



Chlorine Dioxide (ClO_2) Disintox[®] Tablets

*Empowering every
healthcare space
with the most necessary*

S.H.I.E.L.D.

Science-driven Hygiene Innovations for
Effective and Long-lasting Disinfection



Molecule Approved By :



OUR INSPIRATION

In the dynamic landscape of modern healthcare, maintaining a sterile & pathogen-free environment within facilities has become an imperative.

This commitment has transcended to a realm of utmost significance, ensuring the preservation of patient as well as general well-being.

The relentless evolution and emergence of novel, resilient pathogens have inspired the critical necessity for an efficacious infection control solution.

That's where our Chlorine Dioxide Disintox[®] Tablets come in.

These are ground-breaking solutions that leverage the formidable power of Chlorine Dioxide to entirely revolutionize how hospitals sanitize surfaces & spaces. It's a revolutionary practice for keeping hospitals safe and clean!

In the world of healthcare, Hospital Acquired Infections (HAIs) loom as a formidable challenge, keeping healthcare professionals on their toes.

Ensuring facilities remain free from harmful Germs, Bacteria, Viruses & other insidious pathogens becomes their top priority.

Chlorine Dioxide emerges as the unrivalled champion in this quest, offering a non-toxic alternative that guarantees a safer and cleaner environment.

At DISINFECT (ClO₂)

We take pride in pioneering the forefront of scientific innovation.

Our expertise lies in harnessing the inherent capabilities of

Chlorine Dioxide Disintox[®]. This approach unravels a transformative product, standing as a testament to uncompromising excellence in performance. Safeguarding not only patients but also our dedicated healthcare professionals.

Our solution not only guarantees unparalleled efficacy but also forms a comprehensive SHIELD. As we embark on this odyssey, we extend an invitation to contribute to the journey to create a healthier & safer future for healthcare facilities worldwide.

Thus, creating a positive impact on a global scale by using this SHIELD.

CERTIFICATION & ACCREDITATION





ClO_2 is a most versatile molecule effective in Liquid, Solid & Gaseous State.

A broad spectrum microbial disinfectant effective on Virus, Bacteria, Fungus, Mold & Pathogens.



ClO_2 is known for its fast-acting properties & its eco-friendly nature.



MCGM



Food Safety & Standards
Authority of India



Identify
What Makes



a robust solution in the world of Disinfection.





SUPERIOR DISINFECTION EFFICACY :

Unlike traditional disinfectants, ClO₂ has a unique mode of action, targeting pathogens by disrupting their cell walls and enzymatic processes. This results in the effective elimination of bacteria, viruses, fungi, spores & antibiotic-resistant strains. Also ensuring an odour-free environment is an essential aspect of our commitment.



SAFE FOR HOSPITAL USE & HUMAN FRIENDLY :

In a healthcare environment, the necessity of prioritizing safety is paramount. In contrast to chlorine-based disinfectants, our tablets meticulously dispense ClO₂ with precision & stability. This approach establishes a secure operational environment, fostering the well-being of both medical personnel and patients.



NON-CORROSIVE & NON CARCINOGENIC :

Set your worries about potential harm to hospital surfaces and equipment aside. Our Chlorine Dioxide Disintox[®] Tablets are carefully designed to exhibit non-corrosive and non-carcinogenic attributes. Our precise formulation ensures their compatibility with an array of surfaces, encompassing medical equipment, counter tops, floors, walls, and even hard-to-reach areas including electric appliances through its gaseous mode of action as per prescribed dosage. All this while adhering to stringent scientific standards.



ODOR CONTROL :

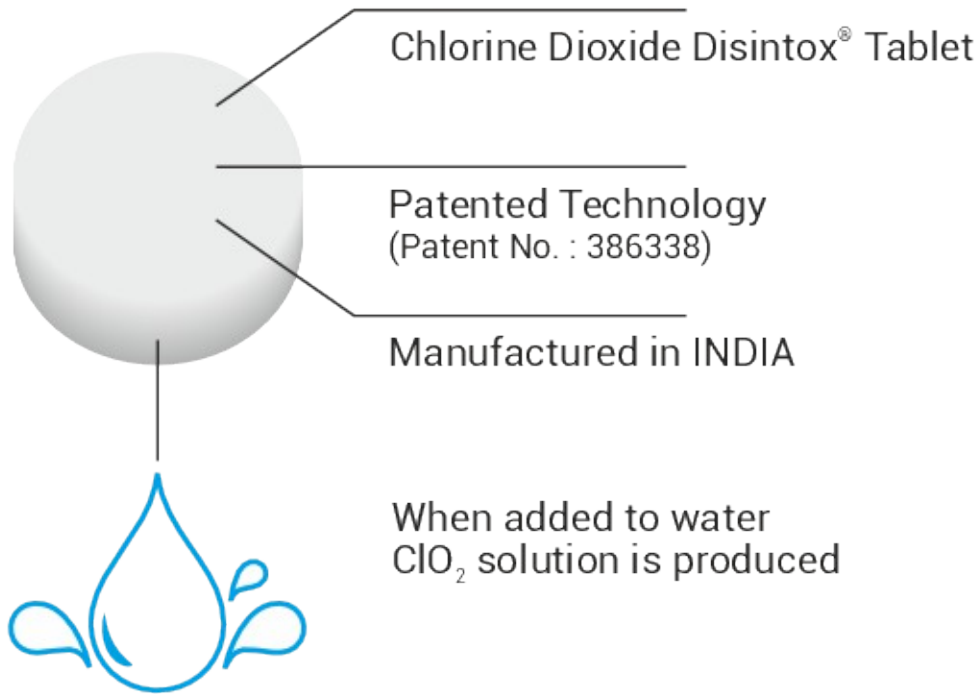
Chlorine Dioxide Disintox[®] is one of the strongest and safest odor removal chemicals in the market today. It releases a deep penetrating vapor when in contact with water that fills the interior of any confined space, destroying odor molecules from the inside out. It's highly effective due to its ability to access the hard-to-reach places such as crawl spaces, surgical & OT equipment's, medical disposed wastes and hidden outlets to destroy unseen odor-causing elements in a quick turn-around time. It does not merely cover up odors but travels through surfaces without leaving any pathogens in the treated areas.



CONVENIENT & PORTABLE :

Experience the unparalleled convenience and portability of our tablets. They empower you to maintain top-notch infection control standards across your entire facility, from patient rooms to meticulously maintained operating theatres. This strategic adaptability aligns with scientifically grounded methodologies, ensuring comprehensive pathogen defence.

Know the Guidelines of



DOSAGE & DILUTION :

Precise dosage and dilution of Chlorine Dioxide Disintox[®] Tablets are crucial for achieving optimal results. Follow product instructions to determine tablet quantity based on area size and desired disinfection efficacy.



APPLICATION METHODS :

Our tablets adapt seamlessly to highest standard cleaning methods-wiping, mopping, spraying, fogging, air decontamination, hand sanitizer & odour control. Thoroughly cover all surfaces, allowing the disinfectant solution to interact with pathogens for the specified contact duration.



CONTACT TIME & VENTILATION :



The prescribed contact time maximizes disinfection efficiency. Post-application, ensure ample ventilation to safely disperse any residual Chlorine Dioxide in the treated area.

PROPER DISPOSAL :



Environment safeguarding necessitates responsible waste disposal. Adhere to hospital protocols for hazardous waste disposal when discarding unused or expired solutions. Properly recycle packaging materials as well.

Safety Precautions and Handling Instructions for



COMMERCIAL USES OF 20 GM TABLET :

AIR FUMIGATION (room size 400 sq. ft.)

Indoor Fumigation and Air Decontamination

Steps to Follow (Useable for Fogging Process also) :

- 1 Take a Plastic/Glass Bowl and add 500ml water
- 2 Add a 20g Tablet in the bowl
- 3 Leave the room vacant & air tight for atleast 3-4 hours.
Note : all air-con systems to be turned off.
- 4 Post that Ventilate the room for 10-15 minutes by opening window and switching on Fans & Air Conditioner
- 5 Now the Room is disinfected and ready to use

Note :

Balance 500ml solution in bowl, can further diluted to 1:10 proportion, make 5 ltr solution can be used on the same day for surface disinfection.



SURFACE DISINFECTION :

Preparing Disintox[®] ClO₂ tablets solution



Take 10-20 ltrs of water in a container



Add 20gm tablet to the water and cover the container



Wait for 2-5 minutes until it dissolves completely



Stir gently and the solution is ready to use



The ready solution can be used as an all purpose disinfectant & can be stored air-tight upto 7 days.

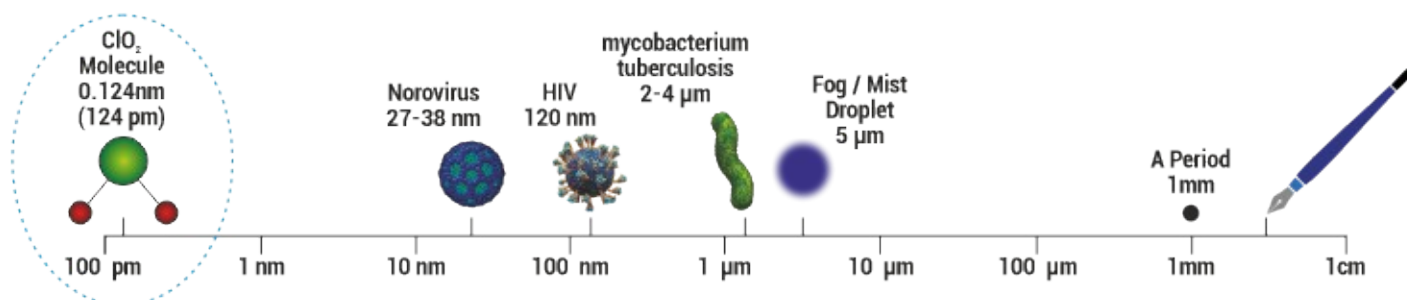
Various Uses and Effectiveness of



SAFE SURFACE DISINFECTION, AIR FUMIGATION & DECONTAMINATION WITH DISINTOX[®] CHLORINE DIOXIDE (ClO₂) TABLET

Chemical Composition

Chlorine Dioxide (ClO₂) is a chemical compound made up of one atom of chlorine and two atoms of oxygen. Do not confuse ClO₂ with typical household chlorine bleach. It is an antimicrobial pesticide. ClO₂ is actually an oxidizing agent, not a chlorinating agent. Unlike alternative chemicals, ClO₂ reacts with organic matter through selective oxidation rather than substitution and it is non-carcinogenic.



VARIOUS USES OF DISINTOX[®] ClO₂ TABLETS :

→ STERILIZER :

- To eliminate or destroy : fungi, fungal spores, viruses, vegetative bacteria, bacterial spores.
- To reduce microorganisms from the intimate environment to safe levels.

→ DISINFECTANT :

- Used on surfaces and objects to destroy or irreversibly inactivate infectious fungi and bacteria.

→ ODOUR REPELLANT :

- Eliminates bad odour instantly



→ SPORICIDE :

- To inactivate bacterial spores

→ GERMICIDE :

- To kill a number of micro-organisms (e.g. viruses, fungi, bacteria)

WHAT DOES DISINTOX[®] ClO₂ TABLET KILL?

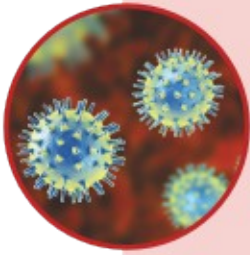
Chlorine Dioxide (ClO₂) is a U.S.EPA approved sanitizer, disinfectant, deodorizer, tuberculocide, algacide, fungicide and U.S.FDA recognized.

It is known to be effective on these tested organisms :



➔ **BACTERIA :**

- Blakeslea tripora
- E. coli 0157:H7
- Erwinia carotovora
- Fusarium sambucinum
- Legionella
- Listeria monocytogenes
- Salmonella enterica
- Shigella
- Staphylococcus aureus
- Many others



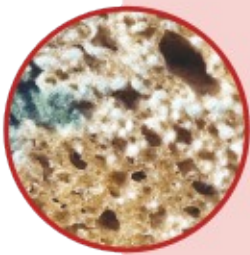
➔ **VIRUSES :**

- COVID-19 (SARS-CoV-2)
- Influenza- A virus
- Mouse Hepatitis Virus
- Poliovirus-1
- Rotavirus
- Rhinovirus
- Influenza A virus (formerly called swine flu)
- Foot and Mouth disease
- Many others



➔ **BACTERIAL SPORES :**

- Bacillus anthracis
- Bacillus pumilus
- Bacillus subtilis (multiple)
- Clostridium sporogenes
- Many others



➔ **ALGAE / FUNGI / MOLD / YEAST :**

- Aspergillus clavatus
- Aspergillus (multiple)
- Candida (multiple)
- Fusarium solani
- Many others

Application Areas & Advantages of Using



APPLICATION AREAS

Our Chlorine Dioxide Disintox[®] Tablets exhibit adaptability across diverse hospital settings, encompassing complete safety and a healthy environment.



WARDS & PATIENT ROOMS :

Establishing a hygienic haven for health and recovery.

INTENSIVE CARE UNITS (ICUS) :
Fostering pathogen-free sanctuary for critical patients.



OPERATING THEATRES :

Orchestrating surgical suites' microbial defence.

EMERGENCY ROOMS :
Our Chlorine Dioxide Disintox[®] tablet exhibit adaptability across diverse hospital settings including Emergency room & Trauma care.



FLOORS, LOUNGES & ALL HOSPITAL AREAS :

Elevating patient reassurance through sterile environments.

LABORATORIES :
Preserving pristine sterility in vital research zones.



ADVANTAGES



VERSATILITY :

Our tablet inhibits comprehensive disinfection coverage across high-touch surfaces, crawling spaces & critical equipments.



COST-EFFECTIVENESS :

Optimized dosage, no machinery or electricity and non-corrosive attributes curtail material waste and enhance equipment longevity, translating to substantial cost efficiencies.



ENVIRONMENTAL COMPATIBILITY :

By generating Chlorine Dioxide sans hazardous chemicals or excessive storage spaces, our tablets establish an eco-friendly stance surpassing many conventional disinfectants.



Concentration in PPM	
Agent	Concentration
Active Chlorine Dioxide	100
Chlorine Compound 1 Sodium Hypochlorite	1,000
Chlorine Compound 2 Calcium Hypochlorite	820
Iodophors	440
Peroxide	68,000
Glutaraldehyde-Phenol	1,200
Acid Glutaraldehyde	2,200
Acidified Quat	1,200
Phenolic	380
Paracetic Acid	400

ClO ₂ Particle Size vs Others	
HEPA filtration removes 99.99% of particles of 0.3 microns or larger	
Particle/Molecule	Size in microns
ClO ₂	>0.000124
Bacteria	0.3-60
Smoke From Synthetic Materials	1-50
Smoke From Natural Materials	0.01-0.1
Pesticides & Herbicides	0.001
Plant Spores	3-100
Mold	3-12
Mist	70-350
Oxygen	0.0005

Chlorine Dioxide Properties	
Chemical Signature	ClO ₂
Molar Mass	67.45 g/mol
Appearance	Yellowish-Green to Reddish Gas
Odor	Acrid
Density	1.64 g/cm3
Melting Point	-74°F (-59°C)
Boiling Point	49.46°F (9.7°C)
Solubility	soluble in alkaline and sulfuric acid solutions
Solubility in water	8 g/L (at 20°C)
Vapor pressure	>1 atm
Henry's Law (KH)	4.01 x 10 ⁻² atm-cu m/mole

CHLORINE DIOXIDE AS A SELECTIVE OXIDIZER					
Oxidation capacity illustrates strength to attract electrons; ClO2's higher oxidation capacity produces greater efficacies while using less concentration					
Oxidizing Agent	Ozone (O ₃)	Hydrogen Peroxide (H ₂ O ₂)	Sodium Hypochlorite (NaClO)	Paracetic Acid (C ₂ H ₄ O ₃)	Chlorine Dioxide (ClO ₂)
Oxidizing Potential (Volts)	2.07	1.78	1.49	1.81	0.95
Oxidation Potential	2e-	2e-	2e-	2e-	5e-
PPMs Required	N/A	30,000	5,000	100-2,250	100
<div> <div>Most</div> <div>Corroslveness</div> <div>Least</div> </div>					

Gates, D. (1966), The Chlorine Dioxide Handbook Denver, CO. American Water Works Association

Elevated Infection Control along with
enhanced experience achieved by
using



Don't simply rely on our assertion!
Immerse yourself in the triumphs & narratives
of hospitals that have seamlessly integrated
Chlorine Dioxide Disintox[®] Tablets
into their infection control strategies.
Across diverse healthcare landscapes,
our tablets have consistently showcased their prowess,
culminating in lowered infection rates and
elevated patient outcomes.
Step into a realm of undeniable
success stories!



ALL PURPOSE DISINFECTANT

1 Tablet (10gm)



Width 70mm x Height 90mm

2 Tablets (10gm x 2)



Width 120mm x Height 160mm

250 Pouches (5000gm)



Width 344mm x Height 402mm

25 Pouches (500gm)



Width 300mm x Height 300mm

MANUFACTURED BY :



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Maharashtra, India

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Medical Device Application No. : MH/M/MD/017723

MARKETED BY :



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Drug Licence No. :

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