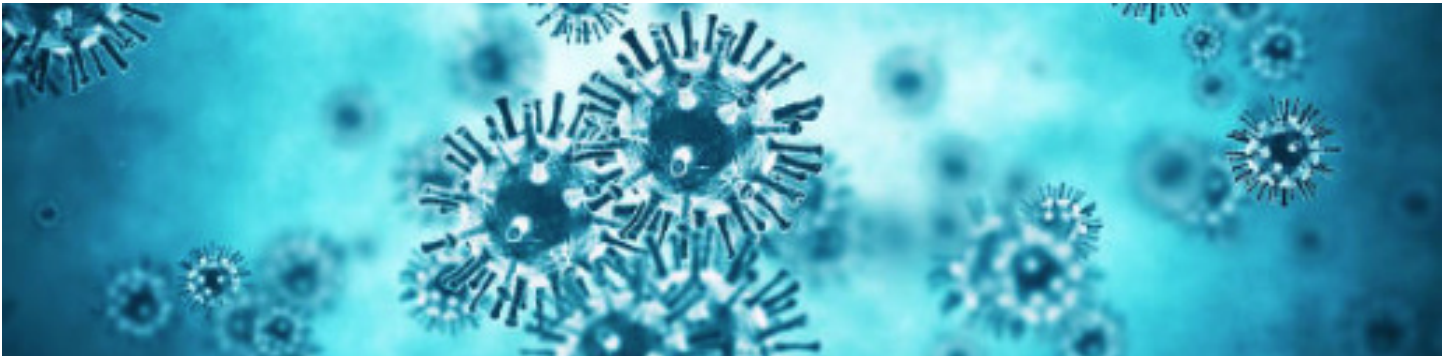


# *Preparedness, Readiness, Response*



As the spread of COVID-19 continues to affect us domestically, our team at Aramsco is working diligently to gather and share this information so our customers have solutions to support their customers.

At this time, there is significant pressure on the supply chain. The Aramsco team and our vendor partners are working diligently to maintain stock levels on applicable products. We remain committed to balanced distribution to ensure product availability to our existing customers whose operations rely on our products.

While we recommend that everyone follow the guidelines of the US Centers for Disease Control and Prevention (CDC), this guide is intended to provide information to support your product selection.

## ***Disinfection***

Because COVID-19 is new and novel, at this time no government-registered disinfectant products have been tested against this strain and no product labels have existing kill claims.

Some good news is that Coronaviruses such as COVID-19 are enveloped viruses, meaning they are one of the easiest viruses to kill with the appropriate disinfectant product. The US Environmental Protection Agency (EPA) and CDC state that if an antimicrobial product can kill a small, non-enveloped virus it should be able to kill any enveloped virus.

The CDC recommends routine cleaning and disinfection procedures (e.g., using cleaners and water to pre-clean surfaces prior to applying an EPA-registered, hospital-grade disinfectant to frequently touched surfaces or objects for appropriate contact times as indicated on the product's label) are appropriate for COVID-19 in healthcare settings.

The following are products from our vendor partners that have indicated they are hospital grade disinfectants with EPA registrations. Please refer to the manufacturer's materials for specific information.

## Disinfection Products



### DECON 30 DISINFECTANT & CLEANER

- Improved penetration into porous surfaces
- Fast & effective decontamination



ITEM	DESCRIPTION
A95483	DECON-30 Disinfectant Cleaner, 1 Gallon



### BOTANICAL DISINFECTANT

One-step cleaner with bactericidal, virucidal, tuberculocidal and fungicidal claims



ITEM	DESCRIPTION
1608-6237	Broad Spectrum Disinfectant, 1 Gallon



### BROAD SPECTRUM DISINFECTANT II

- One-step hospital grade disinfection and cleaning
- No ammonias, chlorines or glutaraldehydes
- No harsh or lingering fumes
- Ready to use – no mixing required



ITEM	DESCRIPTION
1619-6216	Broad Spectrum Disinfectant II, 1 Gallon



### SHOCKWAVE CONCENTRATE CLEANER / DISINFECTANT

Concentrated formula that will disinfect hard, nonporous surfaces, and also sanitizes porous and semi-porous surfaces



ITEM	DESCRIPTION
57563	Concentrated Cleaner/Disinfectant, 1 Gallon



### SHOCKWAVE CONCENTRATE CLEANER / DISINFECTANT

Especially useful as an all-in-one product for treating wood structural members, carpets, and other porous and nonporous surfaces



ITEM	DESCRIPTION
57564	Concentrated Cleaner/Disinfectant, 10 oz Bottle



### IAQ 2500 PREMIXED

Designed for use in a diverse assortment of buildings, to kill and control fungal, bacterial and viral growth



ITEM	DESCRIPTION
57539	Pre-Mixed Cleaner/Disinfectant, 5 Gallon Pail



### LEMON GERMICIDAL CLEANER CONCENTRATE

This multipurpose quaternary disinfectant can be used in residences, commercial institutions, daycare centers, nurseries, or restaurants.



ITEM	DESCRIPTION
A16845	Germicidal Cleaner Concentrate, Lemon, 1 Gallon



### MINT GERMICIDAL CLEANER CONCENTRATE

Concentrated formula that will disinfect hard, nonporous surfaces, and also sanitizes porous and semi-porous surfaces



ITEM	DESCRIPTION
A19968	Germicidal Cleaner Concentrate, Mint, 1 Gallon



### MILGO PLUS ANTIMICROBIAL

Milgo QGC is a professional strength, non-corrosive disinfectant that's highly effective against a broad spectrum of bacteria, viruses, and fungi



ITEM	DESCRIPTION
44151	Milgo Plus Antimicrobial disinfectant, 1 Gallon



### READY TO USE DISINFECTANT SOLUTION

Sporicidin® is used in hospitals, and medical/ dental environments since 1978, and it's able to kill disease- and odor-causing organisms.



ITEM	DESCRIPTION
57643	Ready to use Disinfectant Solution, 1 Gallon

May also be available in five-gallon pails and 55-gallon drums.

## Disinfection cont'd.

When an emerging viral pathogen (such as COVID-19) transitions to community spread, there is a significant increased demand for technology/product combinations practical for disinfection of public areas such as schools, airports, public buildings, etc.

These are larger spaces typically in institutions where interruptions or closure cause negative outcomes from inconvenience, to economic hardship, to relocation. Intensified and systematic surface disinfection during outbreaks is an integral component of maintaining healthy indoor spaces. To be practical, large space methods and products must balance speed and scale, with adequate wetting, dwell time and compliance with EPA-registered labels.

## Application Products

In addition to traditional application tools for disinfectants such as pump-up sprayers, battery-operated backpack sprayers and trigger sprayers, here are some tools for larger scale application:

### Foaming



CHEMICAL MANAGEMENT & APPLICATION EQUIPMENT

#### FOAM-IT JR

- Draws from pre-mix solution
- On-board compressor
- Compact design

ITEM	DESCRIPTION
1607-5614	Air Powered FOAM-IT JR.



CHEMICAL MANAGEMENT & APPLICATION EQUIPMENT

#### 5 LITERS PUMP-UP FOAM UNIT

- Compact unit with manual pump
- Maximum portability for small jobs and spc cleaning

ITEM	DESCRIPTION
1698-7568	Pump-Up Foam Unit 5 L



Foam has the maximum cling and sag resistance. Foam-It sprayers come both powered, manual compression, and in a wide array of configurations and sizes. Equipment cost is modest compared to other methods.

### ATTRIBUTES:

- Less runoff means less collateral mess
- Longer hang time equals better dwell time for kill
- Applicator can see where the foam is being applied, which improves coverage
- Hand compression setups don't need power
- Terrific for hard to reach spots that breed germs like backwash/overflows in sinks
- Useful in everyday remediation activity
- Compatibility and settings already set with major restoration disinfectants

## Airless Sprayers



### TITAN ES3300 PSI PAINT SPRAYER

ITEM	DESCRIPTION
<b>A74937</b>	Titan 805-000 440 Impact 3300psi Skid Frame Paint Sprayer with LX-80 Gun

Airless sprayers may bring to mind painting, but these portable and rugged electric machines do much more.

### ATTRIBUTES:

- Custom tip and settings developed with leading disinfectants for both pandemic response, and for CAT recovery, deliver best wetting with large droplets projected at just enough pressure to maximize dwell time
- Applicator can control spray fan radius reducing product use by as much as 70% Production rates are high, and setups are portable and flexible
- Low cost to purchase, and easy and inexpensive to maintain, and even field-fix

## ULV Foggers



### PUREMIST ULV WET FOGGER WITH FLOW CONTROL

Compact & stable fogger for open-area & sub-surface deodorizing & disinfecting with water-based deodorizers & disinfectants that are EPA approved for fogging.

Atomizes 95% of its output to particles of 20 microns on fine settings and 95% of its output is below 60 microns on heavy settings.

Has an ultra high-speed, 2-stage motor, variable output from 0 to 18 oz. per minute, adjustable flow control valve, flexible 32" directional hose and a corrosion-proof poly supply tank.



ITEM	DESCRIPTION
<b>1686-1864</b>	Light Blue ULV Wet Fogger



ITEM	DESCRIPTION
<b>1611-2942</b>	Red ULV Wet Fogger

These are wet foggers that offer control over droplet size.

### ATTRIBUTES:

- Used to treat airspace with either water- or alcohol-based formulations. Alcohol-based formulations produce smaller sized droplets.
- Can be adjusted to generate particles in the 8-15 micron size range.
- Droplets can stay suspended in air for five or six hours instead of a few minutes with a wet fogger/ mister, allowing for better penetration.
- Chance of over-wetting materials is greatly reduced when compared with wet (tri-jet) foggers.

## Electrostatic



### VICTORY CORDLESS ELECTROSTATIC SPRAYER

- Electrostatic charge penetrates chemical providing a thin even spray pattern on all surfaces
- Weighs only 5.9 lbs. with a full tank
- Cordless convenience allows for effortless movement room to room
- 3-in-1 nozzle lets you set the spray particle size to match your application
- Victory 16.8V Lithium-Ion battery allows you to run between 20-80 tanks on a single charge



ITEM	DESCRIPTION
1605-5764	VP200ESK Cordless Electrostatic Sprayer



### VICTORY LITHIUM ION CORDLESS BACKPACK SPRAYER

- Cover up to 23,000 square feet on a single tank of fluid
- Provides an electrical charge to solutions, allowing them to wrap around conductive surfaces



ITEM	DESCRIPTION
1600-6645	VP300 Lithium ION 18.8V Cordless Sprayer

### CLOROX TOTAL 360 ELECTROSTATIC POWER SPRAYER

- 2 min contact time (EPA listed for COVID-19)
- -Electrostatic technology that wraps 360 degrees around objects you are disinfecting.
- -Portable and easy to use with over 9k sq feet of coverage per gallon



ITEM	DESCRIPTION
1645-8364	Clorox Total 360 Electrostatic Disinfecting Sanitizing Power Sprayer

### ESS ELECTROSTATIC SPRAYER

- 110V portable ES sprayer
- 35 PSI compressor
- 2 Liter capacity



ITEM	DESCRIPTION
1666-2619	SC-EB Electrostatic Sprayer for Antimicrobial Disinfection

Electrostatic has a valued niche role in infection control. After proper training, an applicator can in some cases deliver disinfectant where some other techniques can't.

### ATTRIBUTES:

- Fine mist produced can be useful as a pre-treatment or knockdown application within severely contaminated areas prior to entry of specialized cleanup teams, which improves worker safety
- Fine mist created can attach to airborne particulates, including viruses, as a pulldown, bringing out of the air hazards that might otherwise stay in the breathable air for days.
- Production rates advertised can seem high, but efficiency of laying down a wet layer ultra-thin often works against disinfection because surface will dry out sooner than dwell ("kill") time.
- Equipment investment is expensive, field-fixes can be difficult, and repair frequency is considered the highest of these four methods.

## Wipers

### WIPER - PRO TOWEL COMPLETE



ITEM	DESCRIPTION
1623-8875	Wiper ProTowel Complete 98560

At this time, recommendations are changing concerning cleaning cloths. Reusable microfiber cloths are now being discouraged. Single use cloths are an effective way to prevent cross contamination.

## PERSONAL PROTECTION

The World Health Organization (WHO) and the CDC have published documentation regarding appropriate use of PPE.

[https://apps.who.int/iris/bitstream/handle/10665/331215/WHO-2019-nCov-IPCPPE\\_use-2020.1-eng.pdf](https://apps.who.int/iris/bitstream/handle/10665/331215/WHO-2019-nCov-IPCPPE_use-2020.1-eng.pdf)

<https://www.cdc.gov/coronavirus/2019-ncov/hcp/healthcare-supply-ppe.html#who-needs-ppe>



## GENERAL HYGIENE PRACTICES

Most importantly, all health agencies are stressing the importance of everyday preventive actions, as with any annual flu season, to help prevent the spread of respiratory diseases, including:

- Avoid close contact with people who are sick.
- Avoid touching your eyes, nose, and mouth.
- Stay home when you are sick. Cover your cough or sneeze with a tissue, then throw the tissue in the trash.
- Clean and disinfect frequently-touched objects and surfaces using a regular household cleaning spray or wipe.
- Wash your hands often with soap and water for at least 20 seconds. If soap and water are not readily available, use a hand sanitizer.