



PRODUCT AND EQUIPMENT CATALOG

Safe, Effective and Easy...

WHY DISINFECT WITH CCS SOLUTION

Using CCS is Safe

Hypochlorous Acid is shown to be 100x more effective than bleach at killing pathogens. Using our fogging solutions will save employees considerable time as you can sanitize a 10x10 room in seconds for less than 3 cents.

Using CCS is Effective

Hypochlorous Acid in our products is a 100% natural compound that exists in every human body. It is non-toxic, odorless “worry-free” for human and pets and the environment. Causes no irritation to eyes, skin

Using CCS is Easy

Fogging using CCS Solution with Hypochlorous Acid is easy. Simply fog the areas you want sanitized and the fog will make it's way into intricate surfaces and spaces within the room. Afterwards, the HOCL will dry in seconds, no need to wipe down the surfaces afterwards.



Contact Contagion Control Solutions
817-822-9116

Organism Table for Disinfection Applications

Bacteria

<i>Bordetella bronchiseptica</i> [Kennel Cough] (ATCC 10580)
<i>Clostridium difficile</i> -spore (C. Diff or C difficile) (spores) (ATCC 43598)
<i>Escherichia coli</i> (E coli) (ATCC 11229)
<i>Klebsiella pneumoniae</i> New Delhi Metallo-Beta Lactamase (NDM-1) Carbapenem Resistant (CRE)
<i>Listeria monocytogenes</i> (Listeria) (ATCC 7644)
Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) (ATCC 33591)
<i>Pseudomonas aeruginosa</i> (Pseudomonas) (ATCC 15442)
<i>Salmonella enterica</i> (Salmonella) (ATCC 10708)
<i>Staphylococcus aureus</i> (Staph) (ATCC 6538)
Vancomycin Resistant <i>Enterococcus faecalis</i> (VRE) (ATCC 51229)

Mycobacterium

Mycobacterium bovis, BCG (Tuberculosis -or -TB)

Parvoviruses Non Enveloped

Canine parvovirus (ATCC VR-2016) [(Strain Cornell)]

Viruses Non Enveloped

Adenovirus (1 or Type 1) (Strain 71) (ATCC VR-1)
Norovirus or Norwalk Virus (as Feline Calicivirus) (Strain F-9) (ATCC VR-782)
Rhinovirus (16 or Type 16) (Strain 11757) (ATCC VR-283)
Rotavirus (A or Group A) (Strain WA) (ATCC VR-2018)

Viruses Enveloped

Canine distemper virus (ATCC VR-1587) [(Strain Snyder Hill)]
[Human] Hepatitis C [Virus] [(as bovine diarrhea virus)] [(HCV)] [(Strain ADL)] [(ATCC VR-1422)]
Human Immunodeficiency Virus Type 1 (HIV-1), strain IIIB (clade B); ZeptoMetrix
Influenza A (H1N1) Virus [(Strain A/Virginia/ATCC1/2009)] [(ATCC VR-1736)1 [(flu virus)]
Influenza A Virus (H1N1) A Swine/1976/31 (ATCC VR-99) [(flu virus)]
Respiratory Syncytial Virus (RSV) (Strain A-2) (ATCC VR-1540)
Swine Flu Virus (H1N1) A Swine/1976/31 (ATCC VR-99)

Yeast

Candida albicans (ATCC 10231)

Bloodborne Pathogens

[Human] Hepatitis C [Virus] [(as bovine diarrhea virus)] [(HCV)] [(Strain ADL)] [(ATCC VR-1422)]
Human Immunodeficiency Virus Type 1 (HIV-1), strain IIIB (clade B); ZeptoMetrix

Food-Contact Surface Bacteria

Listeria monocytogenes (Listeria) (ATCC 7644)

Organism List

Microorganism Efficacy Test

Test Substance Efficacy Results: These are the results of how the product performed against each test microorganism

MICROORGANISM	TIME POINT	% REDUCTION
<i>Acinetobacter baumannii</i> ATCC 19606	15 seconds	100%
<i>Enterococcus faecalis</i> (VRE) ATCC 51299	15 seconds	100%
<i>Listeria monocytogenes</i> ATCC 15313	60 seconds	>99.90%
<i>Propionibacterium</i> Acnes ATCC 6919	60 seconds	>99.99%
<i>Candida albicans</i> ATCC 10231	60 seconds	>99.9999%
<i>Proteus mirabilis</i> ATCC7002	15 seconds	>99.999%
<i>Serratia marcescens</i> ATCC 14756	15 seconds	>99.999%
<i>Staphylococcus aureus</i> (MRSA) ATCC 33592	15 seconds	>99.999%
E. Coli ATCC 8739	60 seconds	>99.999%
<i>Pseudomonas aeruginosa</i> ATCC 9027	60 seconds	>99.999%
S. aureus ATCC 6538	60 seconds	>99.999%
A. brasiliensis ATCC 16404	60 seconds	>99.999%
K. pneumonia (CRE) ATCC BAA-2146	60 seconds	>99.9994%
C. Difficile ATCC 43598	60 seconds	>99.9999%
Human Coronavirus Strain 229-E, ATCC VR-740	15 seconds	≥99.830%*
Adenovirus 2 ATCC VR-846	60 seconds	>99.99%

All microorganisms were killed in the 15 second contact time. 15 seconds was the quickest time to put neutralizing agents on test cultures.

*This is the highest possible reduction due to laboratories cannot fully grow the virus.



CONTAGION CONTROL
SOLUTIONS

SURFACE CLEANSER

Family-Safe, Highly-Effective, Eco-Friendly

Hypochlorous Acid is
100x more effective
than Bleach!*

Hypochlorous Acid is a naturally occurring substance in our bodies. It is the same chemical that white blood cells produce to fight infection and kill bacteria.

*Fact Sheet: Disinfection Using Chlorine Bleach Oregon State University Research Office

Chemical Comparison Chart

Solution Description	Bacteria	Viruses	Bacterial Spores	Fungi	Biofilm	Toxicity to Humans
Hypochlorous Acid	Yes	Yes	Yes	Yes	Yes	Non-Toxic
Ethanol Alcohol	Yes	Yes	No	No	No	Low/Medium
Isopropyl	Yes	Yes	No	No	No	Low/Medium
Quaternary Ammonium (QUAT)	Yes	Some	No	Some	No	Low/Medium
Sodium Hypochlorite (Bleach)	Yes	Yes	Yes	Yes	Yes	High

The effect of HOCL CCS on moisture and humidity on various fabrics

Prof M Clark & Dr R Kulkarni

Oct 2020

Introduction:

HOCL is a unique substance that has properties that make it very suitable for use in disinfection of various objects. It is completely natural, environmentally friendly, safe to humans and a large variety of materials and a powerful disinfectant. It kills 99.999% of all pathogens including Covid 19.

The hotel and hospitality industry has been severely affected by the pandemic. Fogging of HOCL has been proven to be an excellent method of disinfecting hotels and hospitality venues with high kill rates.

There has not been a previous study to see the effect of HOCL on different fabrics

Hypothesis

HOCL CCS is an appropriate disinfectant that causes no damage to any fabric and can be safely used to disinfect all fabrics

Aim

To independently test the effect of HOCL CCS on different fabrics

Materials and methods

•Measure temperature and keep constant

•Use a cool, dry area away from sunlight

•Parameters to test –

- 1)Performance of material
- 2)Moisture levels post fogging
- 3)Drying time after fogging

•Materials to test

- 1)100% POLYESTER LOOSE MATERIAL (I.E. BATH MAT)
- 2)100% POLYESTER TIGHT MATERIAL
- 3)100% WOOL
- 4)80% WOOL 20% POLYAMMIDE(NYLON)
- 5)100% COTTON
- 6)LEATHER
- 7)100% NYLON

•Test areas per material

- 1)FRONT AND REAR
- 2)FRONT AND REAR
- 3)FRONT AND REAR
- 4)FRONT AND REAR
- 5)FRONT AND REAR
- 6)FRONT AND REAR

Process

•Material to be touched, sat on and walked on prior to testing and 10 minutes after testing for subjective assessment of performance. Please score on a scale of 1-10. 1 being normal and 10 being abnormal

•Using moisture monitor measure the moisture from all the selected areas for each material and record

•Using a CCS fogger the material adequately to ensure total coverage. Record the time needed for each material.

•Repeat a moisture test for all areas immediately after fogging, at 5 minutes and at 10 minutes. If moisture content at 10 minutes is higher than base line do a further test at 15 minutes

•Video the whole process

Measurement tools

Moisture Measuring Tool: EXTECH DUAL MOISTURE METER (MO55)

Independence

These tests were conducted by Mr Robert Kendell, a professional musician himself and CEO of DONAU Express Services LTD, a specialist cleaning company.

Results: Moisture levels and humidity

Analysis

The results were analysed and are in the table below

So the analysis showed

•There was an increase in moisture in all recordings

•100% Nylon had the highest increase in moisture and the average increase for all fabrics was 114%

•The increase was significant but returned to normal within 10 minutes for all fabric types

•From a visual appearance and feel there was no change in all fabrics

Conclusions

We already know that HOCL CCS and fogging is extremely effective in disinfection and is safe to humans. These tests have also confirmed that fogging various fabrics whilst increased the moisture levels significantly did not cause any detrimental effect and does not cause any sustained increase in moisture levels.

We recommend HOCL CCS to be used by fogging using CCS fogging system to disinfectant all fabrics

Effects of HOCL on fabrics



100% Polyester loose	Pre fogging	Immediate post fogging	5mins post fogging	10mins post fogging
Bath Mat	2.7	5.3	4.7	2.9
100% Polyester Tight	Pre fogging	Immediate post fogging	5mins post fogging	10mins post fogging
Lining of a rucksack	2.8	12	5.3	2.6
100% Wool	Pre fogging	Immediate post fogging	5mins post fogging	10mins post fogging
Cashmere Jumper	3	5.3	4.3	2.8
80% Wool 20% Polyamide	Pre fogging	Immediate post fogging	5mins post fogging	10mins post fogging
Clothing	2.7	5.3	4.3	2.8
100% Cotton	Pre fogging	Immediate post fogging	5mins post fogging	10mins post fogging
Stock material	3.3	6.8	5.7	3.1
Leather	Pre fogging	Immediate post fogging	5mins post fogging	10mins post fogging
Craft Piece	5.4	10	5	5.5
100% Nylon	Pre fogging	Immediate post fogging	5mins post fogging	10mins post fogging
Strapping	3.3	14.9	8	3.3
Unknown	Pre fogging	Immediate post fogging	5mins post fogging	10mins post fogging
Carpet with hard backing	5.9	8.8	5.5	5.4
Fabric	Post fogging increase in moisture		Time to return to normal	
100% Polyester loose	96%		10 minutes	
100% Polyester tight	57%		10 minutes	
100% Wool	77%		10 minutes	
80% Wool 20% Polyamide	96%		10 minutes	
100% Cotton	106%		10 minutes	
Leather	85%		5 minutes	
100% Nylon	351%		10 minutes	
Unknown – Carpet with hard backing	49%		5 minutes	

Contagion Control Solutions... BETTER THAN THE COMPETITION

Safe Effective Contagion Control for

- Coronavirus
- Norovirus
- Seasonal Flu Virus
- Bacteria
- Pathogens
- E.Coli
- Norwalk Virus
- MRSA
- C-Diff
- Mold and fungus



Read Label Information	 CCS	 BRUTAB 6S	 Thymol - Bioesque
Active Ingredients	Proprietary Formulation w/Electrolyzed Salt Water And Stable pH	Dichloroisocyanuric Acid Sodium Salt and Sodium Carbonate Adipic Acid	5-Methyl-2-Isopropylphenol 5-Methyl-2-(1-Methylethyl)Phenol 2-Isopropyl-5-Methylphenol
EPA 'N' List Registered	Yes	Yes	Yes
FDA Cleared	Yes	No	No
3 rd Party Efficacy Testing for Coronavirus Kill Rate	Yes (as fast as 15 seconds)	No	No
Application & Sanitizing Uses	- Spray - Wipes - Hand Sanitizer - Environment Fogging - Walk-Through Tunnels - Grocery Cart Fogging Tunnels	- Tablet Form (requires on-site mixing solution and correct dilution) - Spray	- Spray
Hazardous WARNINGS	None	- Acute Toxicity - Oral - Acute Toxicity - Dermal - Serious Eye Damage/Irritation - Skin Irritation - Respiratory Irritation - Harmful if swallowed - May cause respiratory irritation - Hazardous Gas If Burned	- Severe Eye Irritation & Injury - Skin Irritation & Burning - Harmful If Swallowed - Avoid Inhalation - Inhalation Causes Chemical Burns Prolonged Exposure Can Cause Reproductive Issues (See SDS) - Hazardous Smoke If Burned
FIRST AID Recommendations	- Eye Irritation : Rinse With Water - Skin Irritation : Rinse With Water - Ingested : Drink A Glass Of Water - Lung Irritation : Fresh Air NO MEDICAL AID NEEDED	- Eye Irritation : Flush With Water For 15 Minutes And Seek Medical Attention - Skin Irritation : Seek Medical Attention If Symptoms Persist - Ingested : Get medical attention or contact Poison Control : Dilute with Water, Do Not Induce Vomiting - Lung Irritation : Fresh Air or Seek Medical Attention if no change	- Eye Irritation : Flush With Water For 15 Minutes And Seek Immediate Medical Attention - Skin Irritation : Get Medical Aid Immediately - Ingested : Do Not Induce Vomiting, Seek Medical Attention - Lung Irritation : Leave Area And Seek Medical Aid Immediately
SAFE For Finishes / Non-Fading	Safe	Damages/Fades Surface Finishes Chlorine Scent - Corrosive	Damages/Fades Surface Finishes
LIABILITY / Use Exposure	None	Extreme Care Should Be Taken Limiting Harm To People/Property	Extreme Care Should Be Taken Limiting Harm To People/Property
Fogger Requirement	No PPE Required	PPE Required	PPE Required
Safety Data Sheet	https://pncvision.com/wp-content/uploads/2020/09/PureClean_SurfaceCleanserSafetyDataSheet_v09.2020-1.pdf	https://www.aarc.org/wp-content/uploads/2015/02/Brutab-MSDS-161021_msd.pdf	https://apps.wku.edu/sds/uploads/docs/7315.pdf




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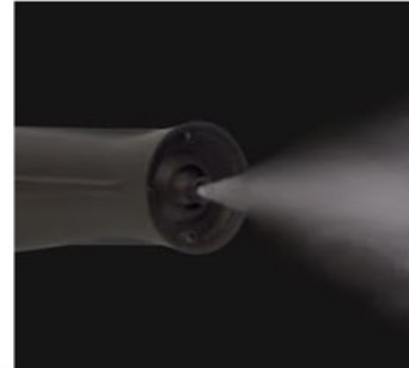
HOCH

Sanitize in seconds...

ULV ELECTROSTATIC- COLD FOGGER

Long Life Rechargeable Battery
Light-Weight 6 Lbs.
Powerful 240W
2 Liter Tank

 Up to 8 Hours on
One 2 Hour Charge



10-80 UM
Adjustable
Droplet Sizes

3 Nozzles
and Carrying
Strap Included



CONTAGION CONTROL
SOLUTIONS

ULV COLD MIST FOGGER TECHNOLOGY

Breaks up the disinfectant solution into tiny nanoparticles and disperses them as small as 10 microns. No need to wipe down any surfaces, simply spray on and the surfaces will be disinfected and dry within seconds. Fog nuclei are dispersed over a distance of 25+ feet in the air.



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HOCL

Our Biggest tank...

BACKPACK ULV ELECTROSTATIC FOGGER



4 Gallon Tank
4-15 ft, Long Distance
Spraying
Airgun and Wand
Attachment
72 PSI
9 Oz. per Minute Flow
Powerful 12v

Pictured with AirGun Attachment, Custom
Branding Available



Wand produces larger 40µm droplets
for large areas, tables, chairs, etc..



HOCL

The Power of Electrostatic Fogging

Electrostatic spraying improves product adhesion to surfaces, the media sprayed is broken down into very small charged particles that are attracted to the surface. This Electrostatic attraction allows for coverage of more surfaces than relying on a gravity-based spread of the droplets. The positively charged droplets will wrap around surfaces and attach themselves on vertical surfaces as well as the underside surfaces. Powered by pulsed electric motors this sprayer produces spiral vibrating air to carry the droplets onto the surface. The high-pressure tips break the liquid down at the nozzle instantly with the fluid nebulizing into a mist with particle size from 5 to 50µm (micron). The sprayer sends this fine mist or fog rapidly spreading into the air offering a high penetration and adhesion. Electrostatic spraying with HOCL offers the best efficiency and coverage when sanitizing, deodorizing and spraying. Generally, you can use 50% to 65% less HOCL to complete the same task. CCS' 12v Battery powered sprayer allows complete independence when spraying to allow movement around obstacles, furniture, equipment and cubicles.



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Keep Rooms Clean All Day...

ENVIRONMENTAL FOGGING SYSTEMS

Intelligent Continual HOCL
Cleaning
3 Levels of Fog Adjustment
Extendable
Remote Controllable
Timing Functions (1-12 Hours)
UV Lamp
Powerful 135w
3.9 Gallon Capacity
Only 12 Lbs. and Easy to Move



HOCL



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Peace of mind for Guests...

HIGH VOLUME DISINFECTING GATES



Stainless Steel Construction Options,
High Quantity Availability
(orders of 50+ units)

Walk through Gates

WiFi Enabled
Temperature Checker
Fast and User Friendly
High Temperature Alarm
Hand Sanitizer Dispensers
Optional Face Recognition
Leaves No Chemical Residue
Fast - 7 people per minute



Cart/Luggage Cleaning Gates

CCTV security
Fast and User friendly

Save Money on Labor Costs, and
disinfectant. HOCL can be diluted up to 10 times.

Guest Sanitizing in 3 Quick Steps..

Enter Station: Motion activated. Automated infrared thermal camera senses guest body temperature. Hand Sanitizer conveniently located for guest convenience.

Sanitizing : Super-fine mist with ultrasonic, atomized solution for immediate protection in seconds. This light translucent mist will not disturb cosmetics or hair and is gentle to even the most sensitive skin.

Exit : The Sanitizing Station provides individuals with a translucent, protective veil while leaving no chemical residue on clothes. The sanitizing mist breaks down to a saline solution and is effective in eliminating biofilm and controlling its regrowth.

HOCL



HOCL is an FDA approved ingredient and has accredited approvals such as ISO and EU for use in industries including food and beverage processing and medical applications.



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Stay Clean While on the Go...

CCS PERSONAL HOCL MISTER

HOCL



Effective



Pocket Sized



Ready To Go

Bring HOCL with you
wherever you go.
The safest and most natural
cleaner around!



Contact Contagion Control Solutions
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Gentle Care All Over...

HAND SKIN AND FACE CARE



Hand & Skin Cleanser

Cleans
Moisturizes
Softens
Beautifies
Soothes Dry, Cracked Skin



Face & Skin Shield

Keep your skin clean, healthy
and hydrated.
Calms skin irritations
Cleanse and hydrate post
workout or during travel
Helps reduce redness
Sets makeup



Hand & Skin Cleanser GEL

Cleans
Moisturizes
Softens
Beautifies
Soothes Dry, Cracked Skin



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HOCT

Heal with the Power of Nature...

CCS WOUND AND FIRST AID SOLUTION

100H

First Aid Solution

Safe for minor wounds and irritations caused by:

- Cuts and scratches
- Insect bites/stings
- Sunburns
- Poisoned plant sap irritations
- Blisters
- Rashes & scrapes
- Dry skin



Hypochlorous Acid is a 100% natural compound that exists in every human body. It's what makes CCS non-toxic, odorless "worry-free" for human and pet use. Safe and effective use for sunburns, cuts, insect bites, stings, burns, plant saps & oils, blisters and scratches.

Wound+Skin Solution

Minor cuts
Minor burns
Minor skin abrasions
Minor irritations



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For the Pets in Your Life...

PET CARE PRODUCTS



VetSol+ Eye & Ear Wash

Flush away eye and ear pollutants
Remove tear stains
Helps accelerate healing process
Safe around nose and mouth
No sting or burn



VetSol+ Wound & Skin Solution

Skin irritations
Post-surgical sites and lacerations
Navel and umbilical cleaning
Debriding and cleaning of animal wounds
Burns
Helps accelerate healing



VetSol+ Skin & Coat Grooming Solution

The choice product for dog, cat, or horse groomers
Safe for all animals, even reptiles and birds
Moisturizes and soothes itchy, irritated skin and improves the appearance of hair and fur all in one step
Safe to use around the eyes, nose, and mouth
Safe if licked and will not irritate wounds or sores



Pet & Home Deodorizer

A natural solution to provide a healthy way to oxidize the odors, not cover them up!

- Skunk odor
- Trash cans
- Pet areas, kennels, litterboxes
- Cigarette smoke
- Humidifiers
- Kitchen and bathroom
- Non-sensitizing and non-irritating to skin



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HOCL

Clean Surfaces with Confidence...

CCS SURFACE CLEANSER



- Replacement for the everyday chemical cleansers
- Perfect for kitchen countertops and bathrooms
- Safe for use in the nursery and the changing table
- Can be used in humidifiers or air-cleaning systems
- Non-toxic to humans and pets
- Contains No VOCs, petrochemicals, sulfates, or bleach
- Environmentally safe and responsible



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HOCL

Natural Disinfection Made Easy...

CCS DISINFECTANT/ SANITIZER



- Kills multi-drug resistant pathogens (VRE, CRE)
- Kills C-diff spores
- Kills enveloped and non-enveloped virus (AIDS, H1N1, Norovirus, Rhinovirus,)
- Kills gram positive and gram negative bacteria.(TB, MRSA, Klebsiella, Salmonella)



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H₂O₂