



# COVID-19 & ReOpening: Mandate to Disinfect

*Prepared for the PIRC– Available in MasterWorks*

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# PAST PANDEMICS & COVID-19

H5N1 Avian Influenza

SARS (SARS-CoV-1)

H1N1 Influenza

Ebola

EVD-68

Norovirus

H5N8 Avian Influenza

Legionella



**This knowledge will be needed again**

## Epidemic

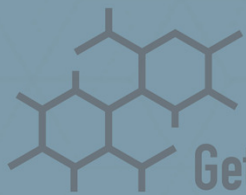
An *epidemic* is defined as “an outbreak of disease that spreads quickly and affects many individuals at the same time.”

## Pandemic

A *pandemic* is a type of *epidemic* (one with greater range and coverage), an outbreak of a disease that occurs over a wide geographic area and affects an exceptionally high proportion of the population.

## What we will discuss:

- The Mandate to Disinfect
- Disinfectants: Fundamentals
- How the 2020 Pandemic & Disinfection fit together
- How disinfectants are used



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**mandate**  
**man•date**

man ,dāt

noun

1. an official order or commission to do something.
2. the authority granted by a constituency to act as its representative

## **unfunded mandate**

concept

1. In the United States, federal mandates are orders that, often without adequate supporting funds, induce responsibility, action, procedure or anything else that is imposed by constitutional, administrative, executive, or judicial action for state and local governments and/or the private sector.



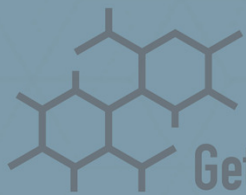


DISINFECTION -  
ESSENTIAL ACROSS  
REQUIREMENTS in federal  
and state guidance



## SARS-CoV-2 Pandemic

COVID-19 is a new disease caused by a new strain of coronavirus which humanity has not encountered before, and against which human beings have little to no existing immunity or resistance

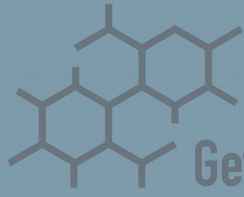


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## COVID-19 - "Flattening the Curve"

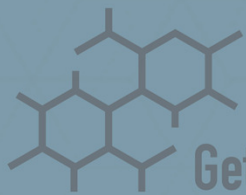
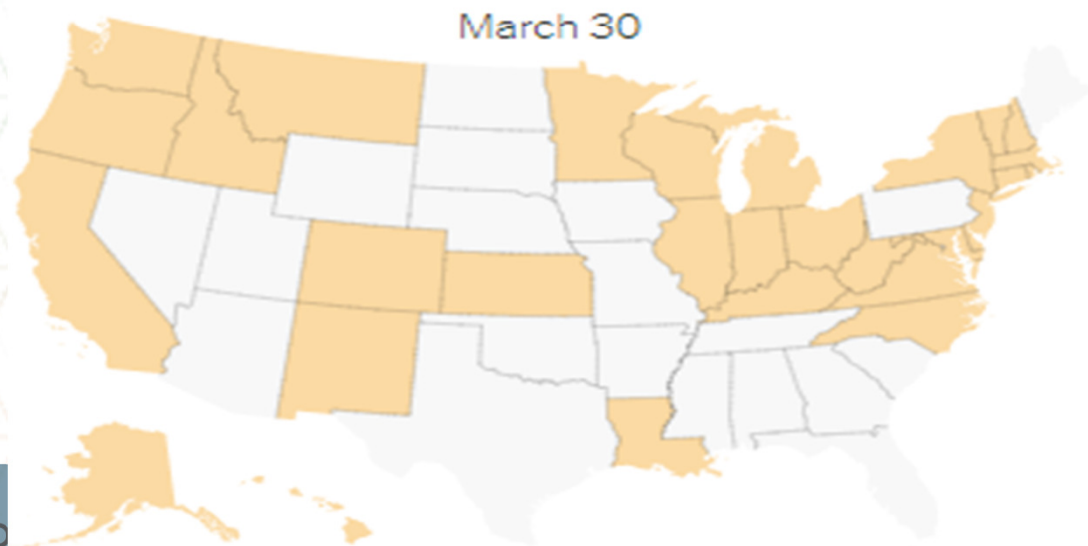
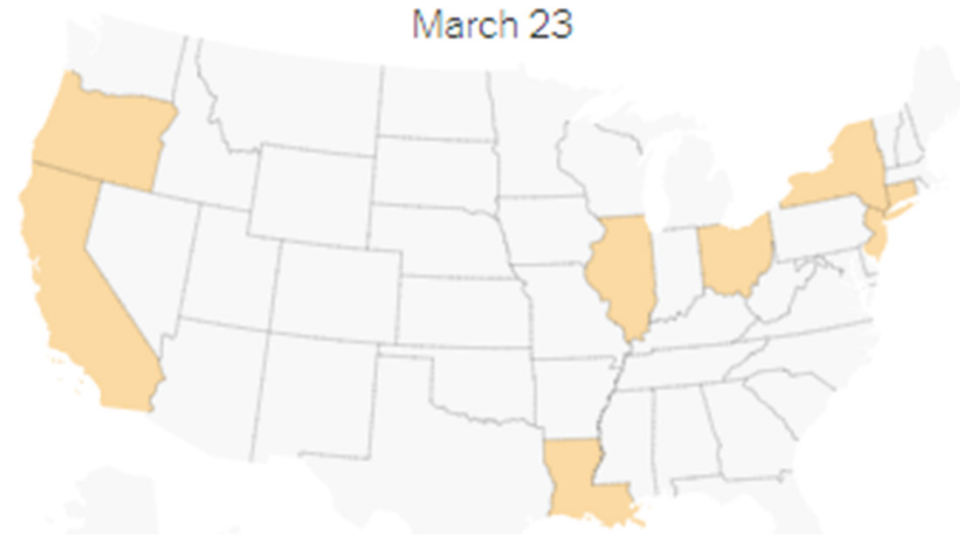
In late winter 2020: lockdown orders designed to "***flatten the curve***" - a method of reducing community spread by limiting interaction. Primary goal is to preserve the healthcare system. The degree of quarantine and social distancing varied greatly, as did enforcement.

# COVID-19 – Economic Impact

The economic consequences of COVID-19 in early 2020 have been drastic.

March: “Stay-at-Home” and shutdown orders quelled economic activity

May: levels of unemployment approximate the Great Depression of the 1930s.



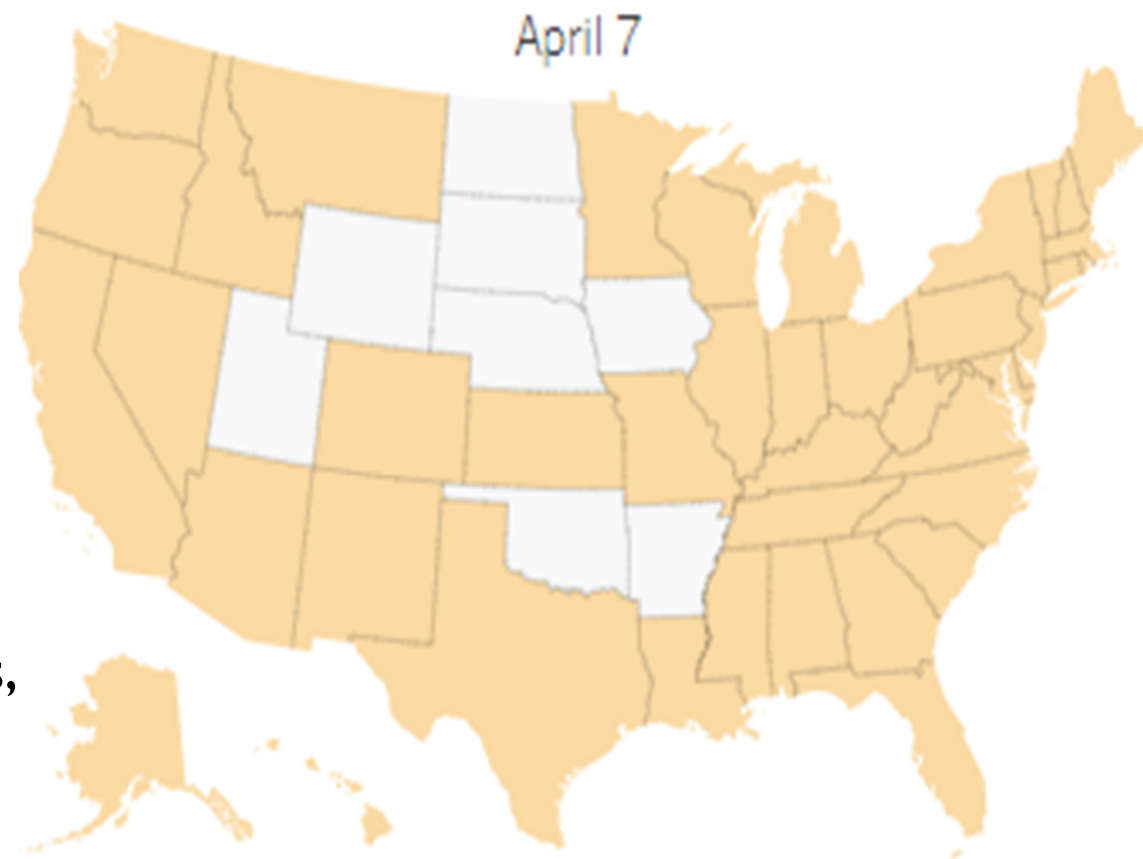
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# COVID-19 – Economic Impact



- THURSDAY, April 30, 2020 (HealthDay News) -- Social distancing guidelines crafted by the federal government to stem the spread of coronavirus expire on Thursday
- "They'll be fading out, because now the governors are doing it," Trump explained.
- More than half of the United States, at least 28 states, will be partially reopened by the end of the week when their stay-at-home orders end, *CNN* reported.

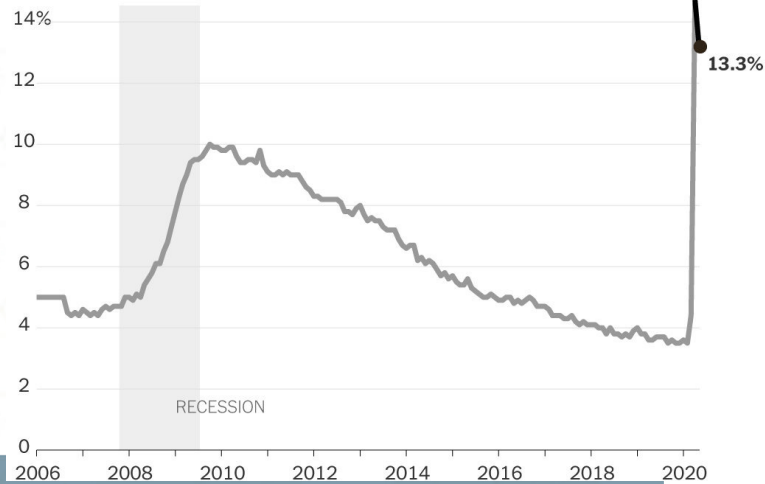


# COVID-19 – Economic Impact

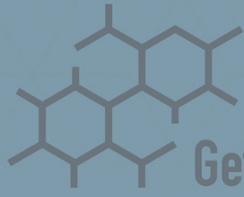
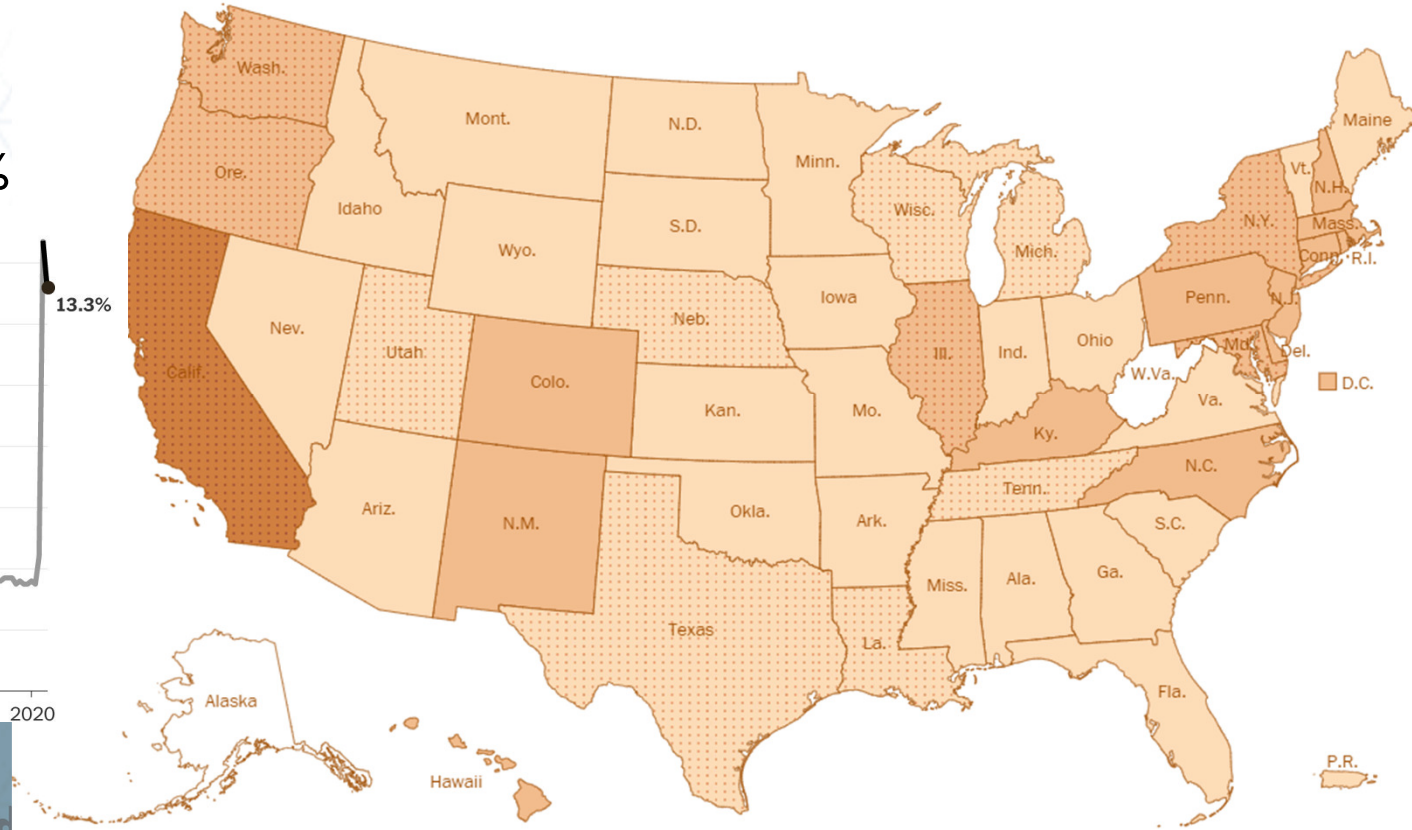
June 1 – all 50 US states in stages of reopening economic activity.

June 23: Unemployment 13.3%

Unemployment rate



State restrictions: Major Moderate Minor None Vary by region



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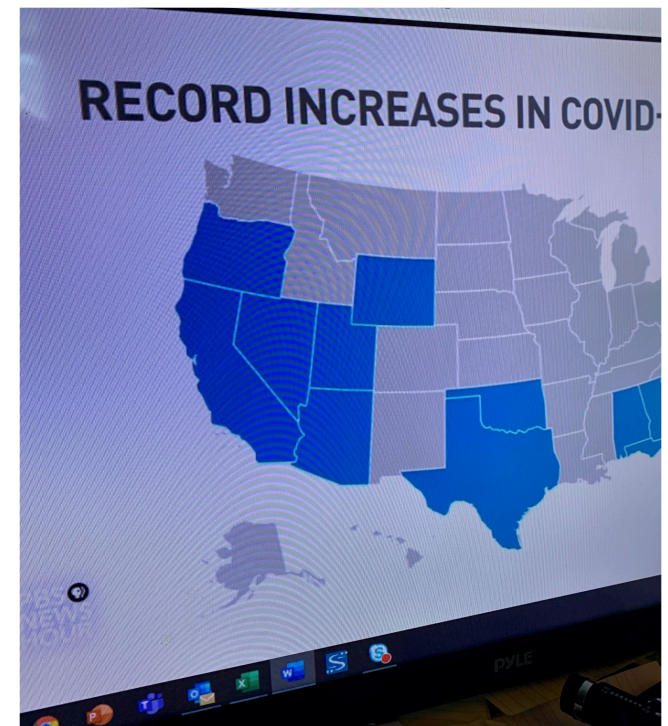
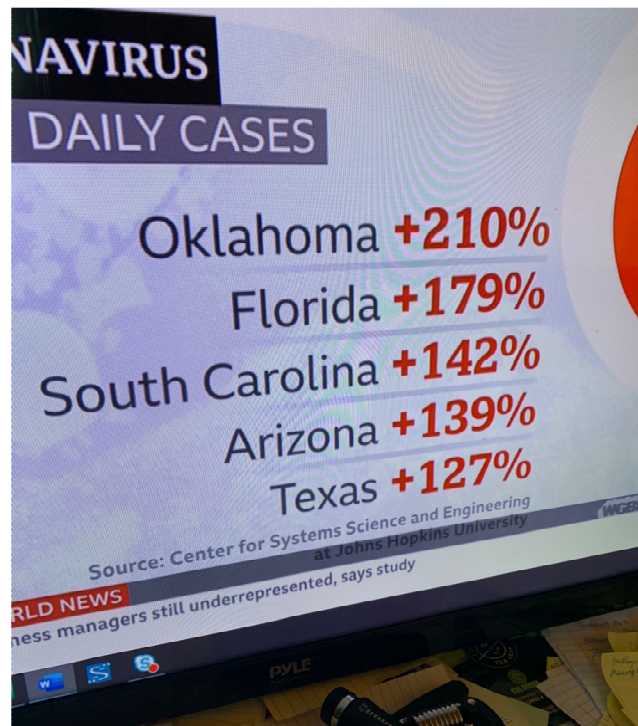
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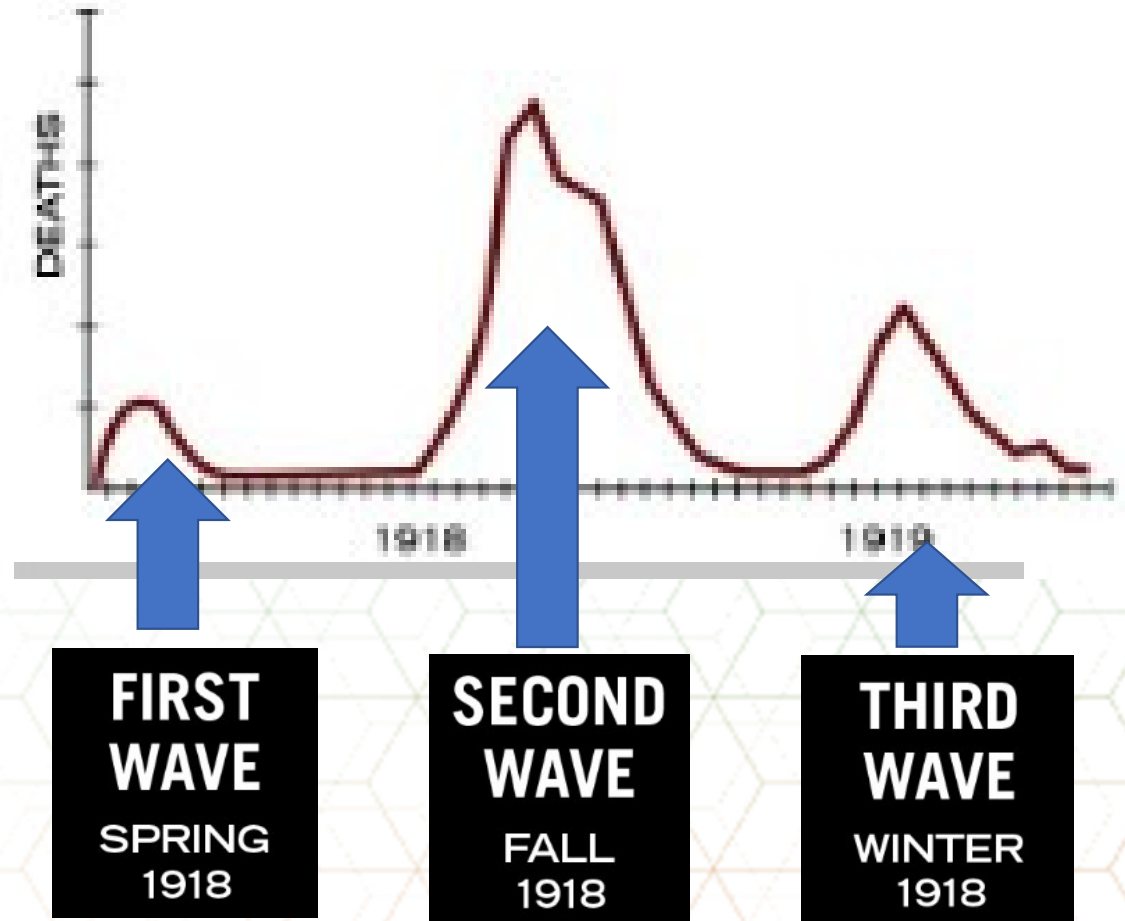


# COVID-19 UNEVEN PROGRESS

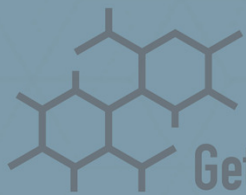
Records Set June 21-22



There were 3 different waves of illness during the pandemic, starting in March 1918 and subsiding by summer of 1919. The pandemic peaked in the U.S. during the second wave, in the fall of 1918. This highly fatal second wave was responsible for most of the U.S. deaths attributed to the pandemic.



<https://www.cdc.gov/flu/pandemic-resources/1918-commemoration/three-waves.htm>

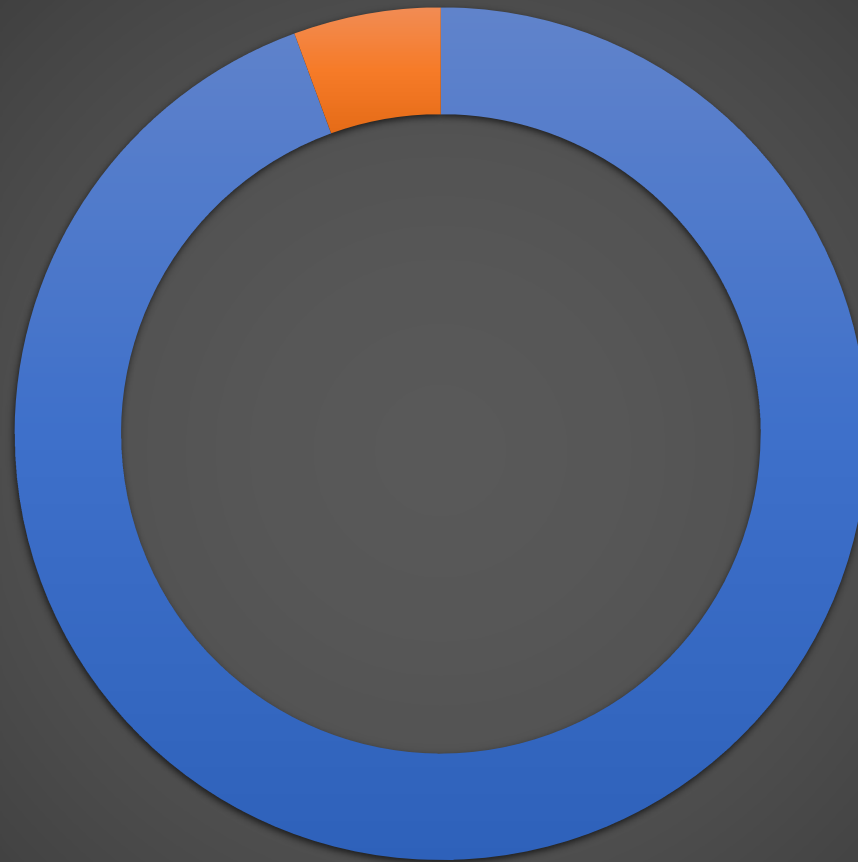


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## Usage in COVID recommendations



■ 95% DISINFECT

■ 5% SANITIZE



WASHINGTON: to

WASHINGTON: to

Child Care: There is no cleaning or disinfecting of heating, ventilation and air conditioning (HVAC) systems by third party contractors. Use fragrance-free cleaner and disinfectant on highchairs, etc., and allow adequate time for proper disinfection"

WASHINGTON: to Child Care: Clean and sanitize toys, equipment, and surfaces in the room. Clean and disinfect high touch surfaces like doorknobs, handles, check-in counters, and restrooms. Use alcohol wipes to clean keyboards and electronics.

adequate time for proper disinfection"

MINNESOTA: to Hotels:

"Proper cleaning and disinfection of

MINNESOTA: to Hotels: "This guidance emphasizes the importance of regularly cleaning and disinfecting common areas where staff and others are providing services or coming into contact with sick people. While, reducing cleaning and disinfecting

OHIO: to all First Responders: "Clean and disinfect duress gear prior to reuse and standard procedures for containment/disposal of containing/laundrying

OHIO: to all "Clean and

OHIO: to Food Establishments: "Food establishments always clean and follow protective cleaning and disinfection procedures, and measures, per

MASSACHUSETTS: to Construction:

"All projects must develop a project-specific Safety Plan for COVID-19 that addresses All

OHIO: to Food Establishments: "High-touch surfaces should be disinfected frequently using EPA-registered disinfectants. Food containers and utensils should always be cleaned and sanitized. Offer sanitizers and wipes to customers to clean grocery cart/basket handles, or utilize store personnel to conduct cleaning/sanitizing. "

TEXAS: to Retailers:

"If practical, **monitor** what items customers touch to **clean or disinfect**"; and theaters "**Disinfect** seats and frequently touched areas between screenings."

disinfectants in Florida, commercial users should ensure the product is registered for use in Florida [which] does not require licensure under for companies or individuals using disinfectants"

**HEALTHCARE:** 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 product's label) are appropriate for SARS-CoV-2 in healthcare settings, including patient-care areas in which aerosol-generating procedures are performed.

viral respiratory illnesses in community settings.

**COMMUNITY FACILITIES:** Facilities will need to

RE: Once the  
been  
or  
... the room  
ergo  
e cleaning and  
infection  
returned to

factors such as  
f the room and  
ation system  
cluding

**COMMUNITY FACILITIES:**  
**cleaning staff should  
clean and disinfect all**

**such as offices,  
rooms, common  
shared electronic  
equipment (like tablets,  
screens,  
boards, remote  
controls, and ATM  
lines) used by the ill  
persons focusing**

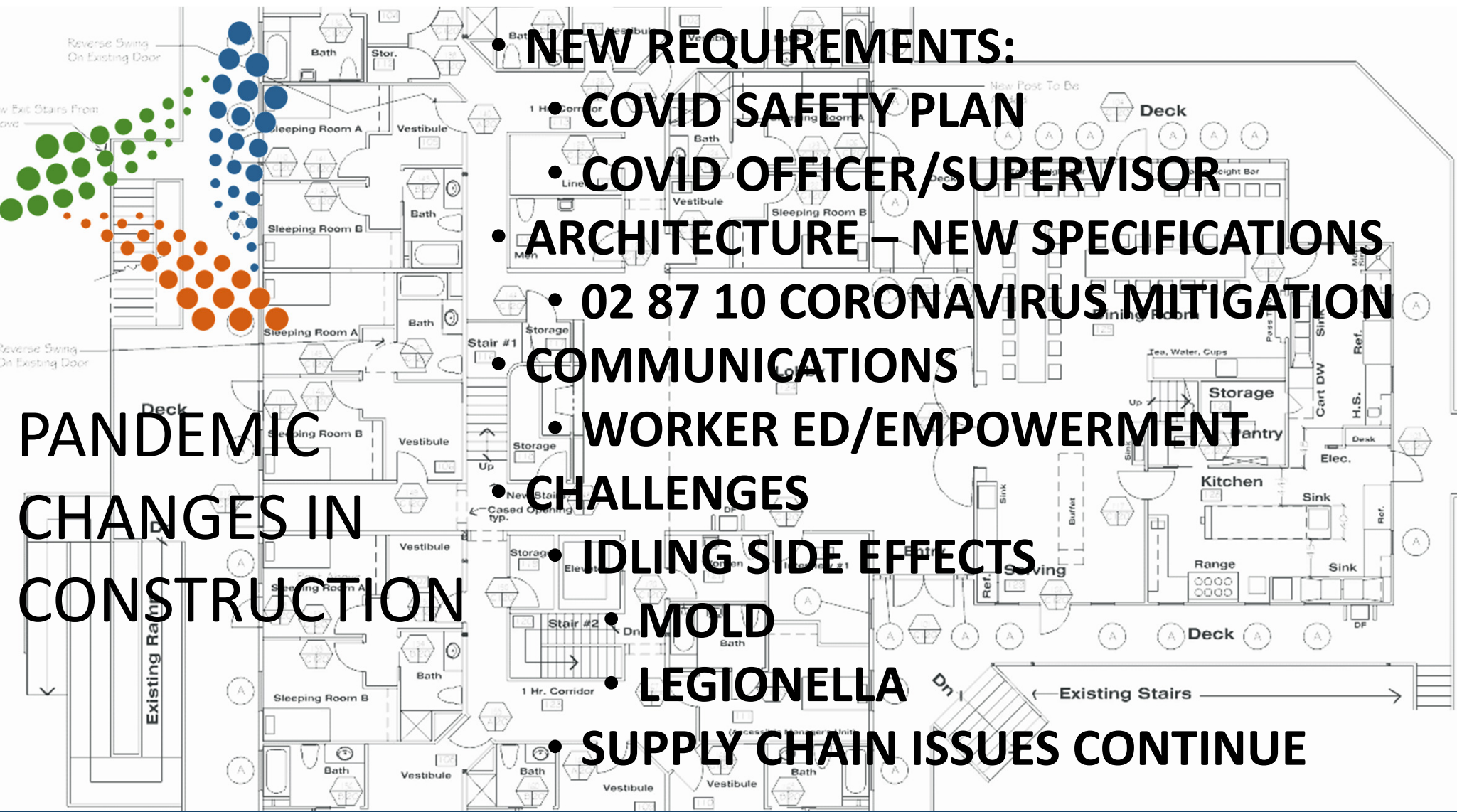
**UNIVERSITY:** "Ensure  
adequate supplies to  
support cleaning and  
disinfection practices.."

**HOUSEHOLDS**  
suspected/confirmed  
have COVID-19: clean  
of visibly dirty surface  
followed by disinfection  
is a best practice  
measur  
of COVI  
viral res  
in hous  
commu

**HOUSEHOLD**  
suspected/co  
have COVID-  
**and disinfect  
surfaces daily**  
**household common  
areas (e.g. tables, hard-  
backed chairs,  
doorknobs, light  
switches, phones,  
tablets, touch screens,  
remote controls,  
keyboards, handles,  
desks, toilets, sinks)**

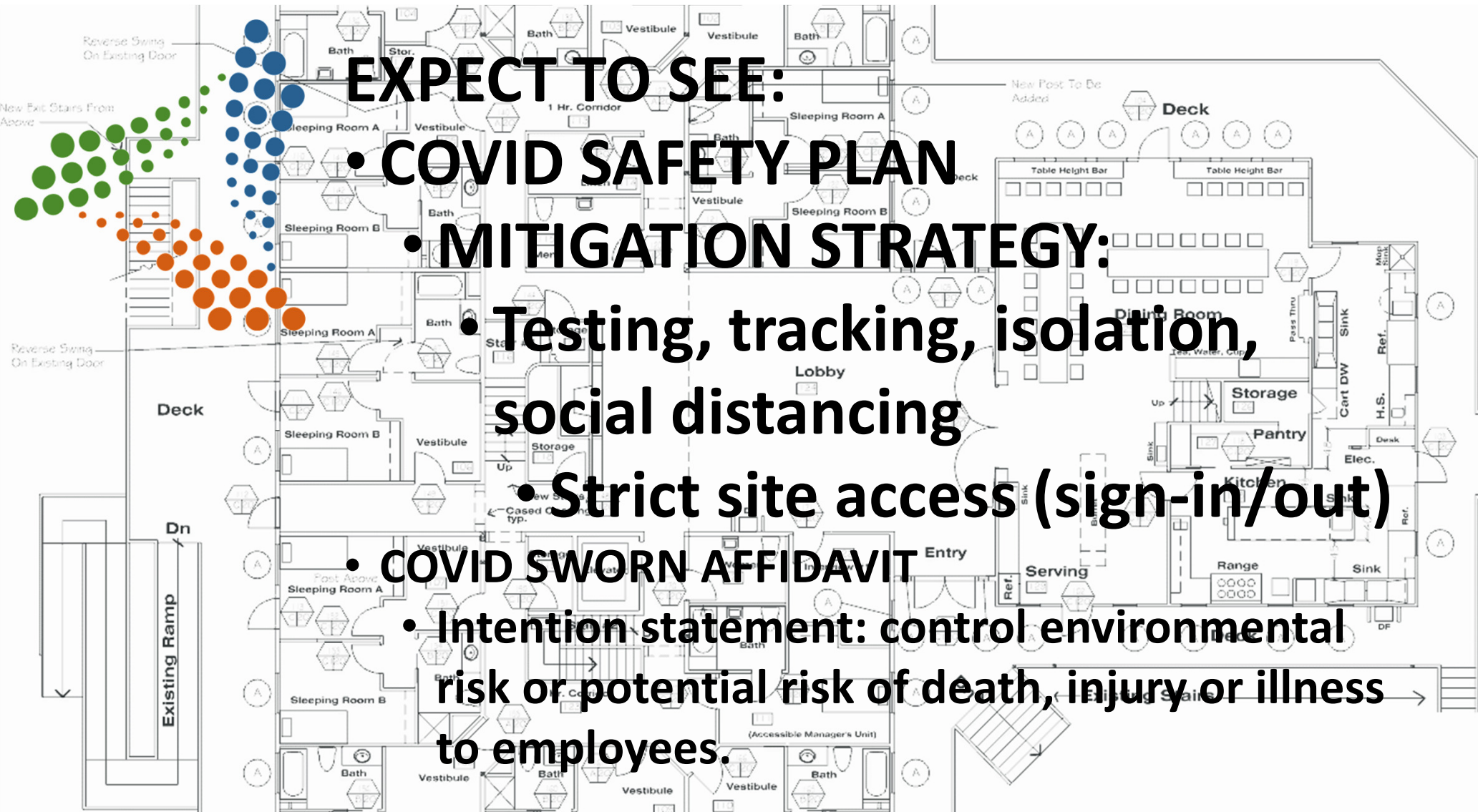
**UNIVERSITY: Intensify  
cleaning and disinfection  
efforts.** Routinely clean  
and disinfect surfaces  
and objects that are  
frequently touched. This  
may include cleaning  
objects/surfaces not  
ordinarily cleaned daily  
(e.g., doorknobs, light  
switches, classroom sink  
handles, countertops).

**WORSHIP:** "Provide  
disposable wipes to staff  
and faculty so that  
commonly used surfaces  
(e.g., keyboards, desks,  
remote controls) can be  
wiped down before use."



- **NEW REQUIREMENTS:**
- **COVID SAFETY PLAN**
- **COVID OFFICER/SUPERVISOR**
- **ARCHITECTURE – NEW SPECIFICATIONS**
- **02 87 10 CORONAVIRUS MITIGATION**
- **COMMUNICATIONS**
- **WORKER ED/EMPOWERMENT**
- **CHALLENGES**
- **IDLING SIDE EFFECTS**
- **MOLD**
- **LEGIONELLA**
- **SUPPLY CHAIN ISSUES CONTINUE**

**PANDEMIC  
CHANGES IN  
CONSTRUCTION**





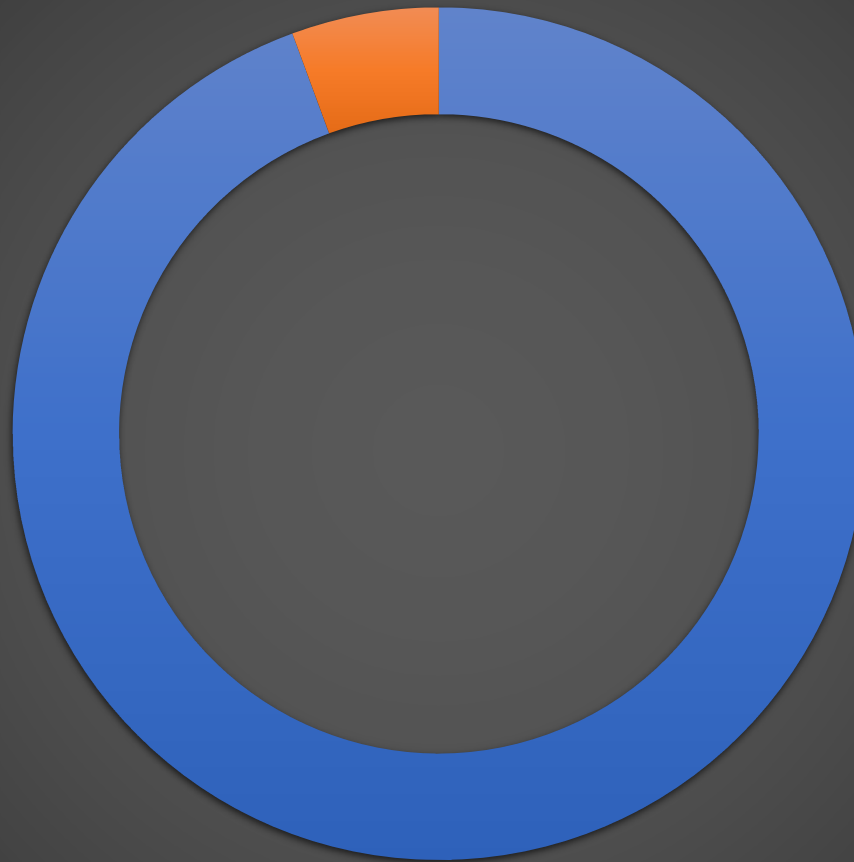
## Usage in COVID recommendations

FREE WEBINAR! ↘

**BUILDING  
RESISTANCE TO  
COVID-19  
INFECTION**

**FRIDAY, JUNE 26, 2020  
1:00PM EST**

**CLICK TO REGISTER**



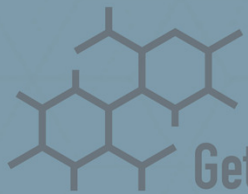
**TENTATIVELY:  
MANDATE TO  
DISINFECT - A  
NATIONAL LEVEL  
DEEP DIVE INTO  
COVID  
RECOMMENDATIONS**

**JULY 10**

■ 95% DISINFECT    ■ 5% SANITIZE    ■    ■



# Disinfectants



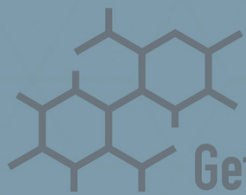
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# The Lens of Chemistry

- The choices of Chemistry, Delivery Method, and Owner Expectations related to pandemic surface hygiene impact:
  - How we clean
  - How we disinfect
  - How we prioritize our efforts



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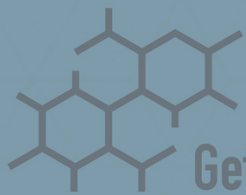
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# Disinfectants

## Fundamentals



- Disinfectants are treatments for touchable surfaces in the indoor or outdoor built environment.
- Disinfectants kill targeted microorganisms.
- Disinfectants are infection control/public health tools integral to the control of disease.

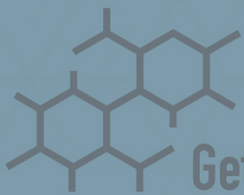
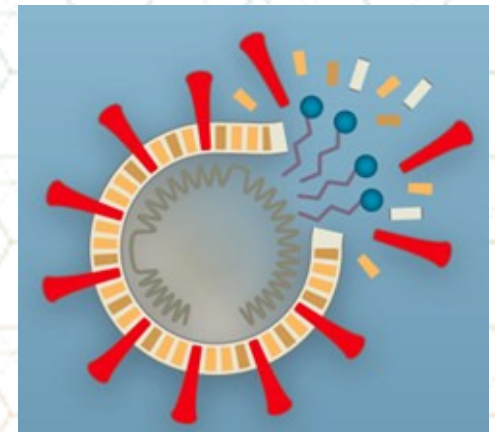


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# Disinfectants Fundamentals

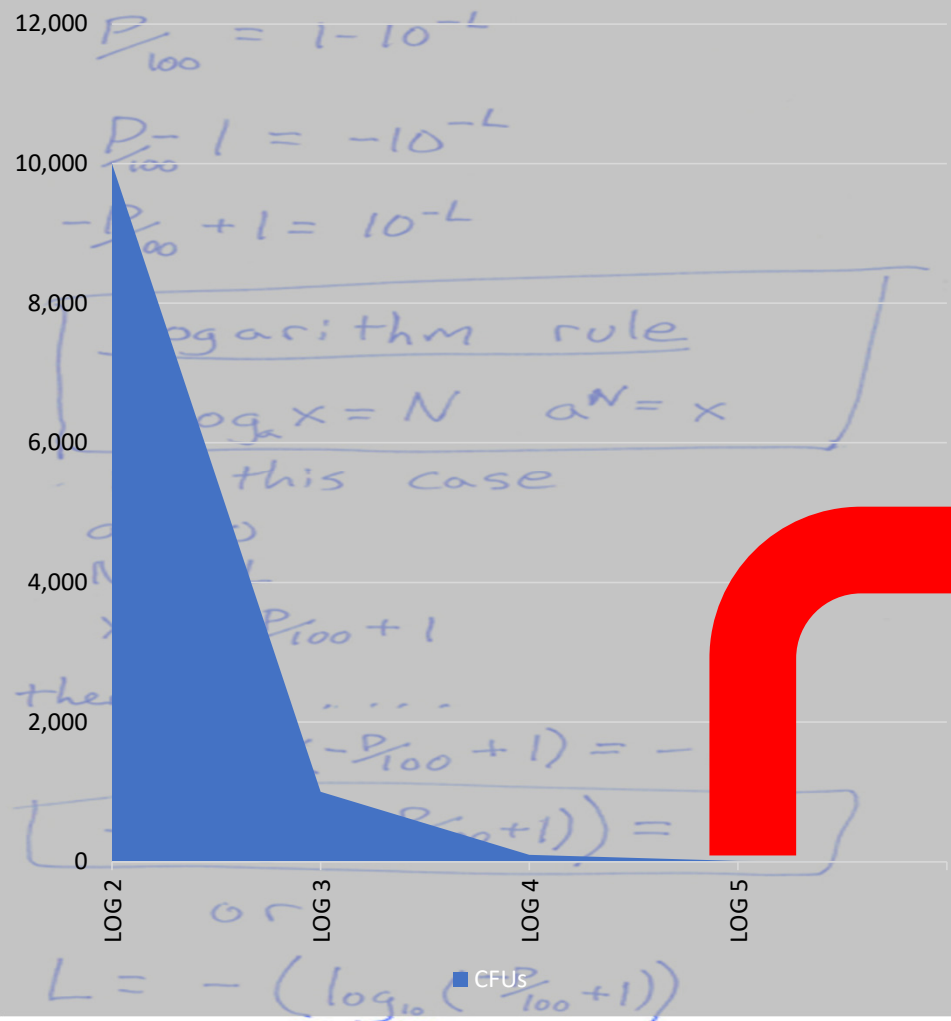
- Disinfectants work by destroying the cell wall of microbes or interfering with their metabolism, or both.
- A liquid, water-like form is best for a disinfectant to deliver the active ingredient to the target microbe, and disrupt the cell membrane and processes.



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## LOG REDUCTION (KILL) MICROBIAL CFUs



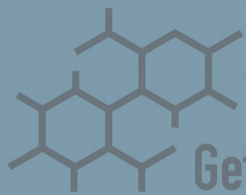
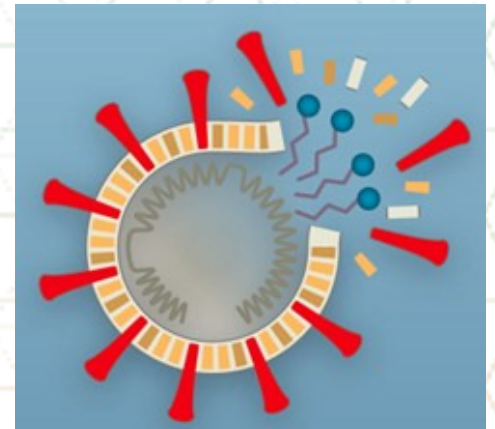
### Example:

- Sanitizing is valued...but **LEAVES 1000**
- Disinfect**, the term explicitly called out in COVID guidance, is equal to a **99.999%** reduction. Or, 1M viable microbes are now no more than a **statistically negligible 10**.

# Disinfectants Fundamentals

## • Cleaning & Contact Time

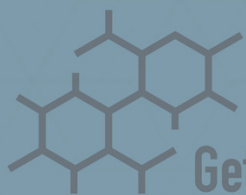
- Kill requires contact between the active ingredient and target microbe.
- Interference (dirt) is first removed (cleaning), then sufficient contact time for 99.999% effective.
- For COVID activity, your contact time for disinfection is 10 minutes.



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- No products have been tested or EPA-registered specifically against SARS-CoV-2 (COVID-19).
- This pathogen is not available for testing and standard methods for laboratory testing do not exist.



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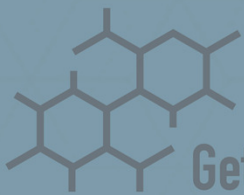
# How does EPA know which products work on COVID-19 (SARS-CoV-2)?

While surface disinfectant products on USEPA or Health Canada Lists have not been tested specifically against SARS-CoV-2, the cause of COVID-19, EPA & Health Canada expects them to kill the virus because they:

- Demonstrate efficacy (e.g. effectiveness) against a harder-to-kill virus; or
- Demonstrate efficacy against another type of human coronavirus like SARS-CoV-2.



SWAG  
**Scientific**  
Wild  
Ass  
Guess



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# EPA LIST N & ShockWave RTU

- EPA REG. NO. 61178-2-73884
  - The 73884 is ICP-Fiberlock
- MASTER REGISTRANT: 61178-2
  - Their product name: Public Places
- ICP provides this chemistry to restoration and CAT recovery marketplace

List N was last updated on April 30, 2020.

**i** EPA Registration Number

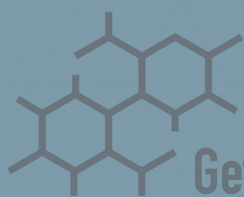
**Other Search Options** **Clear**

Show  entries **Export to PDF** **Export to CSV**



## List N: Products with Emerging Viral Pathogens AND Human Coronavirus claims for use against SARS-CoV-2

EPA Registration Number	Active Ingredient(s)	Product Name	Follow the disinfection directions and preparation for the following virus	Contact Time (in minutes)
61178-2	Quaternary ammonium	Public Places	Equine calicivirus	10



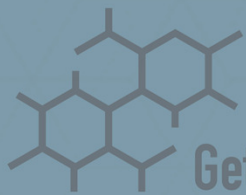
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# EPA LIST N - DEFERENCE

- All states and agency/institutions recommend starting with List N to select products
- CDC, FDA, OSHA
  - BAD EXAMPLE: CDC and the brief recommendation of the CBC list – since corrected by CDC



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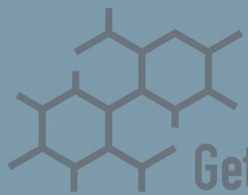
# Time and Time Again- Contact



- EPA List N specifies contact time predicted necessary to kill the SARS-CoV-2 strain
- Often longer than sanitize time on published labels
- 10 minutes is benchmark because
  - We don't know for certain about new org
  - Cleanliness = absence of associated bacteria and fungi
    - That takes 10 minutes



# Why Surfaces?



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## COVID-19: Viability on Surfaces

The most common transmission route is via direct exposure to sneezing, coughing and speaking from infected individuals

Infected persons can also contaminate a range of surfaces of the built environment.

March 2020 NIH study – COVID-19 may survive for days.

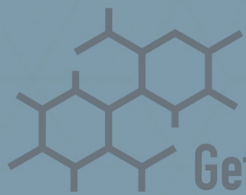
Reinforced by articles in the Journal of Hospital Infection and the Lancet.

<https://www.nih.gov/news-events/news-releases/new-coronavirus-stable-hours-surfaces>

## March 17, 2020 in the *New England Journal of Medicine*



	SARS-CoV-1 [SARS 2002-2004]	SARS-CoV-2 [2019-2020]	Influenza A & B [Annual]
Copper	8 hours	4 hours	6 hours
Porous (Cardboard, Cloth, Tissues, Paper)	8 hours	24 hours	8-12 hours <small>Money in 1 study 8-17 days</small>
Hard, Non-porous (Plastic)	3 days (72 hours)	3 days (72 hours)	1-2 days (24-48 hours)
Hard, Non-porous (Stainless Steel)	2 days (48 hours)	3 days (72 hours)	1-2 days (24-48 hours)

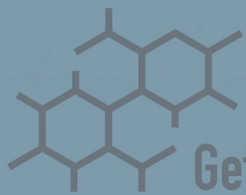
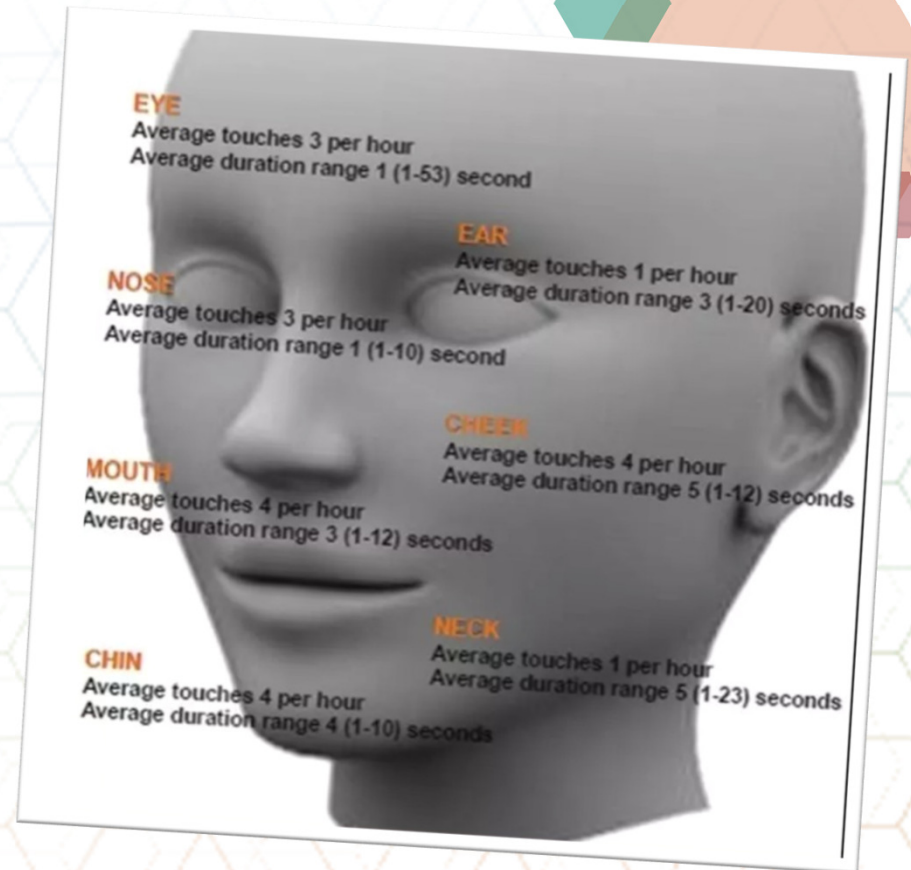


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# Journal of Hospital Infection

- Humans "touch their face with their own hands on average 23 times per h, with contact mostly to"
  - the skin (56%)
  - mouth (36%)
  - nose (31%)
  - eyes (31%)



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***Analysis: CDC's Morbidity and Mortality Weekly Report (MMWR) found "SARS-CoV-2 RNA was identified on a variety of surfaces in cabins of both symptomatic and asymptomatic infected passengers up to 17 days after cabins were vacated on the Diamond Princess but before disinfection procedures had been conducted."***

[https://www.cdc.gov/mmwr/volumes/69/wr/mm6912e3.htm?s\\_cid=mm6912e3\\_w](https://www.cdc.gov/mmwr/volumes/69/wr/mm6912e3.htm?s_cid=mm6912e3_w)

Relative Contagion	SARS-CoV-1 [SARS 2002-2004]	SARS-CoV-2 [COVID-19 2020]	Ebola [2018]
Infectious Viability (Plastic)	<b>3 days</b>	<b>3-9-17+ days</b>	<b>Up to 2 weeks</b>
Infectious Viability (Stainless Steel)	<b>2 days</b>	<b>3-9-17+ days</b>	<b>Up to 2 weeks</b>
R0 Value Contagiousness	<b>2.9</b>	<b>1.5-3.5</b>	<b>1.71-2.02</b>
Critical Transmission Factors	Symptomatic only; Closer direct contact for SARS & MERS vs COVID-19. Frequent HAIs	Non-, pre-, and asymptomatic+symptomatic transmission; small/large respiratory droplets	Symptomatic & Visible symptoms; Bodily fluids (Blood, sweat, urine); direct contact
% Mortality [CFR Case Fatality Rate]	<b>9.6-15%</b> (MERS 34%) [‘02-‘03: 26 countries, more than 8000 infections, approximately 800 dead]	<b>1.4%</b> [177 countries, more than 1.9M infections, approximately 127K dead]	<b>50%</b> [2 nations; Current 2018 outbreak 3432 cases and 2249 deaths. US during 2014-16 outbreak: 11 cases; 2 deaths]



## Asymptomatic Shed

- WHO Maria Van Kerkhove: June 8 - asymptomatic transmission “very rare.”
- Van Kerkhove June 10: clarified referring only to patients who never show any symptoms at all
- WHO: 16% truly asymptomatic patients can infect others.
- (June 3) [\*Annals of Internal Medicine\*](#) - may be as high as 45 percent, and individuals can transmit the to others for an extended period.”

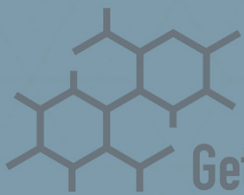
# Time and Time Again-Frequency

- Recommendations are all over the place
  - RE: clean for health/preventative; Not COVID cleanup
- Majority: routine, regular, intensify, increase = unhelpful?
- Majority: Daily (more like nightly)
- Customer/Public Interaction = Frequency due Transaction
  - Every use, shift, customer
  - Restaurant, Worship, Gym
- Starvation Strategy: 24 hrs, 72 hrs, wait as long as you can
- Arbitrary: 2 hours, 12 hours, 24 hours, Follow CDC weekly



# Empowerment

- OSHA-right-to-know, General Duty Clause
  - Only sections of OSHA COVID guidance as enforceable
- Guests, Staff...all of the above
  - Training with disinfectants
  - Provide supplies (notably wipes – made or make your own)
- CDC: Regular cleaning staff can clean and disinfect community spaces.
- CDC: Ensure they are trained on appropriate use of cleaning and disinfection chemicals.

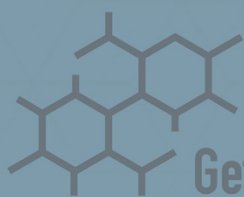


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# Guidelines, Specifications & Right Expectations



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# OUR TECHNOLOGY

Home / Commercial / Our Technology

## MICROSHIELD 360 ANTIMICROBIAL IS EPA REGISTERED AND FDA APPROVED FOR DIRECT FOOD CONTACT SURFACES

MicroShield 360 Antimicrobial Imparts Durable Biostatic Activity to the Surface of a Wide Variety of Substrates

- ✓ Clear, Colorless and Odorless
- ✓ 100% Preventative, Not Reactionary
- ✓ Non-Leaching Technology
- ✓ Mechanical Kill, Not Cidal
- ✓ Doesn't Allow for Resistances
- ✓ Creates a Permanent Coating
- ✓ Works Every Second of Every Day
- ✓ Continue Normal Cleaning Protocols

STEP  
1

### Electrostatic Application

All solutions are applied electrostatically which reduces waste, improves coverage and eliminates human error.

STEP  
2

### MicroShield 360 Renew - Immediate Kill

A specially formulated disinfectant is applied to all surfaces and allowed to air dry. This preps the surface for MicroShield 360 Antimicrobial.

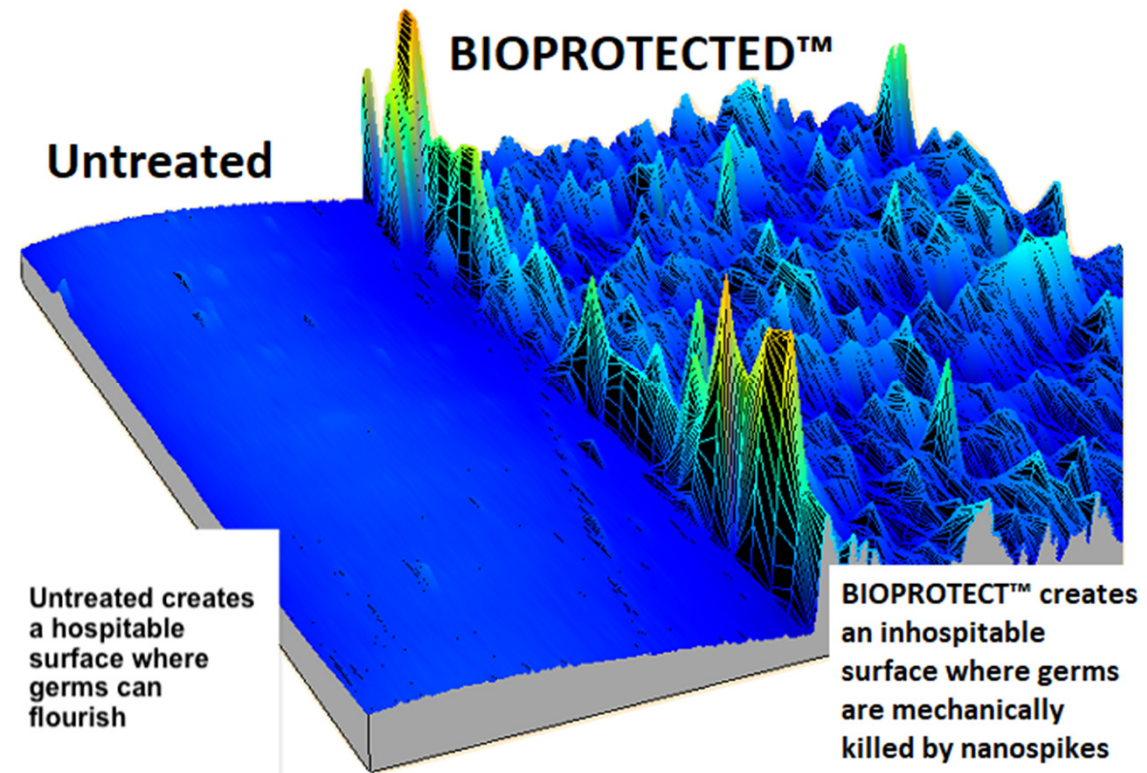
STEP  
3

### MicroShield 360 Antimicrobial - Preventative Protection

A proprietary coating formula that imparts a final biostatic finish to treated surfaces thereby not allowing bacteria to live on the surface moving forward.

### HIGHLIGHTS OF OUR TECHNOLOGY

- ✓ Clear, Colorless and Odorless
- ✓ 100% Preventative, Not Reactionary
- ✓ Non-Leaching Technology
- ✓ Mechanical Kill, Not Cidal
- ✓ Doesn't Allow for Resistances
- ✓ Creates a Permanent Coating
- ✓ Works Every Second of Every Day
- ✓ Continue Normal Cleaning Protocols



Once attracted, the molecular spikes pierce the cell and rupture its cell membrane, causing the odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae to die.






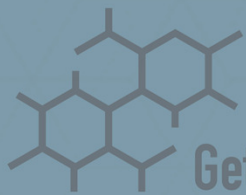


# Snapshot in Time: The 2<sup>nd</sup> Most Common Question

- Regular cleaning and disinfecting of public facilities is the key to infection control.
- Increased frequency is recommended during times of high illness among the occupants.
- Special attention should be paid to common “hot spot” or high touch points like door handles, faucets, water fountain knobs, or toys.



**You cannot promise  
lifespan beyond disinfection.**

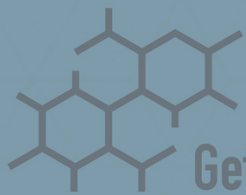


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# Simple Guidelines for One Requirement

- There are no established guidelines or regulations for epidemic or pandemic. But there will be...
- For now, no licensing is required, and there is a chaotic mix of recommendations.
- The one requirement for the RESPONSIBLE/ACCOUNTABLE:
  - Clean and disinfect to extent necessary to mitigate against exposure of guests, customers, visitors, members and staff to the virus on touchable surfaces.



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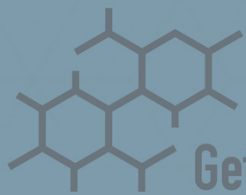
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# Simple Guidelines for One Requirement

An over simplified guideline:

- **3 STEPS:**

- **1.** If surfaces are visibly dirty, clean.
- **2.** Apply disinfectant.
  - Ensure wet contact time, and adjust delivery method for size of space
- **3.** Address potentially contaminated touch points such as doorknobs, toys, keyboards, etc. when clearing an area



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# Simple Guidelines for One Requirement

- Follow CDC: Clean from furthest point in a space towards nearest to exit and from high-to-low (all helps against cross-contamination and duplicate effort)
- WATCH THIS SPACE for ICP's new mitigation master format specification: 02 87 10 coronavirus mitigation

For assistance in the use of products in this section, contact ICP Group by calling (978) 623-9980, by email at [info@icpgroup.com](mailto:info@icpgroup.com), or visit their website at [www.icpgroup.com](http://www.icpgroup.com).

## SECTION 02 87 10 - CORONAVIRUS DISINFECTION

### PART 1 GENERAL

#### 1.1 ABBREVIATIONS

- A. Personal Protective Equipment: PPE.

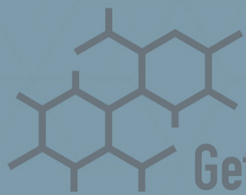
#### 1.2 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate with local and State health departments to ensure that current cleaning and disinfecting protocols and guidelines are followed, including identification of new potential cases of COVID-19.

#### 1.3 SUBMITTALS

- A. Informational Submittals:
  1. Product Data: Manufacturer's descriptive data for materials proposed for use.

#### 1.4 QUALITY ASSURANCE



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FREE WEBINAR! ↘

**BUILDING  
RESISTANCE TO  
COVID-19  
INFECTION**

**FRIDAY, JUNE 26, 2020  
1:00PM EST**

**CLICK TO REGISTER**



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