCARE, LLC	Coronavirus	30 second	RTU	N	03/03/2020
11346-4	Quaternary ammonium	CLOROX QS	THE CLOROX COMPANY	Coronavirus	2 minutes	RTU	N	03/03/2020
1672-65	Sodium hypochlorite	AUSTIN A-1 ULTRA DISINFECTING BLEACH	JAMES AUSTIN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1672-67	Sodium hypochlorite	AUSTIN'S A-1 CONCENTRATED BLEACH 8.25%	JAMES AUSTIN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1677-129	Hydrogen Peroxide; Peroxyacetic Acid	COSA OXONIA ACTIVE	Ecolab Inc	Poliovirus	10 minutes	DILUTABLE	Y	03/03/2020
1677-204	Octanoic acid	65 DISINFECTING HEAVY DUTY ACID BATHROOM CLEANER	ECOLAB, INC.	Coronavirus	2 minutes	DILUTABLE	N	03/03/2020
1677-226	Hydrogen Peroxide; Octanoic Acid; Peroxyacetic Acid	VIRASEPT	Ecolab Inc	Norovirus; Rhinovirus	4 minutes	RTU	Y	03/03/2020

EPA Registration Number	Active Ingredient/s	Product Name	Company	Follow the disinfection directions and preparation for the following virus	Contact time (time surface should remain wet)	Formulation Type	Emerging Viral Pathogen Claim?	Date Added to List N
1677-233	Quaternary ammonium	MULTI-PURPOSE DISINFECTANT CLEANER	ECOLAB, INC.	Coronavirus	1 minute	DILUTABLE	N	03/03/2020
1677-235	Sodium hypochlorite	BLEACH DISINFECTANT CLEANER	Ecolab Inc	Murine Norovirus; Poliovirus; Rhinovirus	1 minute	RTU	Y	03/03/2020
1677-237	Hydrogen Peroxide; Peroxyacetic Acid	OXYCIDE DAILY DISINFECTANT CLEANER	Ecolab Inc	Feline Calicivirus; Rhinovirus	3 minutes	DILUTABLE	Y	03/03/2020
1677-238	Hydrogen Peroxide	PEROXIDE MULTI SURFACE CLEANER AND DISINFECTANT	Ecolab Inc/Kay Chemical Co.	Canine Parvovirus	5 minutes	DILUTABLE	Y	03/03/2020
1677-241	Sodium hypochlorite	HYDRIS	ECOLAB, INC.	Coronavirus	5 minutes	RTU	N	03/03/2020
1677-249	Isopropanol	KLERCIDE 70/30 IPA	Ecolab Inc	Rhinovirus	5 minutes	RTU	Y	03/03/2020
1677-250	Hydrogen peroxide; peroxyoctanoic acid; peroxyacetic acid	Synergex	Ecolab Inc	Reovirus	5 minutes	DILUTABLE	Y	03/03/2020
1677-251	Hydrogen Peroxide	PEROXIDE DISINFECTANT AND GLASS CLEANER RTU	Ecolab Inc/Kay Chemical Co.	Canine Parvovirus	5 minutes	RTU	Y	03/03/2020
1677-256	Quaternary ammonium	FSC 35K	ECOLAB, INC.	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-155	Quaternary ammonium	BTC 2125M 20% SOLUTION	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1839-166	Quaternary ammonium	BTC 885 NDC-128	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1839-167	Quaternary ammonium	BTC 885 NEUTRAL DISINFECTANT CLEANER-256	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1839-168	Quaternary ammonium	BTC 885 NDC-32	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1839-169	Quaternary ammonium	BTC 885 NEUTRAL DISINFECTANT CLEANER-64	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020

EPA Registration Number	Active Ingredient/s	Product Name	Company	Follow the disinfection directions and preparation for the following virus	Contact time (time surface should remain wet)	Formulation Type	Emerging Viral Pathogen Claim?	Date Added to List N
1839-176	Quaternary ammonium	LIQUID-PAK NEUTRAL DISINFECTANT CLEANER	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1839-190	Quaternary ammonium	STEPAN DISINFECTANT WIPE	STEPAN COMPANY	Coronavirus	10 minutes	WIPE	N	03/03/2020
1839-211	Quaternary ammonium	SC-AHD-64	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-212	Quaternary ammonium	SC-AHD-256	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-213	Quaternary ammonium	SC-AHD-128	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-214	Quaternary ammonium	SC-NDC-256	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-215	Quaternary ammonium	SC-NDC-128	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-220	Quaternary ammonium	SC-RTU DISINFECTANT CLEANER	STEPAN COMPANY	Poliovirus	5 minutes	RTU	Y	03/03/2020
1839-225	Quaternary ammonium	SC-RTU-TB	STEPAN COMPANY	Coronavirus	2 minutes	RTU	N	03/03/2020
1839-233	Quaternary ammonium	SC-5:64N	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-235	Quaternary ammonium	SC-5:256N	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-236	Quaternary ammonium	SC-5:128N	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-244	Quaternary ammonium	SC -5:64HN	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-245	Quaternary ammonium	SC-5:256HN	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-246	Quaternary ammonium	SC-5:128HN	STEPAN COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
1839-248	Quaternary ammonium	Stepan Spray Disinfectant Concentrate	STEPAN COMPANY	Rhinovirus	5 minutes	DILUTABLE	Y	03/03/2020
1839-78	Quaternary ammonium	NP 3.2 DETERGENT/ DISINFECTANT	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1839-79	Quaternary ammonium	NP 4.5 DETERGENT/ DISINFECTANT	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1839-81	Quaternary ammonium	NP 9.0 DETERGENT/	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020

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		DISINFECTANT						
1839-83	Quaternary ammonium	DETERGENT DISINFECTANT PUMP SPRAY	STEPAN COMPANY	Canine Parvovirus	10 minutes	RTU	Y	03/03/2020
1839-86	Quaternary ammonium	BTC 2125 M 10% SOLUTION	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1839-94	Quaternary ammonium	NP 3.2 (D & F) DETERGENT/ DISINFECTANT	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1839-95	Quaternary ammonium	NP 4.5 (D & F) DETERGENT/ DISINFECTANT	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
1839-96	Quaternary ammonium	NP 9.0 (D & F) DETERGENT/ DISINFECTANT	STEPAN COMPANY	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
34810-31	Phenolic	WEX-CIDE 128	WEXFORD LABS, INC.	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
37549-1	Sodium Hypochlorite	MICRO-KILL BLEACH GERMICIDAL BLEACH WIPES	MEDLINE INDUSTRIES INC	Norovirus	30 SECONDS	WIPE	Y	03/03/2020
37549-2	Sodium Hypochlorite	MICRO-KILL BLEACH SOLUTION	MEDLINE INDUSTRIES INC	Norovirus	30 SECONDS	RTU	Y	03/03/2020
3862-191	Quaternary ammonium	ASSURE	ABC COMPOUNDING CO., INC	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
4091-20	Quaternary ammonium	PHOENIX 2	W.M. BARR & COMPANY, INC.	Coronavirus	1 minute	RTU	N	03/03/2020
4091-22	Quaternary ammonium; Citric acid	RAPTOR 5	W.M. BARR & COMPANY, INC	Rhinovirus	5 minutes	RTU	Y	03/03/2020
4091-23	Sodium hypochlorite; Sodium carbonate	MOLD ARMOR FORMULA 400	W.M. BARR & COMPANY, INC.	Coronavirus	30 seconds	RTU	N	03/03/2020

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42182-9	Quaternary ammonium; Ethanol	FIREBIRD F130	MICROBAN PRODUCTS COMPANY	Poliovirus; Norovirus	5 minutes	RTU	Y	03/03/2020
42964-17	Quaternary ammonium; ethanol	ASEPTICARE	AIRKEM PROFESSIONAL PRODUCTS	Coronavirus	2 minutes	RTU	N	03/03/2020
44446-23	Quaternary ammonium	Germ Away	Quest Specialty Corp.	Canine parvovirus	10 minutes	RTU	Y	03/03/2020
46781-12	Quaternary ammonium; Ethanol; Isopropanol	CAVICIDE 1	METREX RESEARCH	Adenovirus; Rotavirus; Feline Calicivirus	3 minutes	RTU	Y	03/03/2020
46781-13	Quaternary ammonium; Ethanol; Isopropanol	CAVIWIPES 1	METREX RESEARCH	Adenovirus	3 minutes	WIPE	Y	03/03/2020
46781-14	Sodium Hypochlorite	CAVIWIPES BLEACH	METREX RESEARCH	Feline calicivirus	3 minute	WIPE	Y	03/03/2020
46781-15	Sodium Hypochlorite	CAVICIDE BLEACH	METREX RESEARCH	Poliovirus; Rhinovirus	3 minutes	RTU	Y	03/03/2020
46781-6	Quaternary ammonium; Isopropanol	CAVICIDE	METREX RESEARCH	Coronavirus	2 minutes	RTU	N	03/03/2020
47371-129	Quaternary ammonium	FORMATION HWS-256	H&S CHEMICALS DIVISION OF LONZA, LLC	Adenovirus	10 minutes	DILUTABLE	Y	03/03/2020
47371-130	Quaternary ammonium	FORMULATION HWS-128	H&S CHEMICALS DIVISION OF LONZA, LLC	Adenovirus	10 minutes	DILUTABLE	Y	03/03/2020
47371-131	Quaternary ammonium	HWS-64	H&S CHEMICALS DIVISION OF LONZA, LLC	Adenovirus	10 minutes	DILUTABLE	Y	03/03/2020
47371-192	Quaternary ammonium	FORMULATION HWS-32	H&S CHEMICALS DIVISION OF LONZA, LLC	Adenovirus	10 minutes	DILUTABLE	Y	03/03/2020
4822-548	Triethylene glycol; Quaternary ammonium	COMBO	S.C. JOHNSON & SON, INC.	Coronavirus	5 minutes	PRESSURIZED LIQUID	N	03/03/2020

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4822-606	L-Lactic Acid	FANGIO	S.C. JOHNSON & SON, INC.	Coronavirus	10 minutes	RTU	N	03/03/2020
4822-607	Quaternary ammonium	LAUDA	S.C. JOHNSON & SON, INC.	Coronavirus	5 minutes	RTU	N	03/03/2020
4822-608	L-Lactic Acid	GURNEY	S.C. JOHNSON & SON, INC.	Coronavirus	5 minutes	RTU	N	03/03/2020
4822-609	Quaternary ammonium	STEWART	S.C. JOHNSON & SON, INC.	Coronavirus	3 minutes	RTU	N	03/03/2020
4822-613	Quaternary ammonium	GERTRUDE	S.C. JOHNSON & SON, INC.	Coronavirus	5 minutes	RTU	N	03/03/2020
54289-4	Peroxyacetic Acid	PERACLEAN 15 (PEROXYACETIC ACID SOLUTION)	EVONIK CORPORATION	Coronavirus	1 minute	DILUTABLE	N	03/03/2020
56392-10	Sodium Hypochlorite	CALTECH SWAT 200 9B	CLOROX PROFESSIONAL PRODUCTS COMPANY	Coronavirus	2 minutes	RTU	N	03/03/2020
56392-7	Sodium hypochlorite	Clorox Healthcare® Bleach Germicidal Cleaner Spray	Clorox Professional Products Company	Canine Parvovirus; Feline Panleukopenia Virus; Hepatitis A Virus; Norovirus; Poliovirus; Rhinovirus	1 minute	RTU	Y	03/03/2020
5813-100	Sodium hypochlorite	PUMA	The Clorox Company	Canine parvovirus	10 minutes	DILUTABLE	Y	03/03/2020
5813-102	Sodium hypochlorite	CGB1	The Clorox Company	Canine parvovirus	10 minutes	DILUTABLE	Y	03/03/2020
5813-103	Sodium hypochlorite	CGB3	CLOROX CO., THE	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
5813-104	Sodium hypochlorite	CGB4	CLOROX CO., THE	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
5813-105	Sodium hypochlorite	Clorox Multi Surface Cleaner + Bleach	The Clorox Company	Rhinovirus; Canine Parvovirus; Feline Panleukopenia Virus; Norovirus; Poliovirus	1 minute	RTU	Y	03/03/2020

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5813-106	Sodium hypochlorite	AXL	CLOROX CO., THE	Coronavirus	1 minute	RTU	N	03/03/2020
5813-109	Quaternary ammonium	SAY Q	The Clorox Company	Rotavirus	10 minutes	RTU	Y	03/03/2020
5813-110	Hydrogen Peroxide	Clorox Pet Solutions Advanced Formula Disinfecting Stain & Odor Remover	The Clorox Company	Enterovirus D68; Norovirus; Rhinovirus	5 minutes	RTU	Y	03/03/2020
5813-111	Sodium hypochlorite	Clorox Disinfecting Bleach2	The Clorox Company	Canine Parvovirus; Feline Parvovirus	10 minutes	DILUTABLE	Y	03/03/2020
5813-113	Quaternary ammonium	CDW	The Clorox Company	Rotavirus	4 minutes	WIPE	Y	03/03/2020
5813-114	Sodium hypochlorite	Clorox Performance Bleach1	The Clorox Company	Canine Parvovirus; Feline Parvovirus	10 minutes	DILUTABLE	Y	03/03/2020
5813-115	Quaternary ammonium	Clorox Scentiva Bathroom Disinfecting Foam Cleaner	The Clorox Company	Rotavirus	5 minutes	RTU	Y	03/03/2020
5813-118	Quaternary ammonium	DASH	The Clorox Company	Rotavirus	10 minutes	RTU	Y	03/03/2020
5813-21	Sodium hypochlorite	Clorox Clean Up Cleaner + Bleach	The Clorox Company	Norovirus; Poliovirus	5 minutes	RTU	Y	03/03/2020
5813-40	Quaternary ammonium	Clorox Disinfecting Bathroom Cleaner	The Clorox Company	Rhinovirus	10 minutes	RTU	Y	03/03/2020
5813-50	Sodium hypochlorite	ULTRA CLOROX BRAND REGULAR BLEACH	CLOROX CO., THE	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
5813-58	Quaternary ammonium	SPRUCE-UPS	The Clorox Company	Rotavirus	15 seconds	WIPE	Y	03/03/2020
5813-73	Quaternary ammonium	CLOROX EVEREST	CLOROX CO., THE	Coronavirus	30 seconds	RTU	N	03/03/2020
5813-79	Quaternary ammonium	Clorox Disinfecting Wipes	The Clorox Company	Rotavirus	4 minutes	WIPE	Y	03/03/2020

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5813-86	Glycolic Acid	CBW	CLOROX CO., THE	Coronavirus	10 minutes	IMPREGNATED MATERIALS	N	03/03/2020
5813-89	Sodium hypochlorite	Clorox Toilet Bowl Cleaner with Bleach	The Clorox Company	Rhinovirus; Rotavirus	10 minutes	RTU	Y	03/03/2020
5813-93	Glycolic Acid	SHOW	CLOROX CO., THE	Coronavirus	10 minutes	IMPREGNATED MATERIALS	N	03/03/2020
5813-98	Sodium hypochlorite	LITE	CLOROX CO., THE	Coronavirus	1 minute	RTU	N	03/03/2020
5813-99	Sodium hypochlorite	WAVE	CLOROX CO., THE	Coronavirus	1 minute	WIPE	N	03/03/2020
61178-1	Quaternary ammonium	D-125	MICROGEN, INC	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
61178-5	Quaternary ammonium	CCX-151	MICROGEN, INC	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
6198-4	Quaternary ammonium	Q. A. CONCENTRATED SOLUTION	NATIONAL CHEMICALS, INC.	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
62472-2	Quaternary ammonium	KENNELSOL HC	ALPHA TECH PET, INC.	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
63761-10	Quaternary ammonium; Sodium Carbonate Peroxyhydrate	STERILEX ULTRA STEP	STERILEX	Feline Calicivirus; Rotavirus	10 minutes	DILUTABLE	Y	03/03/2020
63761-8	Quaternary ammonium; Hydrogen Peroxide	STERILEX ULTRA DISINFECTANT CLEANER SOLUTION 1	STERILEX	Feline Calicivirus	10 minutes	DILUTABLE	Y	03/03/2020
6659-3	Quaternary ammonium	Spray Nine	ITW Permatex, Inc.	Norovirus; Rhinovirus; Poliovirus	30 seconds	RTU	Y	03/03/2020
675-54	Quaternary ammonium	LYSOL BRAND HEAVY DUTY CLEANER DISINFECTANT CONCENTRATE	RECKITT BENCKISER	Rotavirus	5 minutes	DILUTABLE	Y	03/03/2020
67619-10	Quaternary ammonium	CPPC EVEREST	CLOROX PROFESSIONAL PRODUCTS	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020

EPA Registration Number	Active Ingredient/s	Product Name	Company	Follow the disinfection directions and preparation for the following virus	Contact time (time surface should remain wet)	Formulation Type	Emerging Viral Pathogen Claim?	Date Added to List N
			COMPANY					
67619-11	Sodium Hypochlorite	CPPC SHOWER	COLORX PROFESSIONAL PRODUCTS COMPANY	Coronavirus	1 minute	RTU	N	03/03/2020
67619-12	Sodium hypochlorite	Clorox Healthcare® Bleach Germicidal Wipes	Clorox Professional Products Company	Canine Parvovirus; Feline Parvovirus	3 minutes	WIPE	Y	03/03/2020
67619-13	Sodium Hypochlorite	CPPC STORM	COLORX PROFESSIONAL PRODUCTS COMPANY	Coronavirus	1 minute	RTU	N	03/03/2020
67619-16	Sodium hypochlorite	Clorox Commercial Solutions® Toilet Bowl Cleaner with Bleach1	Clorox Professional Products Company	Rotavirus; Rhinovirus 39	10 minutes	RTU	Y	03/03/2020
67619-17	Sodium hypochlorite	Clorox Commercial Solutions® Clorox® Clean-Up Disinfectant Cleaner with Bleach1	Clorox Professional Products Company	Norovirus	5 minutes	RTU	Y	03/03/2020
67619-20	Quaternary ammonium	REX	COLORX PROFESSIONAL PRODUCTS COMPANY	Hepatitis A virus	10 minutes	RTU	Y	03/03/2020
67619-21	Quaternary ammonium; Ethanol	Clorox Commercial Solutions® Clorox® Disinfecting Spray	Clorox Professional Products Company	Coxsackie Virus; Echovirus; Feline Calicivirus; Hepatitis A Virus; Poliovirus	10 minutes	RTU	Y	03/03/2020
67619-24	Hydrogen Peroxide	Clorox Commercial Solutions® Hydrogen Peroxide Cleaner Disinfectant	Clorox Professional Products Company	Norovirus; Rhinovirus; Rotavirus	1 minutes	RTU	Y	03/03/2020

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67619-25	Hydrogen Peroxide	Clorox Commercial Solutions® Hydrogen Peroxide Cleaner Disinfectant Wipes	Clorox Professional Products Company	Norovirus	2 minutes	WIPE	Y	03/03/2020
67619-26	Sodium Hypochlorite	BORIS	CLOROX PROFESSIONAL PRODUCTS COMPANY	Canine parvovirus	10 minutes	DILUTABLE	Y	03/03/2020
67619-27	Sodium Hypochlorite	BUSTER	CLOROX PROFESSIONAL PRODUCTS COMPANY	Coronavirus	5 minutes	RTU	N	03/03/2020
67619-28	Sodium Hypochlorite	MILO	CLOROX PROFESSIONAL PRODUCTS COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
67619-29	Ethanol	Saginaw	Clorox Professional Products Company	Coxsackievirus; Hepatitis A Virus; Rhinovirus; Rotavirus	5 minutes	RTU	Y	03/03/2020
67619-30	Sodium hypochlorite	GNR	Clorox Professional Products Company	Coxsackievirus; Feline Calicivirus; Feline Panleukopenia Virus; Minute virus of mice; Poliovirus; Rhinovirus Type 37	1 minute	RTU	Y	03/03/2020
67619-31	Quaternary ammonium	Clorox Commercial Solutions® Clorox® Disinfecting Wipes	Clorox Professional Products Company	Rotavirus	4 minutes	WIPE	Y	03/03/2020
67619-32	Sodium hypochlorite	CloroxPro™ Clorox® Germicidal Bleach	Clorox Professional Products Company	Canine Parvovirus; Coxsackievirus B3 Virus; Enterovirus D68; Norovirus; Feline Parvovirus; Hepatitis A	5 minutes	DILUTABLE	Y	03/03/2020

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				Virus; Murine Norovirus; Poliovirus; Rhinovirus				
67619-33	Hydrogen Peroxide	Clorox Commercial Solutions® Clorox® Disinfecting Biostain & Odor Remover	Clorox Professional Products Company	Enterovirus, Norovirus; Rhinovirus Type 37	5 minutes	RTU	Y	03/03/2020
67619-35	Peracetic Acid; Hydrogen Peroxide	BLACKSMITH	CLOROX PROFESSIONAL PRODUCTS COMPANY	Rhinovirus	1 minute	RTU	Y	03/03/2020
67619-37	Quaternary ammonium	Clorox Healthcare® VersaSure® Wipes	Clorox Professional Products Company	Norovirus	5 minutes	WIPE	Y	03/03/2020
67619-38	Quaternary ammonium	CloroxPro™ Clorox Total 360® Disinfecting Cleaner1	Clorox Professional Products Company	Coxsackievirus Type B3	5 minutes	RTU	Y	03/03/2020
67619-41	Quaternary ammonium	PPD DASH	CLOROX PROFESSIONAL PRODUCTS COMPANY	Rotavirus	10 minutes	DILUTABLE	Y	03/03/2020
67619-8	Sodium Hypochlorite	CPPC ULTRA BLEACH 2	CLOROX PROFESSIONAL PRODUCTS COMPANY	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
67619-9	Quaternary ammonium	PJW-622	CLOROX PROFESSIONAL PRODUCTS COMPANY	Rotavirus	3 minutes	WIPE	Y	03/03/2020
6836-136	Quaternary ammonium	LONZA FORMULATION S-18F	LONZA, LLC	Feline calicivirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-139	Quaternary ammonium	LONZA	LONZA, LLC	Feline calicivirus	10 minutes	DILUTABLE	Y	03/03/2020

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6836-140	Quaternary ammonium	FORMULATION R-82F LONZA FORMULATION S-21F	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-152	Quaternary ammonium	LONZA FORMULATION DC-103	LONZA, LLC	Norovirus	10 minutes	RTU	Y	03/03/2020
6836-233	Quaternary ammonium	BARDAC 205M-50	LONZA, LLC	Coronavirus	1 minute	DILUTABLE	N	03/03/2020
6836-266	Quaternary ammonium	BARDAC 205M-10	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-277	Quaternary ammonium	BARDAC 205M-1.30	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-278	Quaternary ammonium	BARDAC 205M-14.08	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-289	Quaternary ammonium	BARDAC 205M RTU	LONZA, LLC	Norovirus	10 minutes	RTU	Y	03/03/2020
6836-302	Quaternary ammonium	BARDAC 205M-2.6	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-303	Quaternary ammonium	BARDAC 205M-5.2	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-305	Quaternary ammonium	BARDAC 205M-23	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-313	Quaternary ammonium	LONZA DISINFECTANT WIPES	LONZA, LLC	Rotavirus	10 minutes	WIPE	Y	03/03/2020
6836-336	Quaternary ammonium	LONZA DISINFECTANT WIPES PLUS	LONZA, LLC	Coronavirus	4 minutes	WIPE	N	03/03/2020
6836-340	Quaternary ammonium	LONZA DISINFECTANT WIPES PLUS 2	LONZA, LLC	Norovirus	10 minutes	WIPE	Y	03/03/2020
6836-346	Quaternary ammonium	LONZAGARD RCS-256	LONZA, LLC	Norovirus	5 minutes	DILUTABLE	Y	03/03/2020
6836-347	Quaternary ammonium	LONZAGARD RCS-128	LONZA, LLC	Feline calicivirus; Enterovirus	5 minutes	DILUTABLE	Y	03/03/2020
6836-348	Quaternary ammonium	LONZAGARD	LONZA, LLC	Feline calicivirus;	5 minutes	DILUTABLE	Y	03/03/2020

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6836-349	Quaternary ammonium	RCS-128 PLUS LONZAGARD RCS-256 PLUS	LONZA, LLC	Enterovirus Enterovirus D68; Norovirus	5 minutes	DILUTABLE	Y	03/03/2020
6836-361	Quaternary ammonium	NUGEN MB5A-256	LONZA, LLC	Norovirus	5 minutes	DILUTABLE	Y	03/03/2020
6836-362	Quaternary ammonium	NUGEN MB5A-128	LONZA, LLC	Norovirus	5 minutes	DILUTABLE	Y	03/03/2020
6836-363	Quaternary ammonium	NUGEN MB5A-64	LONZA, LLC	Norovirus	5 minutes	DILUTABLE	Y	03/03/2020
6836-364	Quaternary ammonium	NUGEN MB5N-256	LONZA, LLC	Norovirus	5 minutes	DILUTABLE	Y	03/03/2020
6836-365	Quaternary ammonium	NUGEN MB5N-128	LONZA, LLC	Norovirus	5 minutes	DILUTABLE	Y	03/03/2020
6836-366	Quaternary ammonium	NUGEN MB5N-64	LONZA, LLC	Norovirus	5 minutes	DILUTABLE	Y	03/03/2020
6836-372	Quaternary ammonium	NUGEN 2M DISINFECTANT WIPES	LONZA, LLC	Coronavirus	2 minutes	WIPE	N	03/03/2020
6836-381	Quaternary ammonium	LONZAGARD R-82G	LONZA, LLC	Coronavirus	1 minute	DILUTABLE	N	03/03/2020
6836-382	Quaternary ammonium	NUGEN LOW STREAK DISINFECTANT WIPES	LONZA, LLC	Coronavirus	4 minutes	WIPE	N	03/03/2020
6836-70	Quaternary ammonium	BARDAC 205M-7.5	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-75	Quaternary ammonium	LONZA FOUMLATION S-21	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-77	Quaternary ammonium	LONZA FORMULATION S- 18	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
6836-78	Quaternary ammonium	LONZA FORMULATION R- 82	LONZA, LLC	Norovirus	10 minutes	DILUTABLE	Y	03/03/2020
70060-19	Sodium chlorite; Sodium Dischloroisocyanurate dihydrate	ASEPTROL S10-TAB	BASF CORPORATION	Coronavirus	10 minutes	SOLID	N	03/03/2020
70144-4	Quaternary ammonium; ethanol	OPTI-CIDE MAX WIPES	MICRO-SCIENTIFIC, LLC	Coronavirus	2 minutes	WIPE	N	03/03/2020
70144-5	Quaternary ammonium;	OPTI-CIDE MAX	MICRO-SCIENTIFIC,	Coronavirus	2 minutes	RTU	N	03/03/2020

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	ethanol		LLC					
70271-13	Sodium Hypochlorite	PURE BRIGHT GERMICIDAL ULTRA BLEACH	KIK INTERNATIONAL LLC	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020
70385-6	Quaternary ammonium	QGC	PRORESTORE PRODUCTS	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
70590-2	Sodium Hypochlorite	BLEACH-RITE DISINFECTING SPRAY WITH BLEACH	CURRENT TECHNOLOGIES INC	Coronavirus	1 minute	RTU	N	03/03/2020
70627-15	Quaternary ammonium	WARRIOR	DIVERSEY, INC.	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
70627-2	Quaternary ammonium	DISINFECTANT D.C. 100	DIVERSEY, INC.	Coronavirus	2 minutes	RTU	N	03/03/2020
70627-23	Quaternary ammonium	VIREX II/ 64	DIVERSEY, INC.	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
70627-24	Quaternary ammonium	VIREX™ II / 256	Diversey, Inc.	Adenovirus Type 2	10 minutes	DILUTABLE	Y	03/03/2020
70627-35	Quaternary ammonium	ENVY FOAMING DISINFECTANT CLEANER	DIVERSEY, INC.	Coronavirus	3 minutes	DILUTABLE	N	03/03/2020
70627-56	Hydrogen Peroxide	OXIVIR Tb	Diversey, Inc.	Norovirus; Rhinovirus; Poliovirus Type 1	1 minute	RTU	Y	03/03/2020
70627-58	Hydrogen Peroxide	OXY-TEAM™ DISINFECTANT CLEANER	Diversey, Inc.	Canine Parvovirus; Feline Picornavirus	5 minutes	DILUTABLE	Y	03/03/2020
70627-6	Phenolic	PHENOLIC DISINFECTANT HG	DIVERSEY, INC.	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
70627-60	Hydrogen Peroxide	OXIVIR™ WIPES	Diversey, Inc.	Norovirus; Poliovirus Type 1; Rhinovirus Type 14	1 minute	WIPE	Y	03/03/2020
70627-62	Hydrogen Peroxide	PHATO 1:64 DISINFECTANT CLEANER	DIVERSEY, INC.	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020

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70627-63	Quaternary ammonium	512 SANITIZER	DIVERSEY, INC.	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
70627-72	Sodium hypochlorite	Avert Sporicidal Disinfectant Cleaner	Diversey, Inc.	Canine Parvovirus; Norovirus; Hepatitis A; Poliovirus Type 1	1 minute	DILUTABLE	Y	03/03/2020
70627-74	Hydrogen Peroxide	OXIVIR 1	Diversey, Inc.	Canine Parvovirus; Enterovirus Type D68	1 minute	RTU	Y	03/03/2020
70627-75	Sodium hypochlorite	AVERT SPORICIDAL DISINFECTANT CLEANER WIPES	DIVERSEY, INC.	Coronavirus	1 minute	WIPE	N	03/03/2020
70627-77	Hydrogen Peroxide	Oxivir 1 Wipes	Diversey, Inc.	Enterovirus Type D68	1 minute	WIPE	Y	03/03/2020
70627-78	Hydrogen Peroxide	SURETOUCH	DIVERSEY, INC.	Coronavirus	5 minutes	RTU	N	03/03/2020
71847-6	Sodium dichloro-s-triazinetrione	KLORSEPT	MEDENTECH LTD	Hepatitis A virus	10 minutes	DILUTABLE	Y	03/03/2020
71847-7	Sodium dichloro-s-triazinetrione	KLORKLEEN 2	MEDENTECH LTD	Hepatitis A virus	10 minutes	DILUTABLE	Y	03/03/2020
72977-3	Silver ion; Citric Acid	AXEN(R) 30	ETI H2O, INC.	Coronavirus	10 minutes	RTU	N	03/03/2020
72977-5	Silver ion; Citric Acid	SDC3A	ETI H2O, INC.	Coronavirus	1 minute	RTU	N	03/03/2020
74559-1	Hydrogen Peroxide	ACCEL TB	VIROX TECHNOLOGIES INC.	Poliovirus; Feline Calicivirus	1 minute	RTU	Y	03/03/2020
74559-10	Hydrogen Peroxide	OXY-1 WIPES	VIROX TECHNOLOGIES INC.	Poliovirus	30 seconds	WIPE	Y	03/03/2020
74559-3	Hydrogen Peroxide	ACCEL TB WIPES	VIROX TECHNOLOGIES INC.	Poliovirus	1 minute	WIPE	Y	03/03/2020
74559-4	Hydrogen Peroxide	ACCEL (CONCENTRATE) DISINFECTANT CLEANER	VIROX TECHNOLOGIES INC.	Poliovirus	5 minutes	DILUTABLE	Y	03/03/2020
74559-6	Hydrogen Peroxide	OXY-RES	VIROX	Coronavirus	5 minutes	DILUTABLE	N	03/03/2020

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		(CONCENTRATE)	TECHNOLOGIES INC.					
74559-8	Hydrogen Peroxide	ACCEL 5 RTU	VIROX TECHNOLOGIES INC.	Coronavirus	5 minutes	RTU	N	03/03/2020
74559-9	Hydrogen Peroxide	OXY-1 RTU	VIROX TECHNOLOGIES INC.	Poliovirus	30 seconds	RTU	Y	03/03/2020
74986-4	Sodium chlorite	SELECTROCIDE 2L500	SELECTIVE MICRO TECHNOLOGIES, LLC	Coronavirus	10 minutes	SOLUBLE CONCENTRATE	N	03/03/2020
74986-5	Sodium chlorite	SELECTROCIDE 5G	SELECTIVE MICRO TECHNOLOGIES, LLC	Coronavirus	10 minutes	SOLID	N	03/03/2020
777-114	Quaternary ammonium	STING	RECKITT BENCKISER LLC.	Rotavirus	10 minutes	WIPE	Y	03/03/2020
777-127	Quaternary ammonium; Ethanol	LYSOL® DISINFECTANT MAX COVER MIST	RECKITT BENCKISER	Norovirus	10 minutes	RTU	Y	03/03/2020
777-130	Quaternary ammonium	CATERPILLAR	RECKITT BENCKISER LLC.	Coronavirus	2.5 minutes	WIPE	N	03/03/2020
777-131	Hypochlorous acid	COUSTEAU	RECKITT BENCKISER LLC.	Coronavirus	10 minutes	RTU	N	03/03/2020
777-132	Hydrochloric Acid	LYSOL BRAND POWER PLUS TOILET BOWL CLEANER	RECKITT BENCKISER	Poliovirus Type 1	10 minutes	RTU	Y	03/03/2020
777-136	Ethanol	COUSTEAU P	RECKITT BENCKISER LLC.	Coronavirus	30 seconds	RTU	N	03/03/2020
777-66	Quaternary ammonium	LYSOL BRAND DISINFECTANT DIRECT MULTI-	RECKITT BENCKISER LLC.	Coronavirus	2 minutes	RTU	N	03/03/2020

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		PURPOSE CLEANER						
777-70	Quaternary ammonium	LYSOL BRAND CLING & FRESH TOILET BOWL CLEANER	RECKITT BENCKISER	Rotavirus	30 seconds	RTU	Y	03/03/2020
777-81	Hydrochloric Acid	LYSOL BRAND LIME & RUST TOILET BOWL CLEANER	RECKITT BENCKISER	Poliovirus Type 1; Hepatitis A virus	10 minutes	RTU	Y	03/03/2020
777-82	Quaternary ammonium	LYSOL BRAND DEODORIZING DISINFECTANT CLEANER	RECKITT BENCKISER LLC.	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
777-83	Sodium hypochlorite	LYSOL BRAND BLEACH MOLD AND MILDEW REMOVER	RECKITT BENCKISER	Rhinovirus; Norovirus	30 seconds	RTU	Y	03/03/2020
777-89	Quaternary ammonium	LYSOL BRAND CLEAN & FRESH MULTI-SURFACE CLEANER	RECKITT BENCKISER	Rotavirus WA	3 minutes	DILUTABLE	Y	03/03/2020
777-91	Quaternary ammonium	CITRUS SCENT LYSOL BRAND ANTIBACTERIAL KITCHEN CLEANER II	RECKITT BENCKISER LLC.	Coronavirus	2 minutes	RTU	N	03/03/2020
777-99	Quaternary ammonium; Ethanol	LYSOL® DISINFECTANT SPRAY	RECKITT BENCKISER	Norovirus	10 minutes	RTU	Y	03/03/2020
83614-1	Quaternary ammonium	DETSAN24	BYOTROL, INC.	Feline calivirus	5 minutes	RTU	Y	03/03/2020
8383-12	Hydrogen Peroxide; Peroxyacetic Acid	PERIDOX	CONTEC, INC.	Coronavirus	2 minutes	DILUTABLE	N	03/03/2020
8383-13	Hydrogen Peroxide; Peroxyacetic Acid	PERIDOX RTU™	CONTEC, INC.	Coronavirus	2 minutes	RTU	N	03/03/2020

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8383-14	Hydrogen Peroxide; Peroxyacetic Acid	PERIDOXRTU (BRAND) ONE-STEP GERMICIDAL WIPES	CONTEC, INC.	Coronavirus	30 seconds	WIPE	N	03/03/2020
8383-3	Phenolic	SPORICIDIN (BRAND) DISINFECTANT SOLUTION (SPRAY)	CONTEC, INC.	Coronavirus	5 minutes	RTU	N	03/03/2020
8383-7	Phenolic	SPORICIDIN (BRAND) DISINFECTANT TOWELETTES	CONTEC, INC.	Coronavirus	5 minutes	WIPE	N	03/03/2020
84150-1	Ethanol	PURELL Professional Surface Disinfectant Wipes	GOJO Industries, Inc.	Norovirus	5 minutes	WIPE	Y	03/03/2020
84150-2	Ethanol	MITERSAW	GOJO INDUSTRIES, INC.	Feline calivirus	5 minutes	WIPE	Y	03/03/2020
84368-1	Ethanol	URTHPRO	URTHTECH, LLC	Hepatitis A virus	1 minute	RTU	Y	03/03/2020
85343-1	Quaternary ammonium	TECCARE CONTROL	TALLEY ENVIRONMENTAL CARE LIMITED	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
87508-3	Sodium chlorite	PERFORMACIDE	ODORSTAR, LLC	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
87742-1	Thymol	THYMOX DISINFECTANT SPRAY	LABORATORIE M2	Norovirus	4 minutes	RTU	Y	03/03/2020
88494-1	Quaternary ammonium; Ethanol	WEDGE DISINFECTANT	NORTH AMERICAN INFECTION CONTROL, LTD.	Coronavirus	1 minute	DILUTABLE	N	03/03/2020
88494-3	Quaternary ammonium; Ethanol	PEAK DISINFECTANT	North American Infection Control, Ltd	Poliovirus Type 1; Rhinovirus	1 minute	RTU	Y	03/03/2020
88494-4	Quaternary ammonium; Ethanol	PEAK DISINFECTANT	NORTH AMERICAN INFECTION	Poliovirus Type 1; Rhinovirus	1 minute	WIPE	Y	03/03/2020

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89896-2	Hypochlorous Acid	WIPES CLEANSMART	CONTROL, LTD SIMPLE SCIENCE LIMITED	Coronavirus	10 minutes	RTU	N	03/03/2020
89900-1	Hydrogen Peroxide	NATHAN 2	S.C. JOHNSON PROFESSIONAL	Coronavirus	5 minutes	RTU	N	03/03/2020
90150-2	Hydrogen Peroxide	BINARY IONIZATION TECHNOLOGY (BIT) SOLUTION	TOMI ENVIRONMENTAL SOLUTIONS, INC.	Feline calicivirus	15 minutes	FOG; MIST	Y	03/13/2020
90287-1	Quaternary ammonium	MAQUAT 25.6-PDX	VI-JON, INC.	Coronavirus	10 minutes	DILUTABLE	N	03/03/2020
9402-14	Hydrogen peroxide; ammonium carbonate; ammonium bicarbonate	HITMAN SPRAY	KIMBERLY-CLARK GLOBAL SALES, LLC	Coronavirus	5 minutes	RTU	N	03/03/2020
9402-15	Hydrogen peroxide; ammonium carbonate; ammonium bicarbonate	VICTOR SPRAY	KIMBERLY-CLARK GLOBAL SALES, LLC	Coronavirus	5 minutes	PRESSURIZED LIQUID	N	03/03/2020
9402-17	Hydrogen peroxide; ammonium carbonate; ammonium bicarbonate	HITMAN WIPE	KIMBERLY-CLARK GLOBAL SALES, LLC	Coronavirus	6 minutes	WIPE	N	03/03/2020
9480-10	Quaternary ammonium; Ethanol; Isopropanol	Sani-Prime Germicidal Spray	Professional Disposables International, Inc.	Feline Calicivirus	3 minutes	RTU	Y	03/03/2020
9480-12	Quaternary ammonium; Ethanol; Isopropanol	Sani-Cloth Prime Germicidal Disposable Wipe	Professional Disposables International, Inc.	Feline Calicivirus	3 minutes	WIPE	Y	03/03/2020
9480-14	Hydrogen Peroxide	Sani-HyPerCide Germicidal Spray	Professional Disposables International, Inc.	Norovirus	1 minute	RTU	Y	03/03/2020
9480-4	Quaternary ammonium	SANI-CLOTH GERMICIDAL WIPES	PROFESSIONAL DISPOSABLES INTERNATIONAL, INC.	Coronavirus	2 minutes	WIPE	N	03/03/2020
9480-5	Quaternary ammonium	SANI-CLOTH	PROFESSIONAL	Coronavirus	3 minutes	WIPE	N	03/03/2020

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		GERMICIDAL DISPOSABLE CLOTH	DISPOSABLES INTERNATIONAL, INC.					
9480-8	Sodium hypochlorite	PDI SANI-CLOTH BLEACH WIPES	PROFESSIONAL DISPOSABLES INTERNATIONAL, INC.	Coronavirus	1 minute	WIPE	N	03/03/2020
9480-9	Quaternary ammonium	FREESTAR	PROFESSIONAL DISPOSABLES INTERNATIONAL, INC.	Coronavirus	3 minutes	WIPE	N	03/03/2020