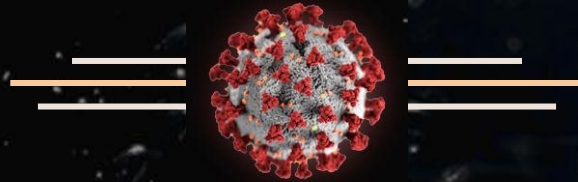
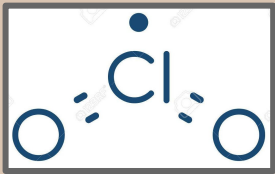


# Chlorine Dioxide's

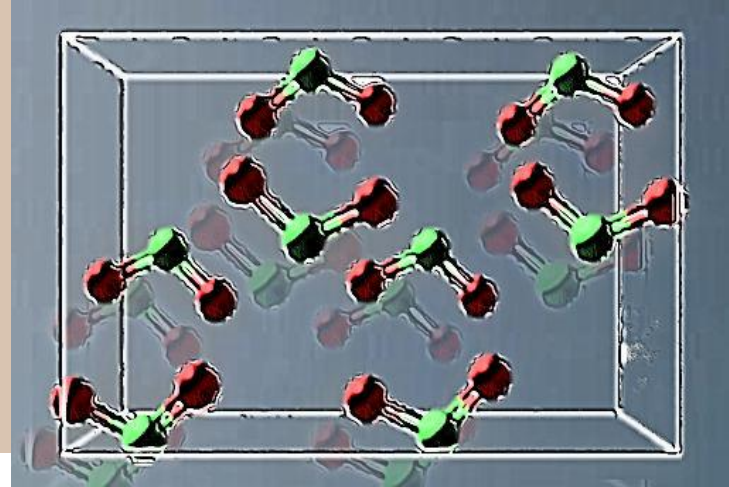
value for the  
Coronavirus crisis



Empowering the Public  
& Business



# What is Chlorine Dioxide?



Disinfectant chemical compound with unique benefits  
for personal environments, business settings  
& healthcare facilities

***US EPA has listed several Chlorine Dioxide and  
Sodium Chlorite products for effective use against COVID-19***

# Some common uses

- Disinfection of hospitals, airports, schools, public buildings, buses, animal facilities
- Disinfection of municipal drinking water
- Sanitizing fruits, vegetables & meat
- Paper and flour bleaching

# Features & Benefits

- Few micro-organisms have resistance
- Effective against viruses, bacteria & allergens
- Kills germs faster, so less contact time needed
- Can use on many porous surfaces
- Less harsh & no rinsing needed afterward
- Penetrates and destroys biofilms that protect pathogens

# More Features & Benefits

- Strong effectiveness--much less chemical required for disinfectant mixes
- Disinfection of air can be done at safe inhalation levels
- Mild and less-drying on skin
- Kills bacteria, mold & fungus on perishable foods
- No cancer-causing reactants
- More environmentally friendly

# Added benefits if use is airborne

- Air and surfaces are BOTH disinfected
- Disinfects more surface areas, more thoroughly, more quickly
- Intense disinfection can be done in 4 - 24 hours
- Periodic or continuous low-level disinfection in occupied areas brings substantial benefit

Coronavirus is  
transmissible in air

*Washington choir tragedy:  
45 of 60 members infected  
without touching & 2 died*



**Would some  
new ways  
to use**



**Chlorine Dioxide**

**right now be worth  
pushing the envelope?**



In fighting the 2001 anthrax attacks,  
Chlorine Dioxide applied in new ways  
defeated major national threats.





Exploring new methods  
took care & collaboration

but was  
remarkably effective.

The New York Times

A NATION CHALLENGED: THE CLEANUP

# ***A NATION CHALLENGED: THE CLEANUP; Fumigation Is Finished***

**F**ederal officials backed away yesterday from a plan to fumigate a Senate office building with chlorine dioxide gas to kill anthrax spores after outside experts raised questions about the decontamination technique.

What solutions can  
**Chlorine Dioxide**  
contribute to for the  
COVID-19 pandemic?

# NEEDED!

## Less hospital crowding



## QUARANTINE CONTAGIOUS DISEASE

NO ONE SHALL ENTER OR LEAVE THIS HOUSE WITHOUT WRITTEN PERMISSION OF THE LOCAL HEALTH AUTHORITY. (Art. 4477 - V.A.C.S.)

NO PERSON EXCEPT AN AUTHORIZED EMPLOYEE OF THE HEALTH DISTRICT SHALL ALTER, DESTROY OR REMOVE THIS CARD. (Art. 4477 - V.A.C.S.)

ANYONE VIOLATING THIS REGULATION WILL BE FINED NOT LESS THAN \$10.00 NOR MORE THAN \$1,000.00 FOR EACH VIOLATION. (ART. 770 Texas-Penal Code)

BY ORDER OF

DIRECTOR OF HEALTH

SAN ANTONIO METROPOLITAN HEALTH DISTRICT

## Solution

Make homes safer for quarantine & isolation, especially with multiple residents

# NEEDED!

Reduce transmission  
before symptoms are showing

## Solution

Increase convenience  
to make disinfection  
easily routine & portable



*Photo credit: Dawson Fuss, "Damn Quarantine", Youtube*

# NEEDED!

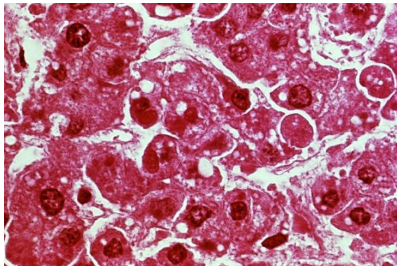
Protection for caregivers

## Solution

**Mist with spray bottle** or use "shocker" products  
to clean air & disinfect overlooked surfaces

# NEEDED!

Ease severity  
of cases



## Solution

Reduce load of coronavirus, bacteria  
and allergens to fight in sickness rooms



# NEEDED!

## Reduce spread into homes



### Solution

Provide simple, non-damaging,  
multi-surface disinfectant



### Solution

Minimize trips for groceries  
by safely rinsing foods to kill  
bacteria, mold & fungus



# NEEDED!

Less dependence on  
cleaning supplies that  
are scarce, disposable,  
or require laundering

## Solution

Much less chemical needed in mixes.

No residue to rinse off.

For some tasks, spray is sufficient  
without wiping.





# NEEDED!

Reduce contagion  
to help businesses stay open  
for employees & customers

## Solution

Use humidifiers & spray bottles to  
disinfect throughout workday,  
  
and foggers for fast, thorough  
cleaning after work hours



# Some uses in COVID-19 crisis to-date



SACRAMENTO REGIONAL TRANSIT DISTRICT

## SacRT Issues Update on Precautions Against Co

- During the flu season, trains and buses are fogged with Chlorine Di
- discovery of coronavirus, we are increasing that practice to every five days.



4 days ago | 16 views

dailymotion

## Thailand government use vehicles to roam streets and spray disinfectant

Newsflare

Follow

The Thai government are using specialise vehicles to roam the streets of Chiang Mai and spray disinfectant to help prevent the spread of COVID-19.

The cylinder-shaped vehicle sprays a chlorine dioxide mist, helping disinfect everything in the surrounding



# Challenges for Chlorine Dioxide personal use

*(Redneck version of  
sunlight protection)*



Lack of awareness about Chlorine Dioxide benefits

Negative publicity about dangers of drinking it

Needs protection from sunlight

Chemically “activating” incorrectly can cause hazards or poor effectiveness

Products have limited lifespans, from 1 to 30 days

# Some innovative types of products for Individuals

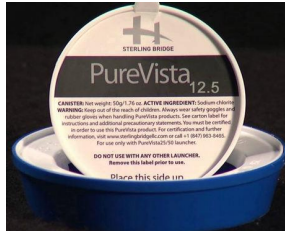


Photo credit: Quartz, qz.com

*\* Products shown are sample illustrations only.  
No recommendations are implied.*





**THERE ARE MORE SOLUTIONS!**

# Let others know

- Spread awareness that disinfection can be done safely IN THE AIR via fine-mist sprayers & humidifiers.
- Promote carrying PERSONAL SPRAY BOTTLES.
- Use Chlorine Dioxide for MULTI-PURPOSE disinfectant for air, skin (in addition to some hand washing), clothes & surfaces.
- Post links on social media to [CoronavirusCD.org](https://CoronavirusCD.org) and scientific research on the “Related Studies” page.

Visit

**CoronavirusCD.org**

**Simple methods to use**

**Chlorine Dioxide products**

**Related COVID-19 news stories**  
(plus a COVID-19 parody video)

**Links to scientific studies**

*For more info:*

**Contact@CoronaVirusCD.org**