



THE
PHARMA-ROOM
SURFACE WASH



WEATHERSKIN PRESENTS THE PHARMA ROOM: SURFACE WASH

DISINFECT CARE FACILITIES,
HOSPITALS, LARGE PUBLIC SPACES,
BUSINESSES, HOMES, CARS AND MORE.

**DESTROYS 200+ BACTERIA AND VIRAL PATHOGENS
WITH THE FASTEST KILL-RATE IN EXISTENCE (99.9%)**

TRUSTED BY MAJOR BRANDS INCLUDING: COCA-COLA, HEINZ, KRAFT, AND THE WORLD HEALTH ORGANIZATION.



THE PHARMA ROOM: **SURFACE WASH**

We use nature's cleanest delivery system: de-ionized water. The **ONLY** chlorine dioxide product to deliver chlorine dioxide gas in a user-friendly, safe and uniquely stable way. Our disinfectant leaves no trace of bi-product, white film, or residue.

With the current global climate under pandemic attack, it could not have come at a better time. Protecting people from pathogenic transfer is our primary motivation.

Regards,

The Weatherskin Team

DISTINCTLY **DIFFERENT**

	THE PHARMA ROOM: SURFACE WASH	SODIUM/CALCIUM HYPOCHLORITE (BLEACH)	GLUTERALDEHYDE	PERACETIC ACID	QUATERNARY AMMONIUM COMPOUNDS	IODOPHORS
Performance	Very High	Moderate	Moderate to High	Moderate	Moderate to High	Moderate
Contact Time	Seconds	Minutes to Hours	30 Minutes to several hours	Minutes	Minutes to Hours	Minutes to Hours
Concentration	.1 ppm - 500 ppm	1,000 ppm - 10,000 ppm	500 ppm to 10,000 ppm	30 ppm - 200 ppm	100 ppm - 10,000 ppm	500 ppm - 10,000 ppm
pH	Effective over Neutral to Acidic	Acidic to Corrosive	Neutral	Acidic	Acidic ro Neutral	Neutral to Acidic

SAFE, CLEAN, AND **EFFECTIVE**

- ✓ EPA approved for use on fruits, vegetables and meats
- ✓ Does not create toxic by products harmful to wildlife or environment
- ✓ Is effective over a wide pH range (3-12)
- ✓ Destroys harmful biofilm
- ✓ Preferred sanitizer by large food processing and bottling plants
- ✓ 5x to 8x more effective than chlorine
- ✓ Kills many pathogens that chlorine cannot
- ✓ Does not cause or allow pathogenic mutation
- ✓ Deadly to pathogens but safe for complex organisms



MEDICAL-GRADE
100% ECO-FRIENDLY
SAFE FOR IMUNO-COMPROMISED PERSONS
ZERO RESIDUES / NO WIPING
NO MIXING OR RINSING REQUIRED
KILLS BAD ODOR AND LEAVES NO SCENT
SIMPLE AND EASY TO USE

DISINFECTS APPROXIMATELY: _____

10,000 SQ. FT

(1 AVERAGE HOME OR SHOP)

OF WALLS, FLOORS, CEILINGS AND **ANY OTHER SURFACES**

CAN CLEAN IN UNDER: _____

10 MINUTES

WHEN FOGGING IS USED TO APPLY*

**actual time may vary depending on equipment and setup*

MULTIPLE APPLICATIONS INCLUDING: _____

**SPRAY AND FOG/MISTING
TO ENSURE ULTIMATE
COVERAGE**



THIRD-PARTY TEST RESULTS

EXAMPLES - SUMMARY OF OUR PEER-REVIEWED JOURNAL DATA

Highest Resistance to Lowest Resistance (Top to Bottom)

Clostridium sporogenes	15 seconds dwell time	98.07% KILL
Enterococcus faesium	15 seconds dwell time	99.99% KILL
Escherichi coli	15 seconds dwell time	99.99% KILL
Listeria monocytogenes	15 seconds dwell time	99.99% KILL

EFFICACY: CHLORINE DIOXIDE in aqueous solutions

ANTIMICROBIAL RESISTANCE CHART

Highest Resistance to Lowest Resistance (Top to Bottom)

Examples - summary data from various studies published in peer-reviewed journals

C. difficile	99 - 100%
Salmonella	99 - 100%
Polio virus	99
Influenza A virus	99 - 100%
Fungi	98%
Listeria	99
L. buchneri	99 - 100%
Candida albicans	99 - 100%
Rotavirua WA	99 - 100%
S. aureus	99 - 100%
Pseudomonas spp	99 - 100%

INDUSTRIES AND ADDITIONAL USES

For further instructions on specific use product dilution, and before attempting any of the following applications, please consult the technical data sheet for complete information.

- Odor, slime and microbial control of membrane systems: systems and food and beverage processing.
- Sanitization rinse of food contact surfaces, storage and utensils.
- Disinfection / sanitization of non-porous, hard surfaces such as walls, ceilings, tiles, floors, windows and tables.
- Sanitization and deodorization of healthcare, nursing and morgue facilities.
- Control and prevention of algae, fungi, bacteria, slime, mildew and biofilm contamination in agricultural and horticultural storage areas, work - areas, tools, benches and walkways.
- Treatment of potable water for human consumption.
- Treatment of water for animal consumption.
- Sanitization of animal confinement, rearing and holding facilities.
- Sanitization of animal transport conveyances, rail cars, trailers and vessels.
- Control of odor and slime build-up in animal confinement facilities.
- Treatment of indoor swimming pools, hot tubs and spas.
- Slime and algae control in ornamental pools and spray fountains.
- Sanitization of water tanks of recreational vehicles, boats and aircraft.
- Treatment of potable water in tanks of recreational vehicles, boats and aircraft.
- Sanitization of processing equipment and non-food contact surfaces in dairies, breweries, wineries and bottling plants.

- **Terminal food-contact surfaces sanitizer rinse in poultry, meat and fish processing plants, dairies, breweries and bottling plants.**
- **New bottle and container sanitizing spray rinse cip equipment.**
- **Terminal sanitizing of surfaces such as tanks, transfer lines, hard nonporous food contact surfaces, food and beverage processing equipment.**
- **Odor, slime and microbial control of food-processing water systems: flume transport, chill water and water cooling/warming systems.**



DILUTION CHART FOR THE PHARMA ROOM: **SURFACE WASH** (500 PPM) TO MAKE **2 GALLONS** OF DILUTED PRODUCT

CONCENTRATION	STRENGTH	ADD THIS MUCH WATER	TO THIS MUCH SURFACE WASH
10 PPM	2%	251 oz	5 pz
50 PPM	10%	230 oz	26 oz
100 PPM	20%	205 oz	51 oz
200 PPM	40%	153 oz	102 oz
250 PPM	50%	128 oz	128 oz
300 PPM	60%	102 oz	153 oz
500 PPM	100%	Full Concentration - Do not dilute	

1 (877) 693-9224

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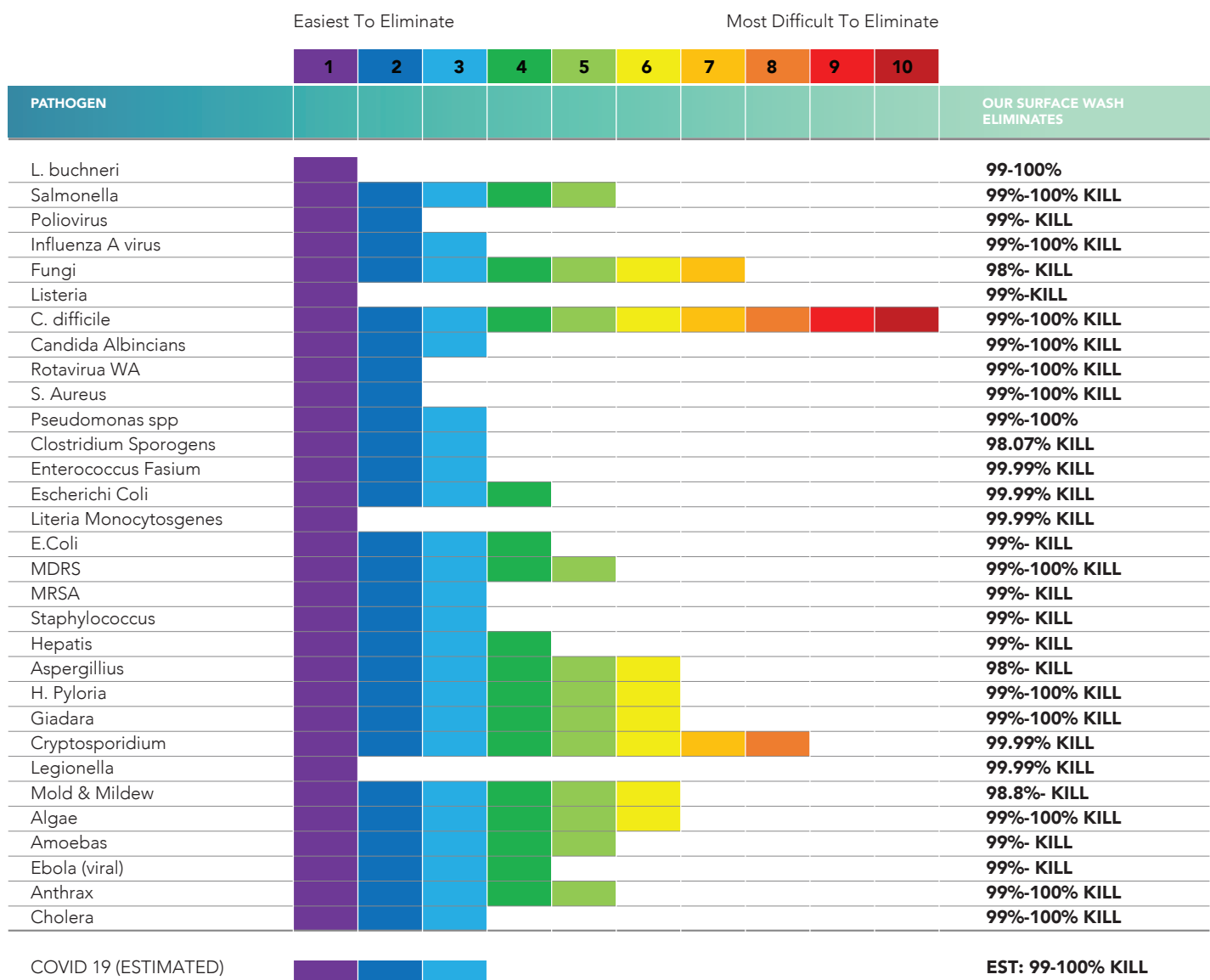


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DOES THE PHARMA ROOM: SURFACE WASH KILL COVID-19?

While other brands are marketing themselves COVID/Coronavirus killers pre-emptively (small print usually says COVID-2 or SARS or MERS) The Pharma Room: Surface Wash does not want to deceive our buyers. Until the EPA and Health Canada have tested our product on COVID-19 itself, not just a 3-envelope virus of similar composition, The Pharma Room: Surface Wash will only provide an educated estimate on our expected kill-rate, and ease of kill, when it comes to COVID-19. We have excellent kill-rate elimination results of pathogens equal to, or stronger in nature than COVID-19. Bacteria that carry mass are historically far harder to eliminate than viral pathogens.





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SANITIZER & DISINFECTANT SELL SHEET

POWERFUL INDUSTRIAL DISINFECTANT FORMULATED FOR RESTAURANT-SAFE USE

- **Safe around food, employees and guests.**
- **No harmful triclosan, alcohol, ammonia or phenol.**
- **No toxic byproducts or strong odors.**
- **No residual taste or smell.**
- **Non-irritating, non-corrosive.**



No mixing. No measuring. Just spray and go.

The Pharma Room: Surface Wash is an ultra-pure, food safe, and uniquely stable colloidal suspension of active (non-chlorite) CIO₂ developed for everyday use. Labor-saving, no-rinse spray mist The Pharma Room: Surface Wash sanitizes ceilings, walls, floors, glass, tile, furniture, food prep, freezers and storage, restrooms, bathrooms, sinks, drains, pools, linens and more.

Better for customers and employees.

The Pharma Room: Surface Wash kills a broader range of infectious microbials than other hand sanitizers. The Pharma Room: Surface Wash eliminates odors and won't leave harmful chemical residue or dry out skin.

RAPID KILL: ELIMINATES OVER 200 KINDS OF PATHOGENS

INCLUDING

Clyclospora
Salmonella
Listeria
C. Botulina
Influenza
Campylobacter
Common Colds
Novovirus
Candida

E. coli
MDRS
MRSA
Staphylococcus
Pseudomonas
Hepatitis
Rotavirus
Aspergillus
H. pylori

Giarda
Cryptosporidium
Legionella
Mold and Mildew
Algae
Amoebas
Ebola
Anthrax
Cholera

**Costs Less and Does More
than Bleach or Hydrogen
Peroxide.**



The Pharma Room: Surface Wash is fast, effective and error-proof.

- 3-10 minute kill of prevalent food-borne illnesses.
- 15 - 30 second kill of prevalent surface pathogens.
- Spray on surface and let air dry or wipe.
- Short contact time, long-term residual effectiveness.
- Penetrates and disrupts biofilm and slime.

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TESTIMONIALS AND USE CASES

BREWERY & BEVERAGE

Membrane System Sanitation: CIP

Problem

Previous membrane system sanitation processes, required complete removal, of equipment as systems were "fouling out". Previous disinfectant treatments required multiple rinse cycles and destroyed costly hollow fiber membranes.

Solution

The Pharma Room: SURFACE WASH was brought in as a complete CIP system 100 to 200 ppm) for weekly disinfection. No rinse/no flush requirements for The Pharma Room: SURFACE WASH resulted in significantly less downtime. Membrane service life was considerably improved while increasing disinfection efficacy.



"The Pharma Room: SURFACE WASH has been a great addition to our product line. We are utilizing it to sanitize membrane systems for our clients. Sensitive products require more frequent and thorough cleanings. We have had plenty of success with the The Pharma Room: SURFACE WASH line. Clients like Coca Cola, Heinz/Kraft and numerous pressed juice companies rely on this product for peace of mind."

John Kehrberg, Owner
Process Perfection Consulting

BOTTLE RINSE

Beverage Filling Facility

- Improve compliance
- Improve odor control
- Improve sanitation fewer spoilage variables
- NO toxic byproducts or odors
- Will not harm water safe surfaces

Problem

Corrosive hypochlorite and chlorine sanitizing treatments form hazardous compounds that can taint food, and chlorine leads to TCA generation. Peracetic CIP systems are often sanitized with a strong caustic dose of 50 mg/L. Peracetic acid can cause chemical burns to skin and leaves a distinctive vinegar odor that can be difficult to remove, even with repeated rinse cycles. Significant odor and hazardous conditions during regular automated spray cleaning prevented workers from entering the bottle cleaning areas entirely.

Solution

1 to 5 mg/L chlorine dioxide CIP systems perform the same sanitizing function as all of these treatments, without the need for extensive rinse cycles. The Pharma Room: SURFACE WASH eliminates a wider range of pathogens, more safely and with no residual odors or flavors, leaving just sanitized, food safe bottles and surfaces. Odor, corrosion of costly equipment, and hazards to workers are reduced, allowing safer and faster re entry into the bottle cleaning area.



MANUFACTURER **STOPS OUTBREAK**



Case Study CIP at Selective Supplements

Problem

Consistently destroying product lots because of microbial contamination. There was vulnerability of starch and glucose based production in mold rooms, mixing tanks, automated assembly lines and inside drying rooms. Stringent observance of aseptic procedures using conventional disinfection products failed to meet high QC standards of the company.

Solution

Periodic, regularly scheduled in-line cleaning using The Pharma Room: SURFACE WASH to disinfect tanks and assembly lines. Cleaning of molds, and fogging of drying rooms enabled the company to exceed the highest bar of expected aseptic standards to prevent loss of product due to microbial contamination. They can now ensure public safety and avoid potential for recall prompted by microbial contamination (as recently suffered by their local competitor).



"I rely on The Pharma Room: SURFACE WASH. It makes me rest easy that there will be no problem in my facility."

Jesus Garcia

Plant Manager - Select Supplements

NUTRACEUTICAL: SELECT SUPPLEMENTS CONTINUED

CIP



FOGGING



REPELLING ODOR FROM MEXICAN QUICK SERVE FOOD CHAIN DRAINS - **A CASE STUDY**



Case study at a restaurant

Problem

This busy multi-location quick serve Mexican restaurant was having issues with odor control. The drains were emitting a terrible smell, driving away customers and irritating staff.

Uses

Killing of odor causing bacteria in drains. Poured 1 liter @ 500 ppm down each drain.

Sanitation of work surfaces and floors .
Spraying and mopping @ 200 ppm.



"I was very surprised how well The Pharma Room: SURFACE WASH got rid of the bad smell. I am a believer."

Pepe

Owner - Porkyland

CASE STUDY - MEXICAN QUICK SERVE FOOD CHAIN, CALIFORNIA

A test was conducted to demonstrate the speed and effectiveness of The Pharma Room: SURFACE WASH on hard surfaces.

- Test location: Stand-up-bar of restaurant.
- Bar was swabbed and tested for its contaminant load. It read very high at 1106 rlu.
- The Pharma Room SURFACE WASH at 200 ppm was sprayed directly onto the bar.
- After a 60-second dwell period, the area was swabbed and tested again. The contaminant load decreased drastically to just 2 rlu!



ORGANIC CONTAMINANT LOAD **BEFORE**
THE PHARMA ROOM SURFACE WASH - 1106



ORGANIC CONTAMINANT LOAD **AFTER**
THE PHARMA ROOM SURFACE WASH - 2

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THE PHARMA ROOM: SURFACE WASH

THE ADVANTAGES OF CHLORINE DIOXIDE VS. BLEACH

BLEACH	CHLORINE DIOXIDE
Does not remove biofilm	Removes biofilm
Produces unwanted by-products including carcinogens	Does not form chlorinated by-products or THMs
Is corrosive and unpleasant to handle	Is much less corrosive. Does not hydrolyse to form an acid
Already banned in certain parts of Europe and US	Is rapidly replacing chlorine bleach in many of these areas
Is pH dependent and very ineffective above pH7	Is not pH dependent (<pH11)
Is ineffective against complex organisms (e.g. cysts & protozoa)	A very broad spectrum kill*
Limited oxidative effect against various chemical contaminants. Forms chlorinated phenols	Destroys phenols (without forming chlorinated phenols) specific destruction of Hydrogen Sulphides. Destruction of a wide range of chemical contaminants#
Neutralization required before dumping into the foul drain	Because no unwanted by-products are formed, and will have a lower residual after use, no neutralization normally required
Cannot be used at temperatures above 40 degrees Celsius due to the release of chlorine gas	Effective at higher temperatures - does not disassociate as rapidly as chlorine
Treatment time requires Minutes to Hours	Treatment time requires Seconds to Minutes
Effective Concentrations are 5,000 - 10,000 ppm	Effective Concentrations are 50 - 1,000 ppm
Increased disinfection time and more service work required to combat high bug counts	Cost savings in labor and use efficiency outweighs the additional chemical costs

* Includes aerobic, non-aerobic, gram positive & gram negative bacteria, spores, viruses, fungi, cysts and protozoa

Includes iron, manganese and other metallics, phenols, trichlorophenols, hydrogen sulphides and sulphides

(Reference: Dr. Henry Luftman and Scotsman's Group)

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WATER TREATMENT

Chlorine Dioxide is registered by U.S. EPA for use in numerous water purification and deodorization applications. Examples include, emergency drinking water purification, control of bacteria growth in ice machines and water cooling towers, treatment of white water mold and slime in swimming pool plumbing systems, and sanitization applications for pathogen control.

Chlorine Dioxide is ideal for disinfection of potable water storage tanks. Bacteria-harboring biofilm is commonplace in these storage vessels, as the chlorine from the make-up water is insufficient to remove biofilm during cleaning cycles and to prevent its regrowth on an ongoing basis in tanks and water pipes.

Treatment of Ground Water

The general procedure for treating ground water is: post filtering for debris oil and soil, introduce ClO₂ at the storage tank using antiseptic pumping equipment with a metering device to treat the water directly. Dosage will depend on the bacterial loading and will require monitoring during the process until desired sanitation is achieved. It could range from 0.3 mgS/L to 1 mg per liter for normal circumstances. Or for bacterial content of 100 coliforms per 110 mls of water 0.5 mg/L.

EDUCATION: SURFACE WASH IS NOT BLEACH

CHLORINE

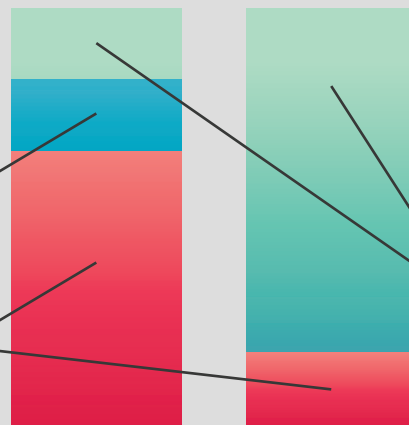
VS

THE PHARMA ROOM: SURFACE WASH

How chemistry impacts dosage requirements

Amount 'inactivated'
by pH effects

Amount consumed
by organics and
ammonia



Cl₂

ClO₂

Amount available for
disinfection

Longer dwell time
Corrosive
Conductive
Narrow efficacy range
Hazardous residue (must rinse)

Seconds of dwell time
Non-corrosive
Non-conductive
Wide efficacy range
No residue (no rinse)

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THE PHARMA ROOM: SURFACE WASH

CANNABIS INTERIOR FARMING SELL SHEET



MOLD PREVENTION & REMEDIATION CANNABIS SOLUTION

SUPERBUGS DEVASTATE REPUTATIONS & PROFITS.
Protect plants & consumers from spread of infectious outbreaks.



3-IN-1

Sanitizer
Disinfectant
Controls Odor

Guaranteed purity. Guaranteed quality.

SAFER. STRONGER. GREENER.

NO Chlorine, Alcohol, Ammonia or Phenols.
Creates NO toxic byproducts, leaves NO residue.
Won't harm water-safe surfaces, hands or tubing.

World Health Organization report describes CLO2 as the: "safest disinfectant."

SEED TO SALE

Municipal water supplies, industrial food processors, and greenhouses rely on the power of chlorine dioxide - now you can, too. Chlorine dioxide kills a broader spectrum of pathogens than chlorine, hydrogen peroxide, or alcohol, without causing bacteria to mutate into disease resistant strains.

The Pharma Room: SURFACE WASH liquid is a cutting edge sanitizer/disinfectant based on reagent-quality, pure components that bring the power of active chlorine dioxide to you - in a ready-to-use liquid form. It's our proprietary colloidal suspension process that makes it possible to offer a true chlorine dioxide product that is safe, easy and effective and stable enough for commercial use.

Solution for Vulnerable Situations

- Growing Phase
- Drying Phase
- Curing
- Processing
- Packaging
- Edibles



Don't be fooled; all chlorine dioxide is NOT alike.
Sodium chlorite/citric acid tablets are corrosive & less effective.
Any impurities heavily impact chlorine dioxide's effectiveness.

THE PHARMA ROOM: SURFACE WASH IS MADE WITH PURE, TRUE CHLORINE DIOXIDE, GUARANTEED.

The Pharma Room: SURFACE WASH liquid contains 500 parts per million (ppm) chlorine dioxide.

Unopened container shelf life: 1 year.

Opened container shelf life: Varies, up to 6 months if kept tightly sealed and refrigerated when not in use.

Application: Hand spray bottle, pump sprayer, fog machine, humidifier. Recommended 10 minute dwell time. The Pharma Room: SURFACE WASH does not need to be wiped dry, ideal to let air dry.

Contact your local distributor at weatherskin.com/contact or visit thepharmaroom.com/surface-wash for supporting documents, safety data sheets, and more information.

STRONGER THAN BLEACH AND HYDROGEN PEROXIDE

The Pharma Room: SURFACE WASH is a food safe, uniquely stable colloidal suspension of active (non-chlorite) CIO2 developed for everyday use. 5-8x the effectiveness of chlorine, The Pharma Room: SURFACE WASH kills pathogens other products can't touch with no residue and no effect on flavor. Labor-saving, no-rinse spray mist sanitizes hands, facilities, pots, lighting, greenhouses, RO systems, food prep areas, storage, restrooms, countertops, utensils, equipment, drains, tubing, vents, water storage, retail areas & more.

- **Cost effective, works in seconds**
- **Long-term residual effectiveness**
- **Excellent against biofilm & slime**
- **Controls odor, kills bad odor**
- **Noncorrosive, not a 2-part**
- **No onsite generator required**

**READY TO USE!
1 PART LIQUID**



RAPID KILL: ELIMINATES OVER 200 PATHOGENS

Clyclospora
Salmonella
Listeria
C. Botulina
Influenza
Campylobacter
Yersina
Novovirus
Candida

E. coli
MDRS
MRSA
Staph.
Giarda
Hepatitis
Rotavirus
Aspergillus
Crypto.

Giarda
Legionella
Pseudomonas
H. pylori
R. Solani
Phomopsis
Botrytis
Stemphylium
T. Roseum

Sclerotinia
M. phaseolina
Phoma
Anthracnose
Coercospora
Uncinula
Thielaviopsis
Xanthomonas
Rhizoctonia

Pseudocercospora
Plasmopara
Alternaria
Pythium
E. Phytophthora
Fusarium
Botrytis
E. Phytophthora
Colletotrichum

**MOLDS & MILDEW
BACTERIA & VIRUSES
ENDOSPORES & FUNGI
PROTOZOAN CYSTS
HARMFUL YEASTS**

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THE PHARMA ROOM SURFACE WASH

SAFETY DATA SHEET

1. IDENTIFICATION

1.1 Product identifier

Trade name	The Pharma Room: SURFACE WASH (500 ppm)
Manufactured by	Weatherskin Coatings
Product code	SW SERIES: SW-500, SW-240, SW-030-81, SW005
Other means of identification	Active Chlorine Dioxide

1.2 Recommended use and restriction on use

Recommended use	Sanitizer, Disinfectant, Deodorizer, Biocide
Restrictions on use	No relevant information available.

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier	Weatherskin Corporation 4209 Brandon Street SE, Calgary AB CAN, T2G 4A7 (877) 693-9224
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1.4 Emergency telephone number

For chemical spill information call CHEMTREC	1-800-424-9300
For emergency medical information, call the National Pesticide Information Center	1-800-858-7378



2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

2.2 Label elements

The product is not classified as hazardous according to OSHA GHS regulations within the United States.

2.3 GHS label elements

None.

2.4 Hazard pictograms

None.

2.5 Signal word

None.

2.6 Hazard statements

None.

2.7 Precautionary statements

None.

2.8 Other hazards

There are no other hazards not otherwise classified that have been identified.




3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization

Mixtures

3.2 Components

10049-04-4	Chlorine dioxide	<0.1%
	 Acute Tox. 3, H301	
	 Skin Corr. 1B, H314; Eye Dam. 1, H318	

3.3 Additional information

For the wording of the listed Hazard Statements, refer to section 16.

4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

After inhalation	Supply fresh air; consult doctor in case of complaints
After skin contact	Immediately rinse with water. Remove any clothing soiled by the product. If skin irritation is experienced, consult a doctor.
After eye contact	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing	Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.
Most important symptoms and effects, both acute and delayed	No relevant information available.
Indication of any immediate medical attention and special treatment needed	If medical advice is needed, have product container or label at hand.



5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents

The product is not flammable.
Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents

No relevant information available.

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.2 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.
Wear fully protective suit.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment as required.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.
For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.
Dispose of the collected material according to regulations.

6.3 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.



7. HANDLING AND STORAGE

7.1 Handling

7.2 Precautions for safe handling

Open and handle receptacle with care.
Keep out of reach of children.
Avoid contact with the eyes and skin.

7.3 Conditions for safe storage, including any incompatibilities

7.4 Requirements to be met by storerooms and receptacles

Store in cool, dry conditions in well sealed receptacles.
Do not allow product to freeze.
Avoid storage near extreme heat.
Store only in the original receptacle.

7.5 Information about storage in one common storage facility

Store away from foodstuffs.
Do not store together with acids.
Do not store together with alkalis (caustic solutions).
Store away from flammable substances.

7.6 Further information about storage conditions

Protect from exposure to the light.

7.7 Specific end use(s)

No relevant information available.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with limit values that require monitoring at the workplace

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.

Engineering controls

No relevant information available.

Breathing equipment

Use suitable respiratory protective device when aerosol or mist is formed.

Protection of hands



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



Safety glasses

Eye protection

Follow relevant national guidelines concerning the use of protective eyewear

Body protection

Protection may be required for spills.

8.3 Limitation and supervision of exposure into the environment

Avoid release to the environment.

8.4 Risk management measures

No special requirements.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	
Form	Liquid.
Color	Yellow
Odor	Characteristic
Odor threshold	Not determined.
pH-value	2.1
Melting point/Melting range	Not determined.
Boiling point/Boiling range	100 °C (212 °F)
Flash point	Not applicable.
Flammability (solid, gaseous)	Not applicable.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Danger of explosion	Product does not present an explosion hazard.
Explosion limits	
Lower	Not determined.
Upper	Not determined.
Oxidizing properties	Non-oxidizing.
Vapor pressure at 20 °C (68 °F)	23 hPa (17.3 mm Hg)
Density	
Relative density	1.0
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water	Fully miscible.
Partition coefficient (n-octanol/water)	Not determined.
Viscosity	
Dynamic	Not determined.
Kinematic	Not determined.
Other information	No relevant information available.



10. STABILITY AND REACTIVITY

Reactivity	No relevant information available
Chemical stability	Stable under normal temperatures and pressures.
Thermal decomposition /conditions to be avoided	No decomposition if used and stored according to specifications.
Possibility of hazardous reactions	Toxic fumes may be released if heated above the decomposition point. Reacts with strong acids.
Conditions to avoid	Avoid acids. Protect from sunlight.
Incompatible materials	Acids. Alkalis. Flammable materials.
Hazardous decomposition products	Chlorine compounds

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
LD/LC50 values that are relevant for classification	None.
Primary irritant effect On the skin On the eye	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Sensitization	Based on available data, the classification criteria are not met.

11.2 Carcinogenic categories

IARC (International Agency for Research on Cancer)	None of the ingredients are listed.
NTP (National Toxicology Program)	None of the ingredients are listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed.



Probable route(s) of exposure	Ingestion. Inhalation. Eye contact. Skin contact
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

12.1 Toxicity

12. ECOLOGICAL INFORMATION

Aquatic toxicity	No relevant information available.
Persistence and degradability	No relevant information available.
Bioaccumulative potential	No relevant information available.
Mobility in soil	No relevant information available.
Other adverse effects	No relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation	The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
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13.2 Uncleaned packagings

Recommendation	Disposal must be made according to official regulations.
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14. TRANSPORT INFORMATION

UN-Number DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
UN proper shipping name DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
Transport hazard class(es) DOT, ADR/RID/ADN, IMDG, IATA Class	Not regulated.
Packing group DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
Environmental hazards Marine pollutant	No.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)

SARA

Section 302 (extremely hazardous substances)	None of the ingredients are listed.
Section 313 (Specific toxic chemical listings)	None of the ingredients are listed.
TSCA (Toxic Substances Control Act)	All ingredients are listed or exempt.



15.1 Proposition 65 (California)

Chemicals known to cause cancer

None of the ingredients are listed.

Chemicals known to cause developmental toxicity for females

None of the ingredients are listed.

Chemicals known to cause developmental toxicity for males

None of the ingredients are listed.

Chemicals known to cause developmental toxicity

None of the ingredients are listed.

EPA (Environmental Protection Agency)

None of the ingredients are listed.

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Harmful if swallowed, absorbed through the skin, or inhaled. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, smoking, or using the toilet.

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.



16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

Date of preparation / last revision

May 01, 2020 / -

Abbreviations and acronyms

ADR

European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG

International Maritime Code for Dangerous Goods

DOT

US Department of Transportation

IATA

International Air Transport Association

CAS

Chemical Abstracts Service (division of the American Chemical Society)

LC50

Lethal concentration, 50 percent

LD50

Lethal dose, 50 percent

OSHA

Occupational Safety & Health Administration

TLV

Threshold Limit Value

PEL

Permissible Exposure Limit

REL

Recommended Exposure Limit

Acute Tox. 3

Acute toxicity – Category 3

Skin Corr. 1B

Skin corrosion/irritation – Category 1B

Eye Dam. 1:

Serious eye damage/eye irritation – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed.
ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

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THE
PHARMA-ROOM
SURFACE WASH



THE PHARMA ROOM: SURFACE WASH TECHNICAL DATA SHEET



THE PHARMA ROOM: **SURFACE WASH**

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

Terminal sanitizing of surfaces such as tanks, transfer lines, hard non-porous food contact surfaces, food and beverage processing equipment conforming to 40 cfr 180.940(b) and (c).

- Remove food particles and soil by using a pre-flush, pre-scrape, or pre-soak treatment.
- Clean tanks, lines, or surfaces thoroughly using suitable detergent; rinse with clean potable water.
- Wear appropriate personal protection equipment.
- Prepare a 50 to 250 PPM chlorine dioxide working solution.
- Fill, flush, immerse, circulate, or spray tanks, lines, processing equipment, or food-contact surfaces with the solution, making sure that surfaces remain thoroughly wet for at least one minute.
- After sanitizing, drain tank, line or equipment and allow to air dry.

Odor, slime and microbial control of food-processing water systems: flume transport, chill water and water cooling/warming systems.

- Make sure that materials in system components such as water pumps and nozzles are compatible.
- Clean and rinse system with potable water.
- Wear appropriate personal protection equipment.
- Prepare a sufficient volume of 5 PPM chlorine dioxide working solution.
- Fill system with solution and circulate. For better results let stand overnight.
- Drain and rinse with potable water before use.

Odor, slime and microbial control of membrane systems: systems and food and beverage processing.

- Make sure that materials in system components are compatible.
- Rinse system with potable water.
- Wear appropriate personal protection equipment.
- Prepare sufficient volume of chlorine dioxide solution suitably diluted for specific application..
- Fill system with solution and circulate. For better results let stand overnight.
- Drain and rinse with potable water before use.

Sanitization rinse of food contact surfaces, storage and utensils.

- Remove gross particles and soil using suitable detergent, followed by potable water rinse.
- Wear appropriate personal protection equipment.
- Prepare a working solution at 100 to 250 PPM chlorine dioxide.
- Flush (minimum- 1 min.), spray or wipe baskets, bins, utensils or food contact surfaces with solution.
- Allow to air dry.
- Do not reuse solution.

Sanitization of processing equipment and non-food contact surfaces in dairies, breweries, wineries and bottling plants.

- Remove gross particles and soil using suitable detergent, followed by potable water rinse.
- Wear appropriate personal protection equipment.
- Prepare up to 500 PPM chlorine dioxide working solution.
- Fill and circulate, immerse, spray or wipe equipment according to requirements of target application.
- Special attention must be paid to hard to reach areas such as pipes and closed vessels to ensure contact with the solution.
- Make sure all surfaces remain thoroughly wet for at least 15 - 30 seconds.
- Drain and air-dry treated equipment.
- Do not rinse.
- Do not reuse solution.

Terminal food-contact surfaces sanitizer rinse in poultry, meat and fish processing plants, dairies, breweries and bottling plants conforming to 21 cfr 178.1010(b)(34) and (c)(39).

- Remove gross particles and soil using suitable detergent, followed by potable water rinse.
- Wear appropriate personal protection equipment.
- Prepare up to 250 PPM chlorine dioxide working solution.
- Spray or wipe solution on equipment and surfaces.
- Special attention must be paid to hard-to-reach areas such as pipes and closed vessels to ensure contact with the solution.
- Make sure all surfaces remain thoroughly wet for at least 15 - 30 seconds.
- Air-dry treated surfaces.
- Do not rinse.
- Do not reuse solution.

New bottle and container sanitizing spray rinse CIP equipment.

- Wear appropriate personal protection equipment.
- Prepare up to 250 PPM chlorine dioxide working solution.
- Ensure adequate ventilation suitable for misting operations.
- Connect working solution appropriately into CIP equipment setup.
- Configure spray parameters for minimum solution spray time of 15 seconds.
- Ensure rotation of containers or bottles to drain excess solution.
- Air-dry treated surfaces.
- Do not rinse.
- Do not reuse solution.

Disinfection / sanitization of non-porous, hard surfaces such as walls, ceilings, tiles, floors, windows and tables.

- Remove gross particles and soil using suitable detergent, followed by potable water rinse.
- Wear appropriate personal protection equipment.
- Prepare a working solution up to 250 PPM chlorine dioxide.
- Apply using a suitable and clean sprayer, sponge, or mop, making sure that surfaces remain thoroughly wet for at least 30 - 60 seconds.
- Wipe dry, or allow to air dry.
- Do not reuse solution.

Treatment of potable water for human consumption.

- Conforming to EPA regulation 40 CFR 141.65(a), maximum allowed level for residual chlorine dioxide in drinking water is 0.8 PPM.
- Conforming to EPA regulation 40 CFR 141.64(a), maximum allowed level for chlorite ion (main chlorine dioxide by-product) in drinking water is 1.0 PPM.
- Wear appropriate personal protection equipment.
- Add this product to drinking water intended for human consumption at a rate of 2.0 PPM chlorine dioxide per gallon according to the dilution chart provided.
- Stir gently and wait 10 minutes before drinking.
- The use of a residual disinfectant test-kit is highly recommended to ensure regulatory compliance.

Sanitization and deodorization of healthcare, nursing and morgue facilities.

- Rooms must be thoroughly cleaned prior to treatment.
- Wear appropriate personal protection equipment.
- Prepare a working solution of 50 to 500 PPM chlorine dioxide.
- Lightly dampen walls, windows, ceilings, floors and other hard surfaces using a suitable sprayer device, sponge, or mop to apply solution.
- Allow to air dry and ventilate area before its reuse.

Control and prevention of algae, fungi, bacteria, slime, mildew and biofilm contamination in agricultural and horticultural storage areas, work areas, tools, benches and walkways.

- Remove gross particles and soil using suitable detergent, followed by potable water rinse.
- Wear appropriate personal protection equipment to manipulate and apply solution.
- Prepare a 50 to 250 PPM chlorine dioxide working solution.
- Apply using a clean sprayer device, sponge, or mop, making sure that surfaces remain wet for at least 10 minutes.
- Immerse tools in sanitizing solution making sure they remain wet for at least 10 minutes.
- Do not reuse solution.

Treatment of water for animal consumption.

- Wear appropriate personal protection equipment.
- Add this product to animal drinking water at a rate of 3 to 5 PPM chlorine dioxide per gallon.
- Stir gently and wait 10 minutes before offering treated water to animals.

Sanitization of animal confinement, rearing and holding facilities.

- Remove all animals and feed from facilities.
- Remove gross particles, manure, debris and any other organic residues.
- Empty all feeding and watering appliances.
- Thoroughly clean walls, floors, ceilings, chutes, troughs, racks, enclosures, surfaces and fixtures using suitable detergent, followed by water rinse.
- Wear appropriate personal protection equipment.
- Prepare a working solution up to 500 PPM chlorine dioxide.
- Apply solution using a suitable sprayer device, making sure that surfaces remain thoroughly wet for at least 10 minutes.
- Immerse-treat restraining and handling equipment, as well as cleaning tools, making sure they remain wet for at least 10 minutes.
- Allow to air-dry and ventilate area before reintroducing animals.

Sanitization of animal transport conveyances, rail cars, trailers and vessels.

- Clean conveyances with high-pressure wash and suitable detergent.
- Wear appropriate personal protection equipment.
- Prepare a working solution of 250 to 500 PPM chlorine dioxide.
- Apply solution using a suitable sprayer device or wipe onto surfaces with clean cloth, making sure that surfaces remain thoroughly wet for at least 10 minutes.
- Allow to air-dry.

Control of odor and slime build-up in animal confinement facilities*

- Remove animals and feed from facilities.
- Remove gross particles, manure, debris and any other organic residues.
- Thoroughly clean surfaces using suitable detergent, followed by water rinse.
- Wear appropriate personal protection equipment.
- Prepare a working solution at 500 PPM chlorine dioxide.
- Apply using a clean sprayer device, sponge, or mop, making sure that surfaces remain wet for at least 30 seconds.
- Allow to air-dry and ventilate area before reintroducing animals.

Treatment of indoor swimming pools, hot tubs and spas.

- Restrict use of pool, hot tub or spa during treatment.
- Wear appropriate personal protection equipment.
- Add product to pool water at a rate of 1 - 5 PPM chlorine dioxide per gallon.
- For best results, apply and let stand overnight.
- In morning, circulate water to flush lines and pipes, remove biofilm debris from water.
- Adjust pool water pH within 7.2 – 7.6 range.
- Treat as required.

Slime and algae control in ornamental pools and spray fountains.

- Do not use this product if fish, or other aquatic species are kept in pool.
- Wear appropriate personal protection equipment.
- Add this product to pool water at a rate of 10 PPM chlorine dioxide per gallon.
- Circulate water.
- For better results apply and let stand overnight.
- Drain pool and refill with clean water.
- To prevent slime build-up, add product at a rate of 5 PPM chlorine dioxide per gallon.
- Treat as required.

Sanitization of water tanks of recreational vehicles, boats and aircraft.

- Drain tank and remove sediments.
- Scrub tank using a suitable detergent and thoroughly flush with potable water.
- Wear appropriate personal protection equipment.
- Prepare a 500 PPM chlorine dioxide working solution.
- Fill tank with the sanitizing solution and bleed air out of lines.
- Allow solution to remain in tank for at least 10 minutes.
- Drain and thoroughly flush with potable water.
- Refill tank with potable water.
- Do not reuse solution residue.
- Discard effluent in accordance to current federal and local regulations.
- Treat as required.

Treatment of potable water in tanks of recreational vehicles, boats and aircraft.

- Conforming to EPA regulations 40 CFR 141.65(a), maximum allowed level for residual chlorine dioxide in drinking water is 0.8 PPM
- Conforming to EPA regulations 40 CFR 141.64(a), maximum allowed level for chlorite ion (a chlorine dioxide by-product) in drinking water is 1.0 PPM
- Wear appropriate personal protection equipment.
- Add this product to drinking water tanks at a rate of 2.0 PPM chlorine dioxide per gallon.
- Stir gently and wait 10 minutes before drinking.

Sanitizing of horticultural drip irrigation and spray bar emitters*

- Wear appropriate personal protection equipment.
- Prepare a 500 PPM chlorine dioxide working solution.
- Fill and circulate through system linked to water flow. Volume will vary according to size of system.
- Do not rinse.
- Do not reuse solution.

Industrial fogging applications*

Handheld foggers are recommended over stationary foggers to reach more surfaces, while changing the angle of applications in order to minimize missing surface contact in crevices shadow areas.

- Wear appropriate personal protection equipment including protective clothing, gloves, face shield and goggles, and NIOSH/MSHA approved respirator.
- Prepare a 400 TO 500 PPM* chlorine dioxide working solution.
- Let dwell wet on surface for at least 15 seconds.
- Do not rinse. Let air dry.
- Close doors and windows to room or vehicle. Prohibit entry of unauthorized personnel and persons not wearing appropriate PPE into treatment area during fogging. Prevent re-entry for one hour. Open doors and windows to ventilate area prior to re-entry.

DILUTION CHART FOR THE PHARMA ROOM: SURFACE WASH (500 PPM) TO MAKE 2 GALLONS OF DILUTED PRODUCT

CONCENTRATION	STRENGTH	ADD THIS MUCH WATER	TO THIS MUCH SURFACE WASH
10 PPM	2%	251 oz	5 oz
50 PPM	10%	230 oz	26 oz
100 PPM	20%	205 oz	51 oz
200 PPM	40%	153 oz	102 oz
250 PPM	50%	128 oz	128 oz
300 PPM	60%	102 oz	153 oz
500 PPM	100%	Full Concentration - Do not dilute	

1 (877) 693-9224

CONTACT US AND REQUEST MORE INFORMATION ON OUR SURFACE WASH

Contact Info: visit www.weatherskin.com/contact today to request more information or to find your closest licensee / product supplier.



THE
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SURFACE WASH

