

THE MOST EFFECTIVE VIRUS DISINFECTANT



VIROL-OXY

The major branch of Prosep Chemicals® is **Virus** classification. **Viruses** can be classified accordingly to the host cell they infect.

- Human Viruses
- Animal Viruses
- Bacteriophages
- Fungal Viruses
- Plant Viruses

Another classification uses the geometrical shape of their Capsid, Helix or Icosahedron. A Capsid is the pretrain shell of Virus. It consists of several oligomeric structural subunits, which are made of protein called protomers. Proteins are large biomolecules or macromolecules, consisting of one or more chains of Amino Acid residuals. Proteins are essential to life. Cells produce new protein molecules from amino acid building blocks based on information coded in DNA. Each type of protein is a specialist that usually only performs one function, so if a cell needs to do something new, it must take a new protein. Viruses force the cell to make new proteins that the cell does not required but are needed for the virus to reproduce.

A virus is simply classified as Genome tucked inside a protein coat, too streamlined for biologist to even consider it to alive. A dangerous genome is RNA within a Protein covering of telltale spikes, the CORONA (crown). Already knowing the genome sequences of the related SARS and MERS viruses sped sequencing the new one.

"CORONAVIRUS"

Recommendations: Coronaviruses are large, enveloped RNA viruses that causes respiratory and enteric diseases first in animals and then in

Applications

Hospitals	Airports
Public Places	Personal Hygiene
Animal Transport	Animal Health
Food Processing	Aquaculture
Horticulture	Water Delivery Systems
Equipment & Surfaces	

The Greatest Disinfectant for Million Reasons..!

humans. Coronavirus in humans causes Respiratory infections even during the incubation period. The virus has estimated basic reproduction number between 3-5, meaning it typically infects 3-5 people per established infection. Prosep Chemicals recommends reducing the risk of transmission of emerging pathogens from animals to humans and humans to humans, using Virol-Oxy® as General Hygiene Measures, including regular handwashing and water disinfected with Virol-Oxy®. Avoid physical contact with contaminated surface. Raw meat, vegetables, fruits should be washed with 0.5% Virol-Oxy® treated water. All equipment, working places at home and office should be disinfected frequently, at-least once a day with Virol-Oxy® solution. Protective clothing should be removed after usage and washed daily after Pre-Soaking in Virol-Oxy® Solution.

A VIRUS ISN'T ALIVE

Life?

A

Prosep Chemicals doesn't consider a Virus to be alive because of what it can't do: "it doesn't metabolize, doesn't respond to stimuli, and can't reproduce Unaided". A virus requires a live host to make more of itself, which it can do quite effectively before our Immune systems even realize it's there.

B

A viral (Virol) genome may be quite small. Genetic instructions enable a virus to package itself neatly into a protein coat using very few Genes, like building an elaborate greenhouse from assembling identical panes of glass.

C

An Example of Ebola virus has just seven genes, yet it rapidly reduces a Trillion-celled- Human body to a puddle of blood.

D

The ability of viruses (any kind) to reproduce rapidly and their inability to repair RNA or DNA replication errors make them highly changeable and therefore adaptable. They can stay ahead of Host defense in an evolutionary arms race of sorts.

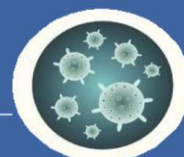
E

Prosep Chemicals dissect viruses down to their nucleic acid sequence essence. We don't kill bacteria – We oxidize bacteria, we oxidize viruses with VIROL-OXY®. Viruses lay far beneath the radar. We know people who seek antibiotics to treat viral infections may not realize the strong difference between.



**Bacteria are Cells
and Alive**

**Viruses are Active
and not Alive**



**“A virus straddles the
boundary between the
Chemical and the Biological,
a structure that is more than
an assembly of
“MACROMOLECULES”, yet
less than a cell”**

PRODUCT INFORMATION

VIROL-OXY General Descriptions

SAFE

Viol-Oxy® is the safest deactivated powder. It is very easy to use and has a wide usability based spectrum of activity, which can be used in a very large number of applications and is environmentally friendly.

HIGH EFFICACY

Viol-Oxy® has proven high efficacy against bacteria and viruses, spores and fungi in a very large number of applications. Viol-Oxy® presents no serious or long-term health risk to staff by obviating the need for costly ventilation equipment and health monitoring.

UNIQUE

Viol-Oxy® is the most unique powder product for the safe and rapid disinfection and deactivation of surfaces and contaminated places in a wide variety of emergency situations. ViolOxy® is dissolved in normal water for use, providing a safe working solution with a strong Pink color. Viol-Oxy® working solution is also very safe.

CHEMISTRY

Viol-Oxy® is a balanced and stabilized blend of powdered Hydrogen peroxide and Crystalline Titanium dioxide (Titansorb P) compounds, surfactant, organic buffer chemistry with exceptional safety profile.

MODE OF ACTION

By oxidation of Protein Coat and another infection organism of cell protoplasm, resulting in inhibition of enzyme systems and loss of cell integrity. The only method for deactivating viruses which consists of contacting the viruses located on the inanimate surface or on the skins of humans or non-human (animals) with a solution of Viol-oxy in a concentration of at least 0.5 to 1%. Prosep Chemicals does not contain any toxic containing chemicals (Aldehydes, Phenols, Alcohols, Iodophors, Formaldehyde) which is known to be a broad-spectrum disinfectant and does not fulfill the require for deactivation of viruses. Therefore Prosep Chemicals is the only product with the efficiency to act as:

- Virucide
- Bactericide
- Fungicide

PRODUCT INFORMATION

Package Format	Contents	Equivalent volume of 1% disinfectant (litres)
100g Tub	10 x 10g Sachets	10
6kg Box	600 x 10g Sachets	600
10kg Box	1000 x 10g Sachets	1000
1kg Tub	1 x Tub Powder	100
60kg Drum	60 kg Powder	6000
300Kg	5 x 60 kg Drum	30000
1000Kg	1 x 1000Kg Crate	100000

To Prepare Solution

To prepare a One percent (1%) solution, using the table below, prepare the relevant volume of lukewarm water. Add the appropriate amount of Virol-Oxy® and stir until the powder has dissolved, leaving a clear Red Solution.

Surface Area to be Disinfect		
Area (m2)	Volume of water	Mass of Prosep Chemicals
50 m2	15 liters	150 grams
500 m2	150 liters	1.5 kg
1000 m2	300 liters	3 kg

Virol-Oxy® 1% solutions are stable for up to 10 days. Good 100% (Log 5) disinfection should be prepared daily.

Use of Solution

- Virol-oxy solution is used to spray, swabbing, rubbing and immersing surfaces to disinfect.
- Spray surface with Virol-oxy prepared solution, leave for up to a minimum 10 minutes and wipe over with a paper towel.
- Immersing or soaking all home appliances like stainless steel utensils. Pre-soaking of laundry and bedding prior to normal washing.

- Wipe, swab or rub the surface with a wet cloth, for example, doors, windows, knobs, workbenches, garden benches, trolley, floors, baths and sinks, complete kitchen jars and tools, beds, bed sheets and entire laundry at home.

Virol-Oxy® is manufactured by Prosep Chemicals Germany according to DVV. Organization for combatting Viral Diseases

To Pre-soak Medical Devices

To pre-clean contaminated stainless utensils, instruments, brush them with 1% Prosep Chemicals solution, rinse thoroughly with disinfected water.

Please note: Cleaning is not disinfecting

Disposal

Prosep Chemicals solution can be easily disposed into any sewage.

Shelf Life

Store in cool, humidity-controlled conditions, shelf life is three years from the date of manufacture. Container must be tightly re-sealed to preserve stainless integrity of powder. One percent (1%) Solution.

- Non-irritant to eyes
- Non-irritant to skin
- Non-Toxic

Attention:

Not for human consumption. Keep away from children's reach.

Beware of fake products

Disclaimer: The information and recommendation in this publication are true and based on data we believe to be reliable. They are offered in good faith but do not imply any warranty, liability or performance guarantee. Specifications are subject to change without notice. SA water clean will not be liable under any circumstance for consequential or incidental damages, including but not limited to, lost profits resulting from the use of our products.

VIROL - OXY

HIGHLY EFFECTIVE MULTIPURPOSE DISINFECTANT

Description

Highly effective, rapid-acting, multipurpose disinfectant and sanitiser for use on surfaces, equipment, hands etc. based on an advanced titanium-based catalytic mechanism that generates sulphate and hydroxy free radicals with a superior oxidation potential. Virol-oxy also includes surfactant organic buffer chemistry.

European standards

EN 14476: Virol-oxy is tested compliant for virucidal activity against CORONAVIRUSES.

EN 13727: Virol-oxy is tested compliant for bactericidal activity against **staphylococcus Aureus, Enterococcus Hirae, Escherichia Coli K12, Pseudomonas Aeruginosa and Proteus Mirabilis.**

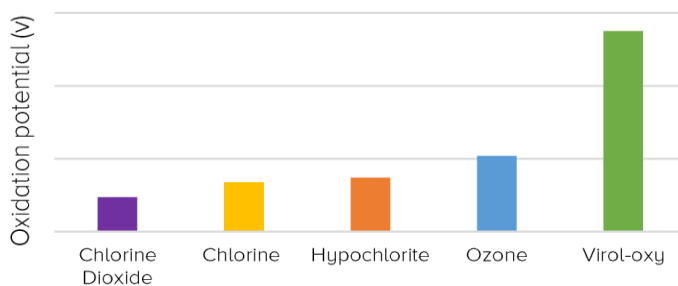
Virol-oxy 1% solutions are stable for up to 10 days.

Good 100% (log5) disinfection should be prepared daily.

Method of application

- Virol-oxy can be used to spray, swab, rub and/or immerse surface for disinfection.
- Spray the prepared solution of virol-oxy onto surfaces. leave for minimum of 20 minutes and wipe with a paper towel.
- Soak stainless steel utensils, pre-soaking of bedding and laundry before washing.

Oxidation Potential Comparison



Preparation of 1% solution

Using the table add the appropriate amount of Virol-oxy to the relevant volume of clean water. stir until the powder has dissolved, leaving a red solution. note that after initial preparation of the solution, the red colour will gradually fade away to leave a cloudy solution, indicating that the solution is still active. to ensure use of an active virucidal and bactericidal solution, discard as soon as the solution becomes completely clear or after 20 days, whichever comes first.

Preparation table:
(1% concentration solution)

Virol-oxy	Water
10 grams	1 litre
100 grams	10 litres
500 grams	50 litres
1000 grams	100 litres

Application

multipurpose disinfectant and sanitiser for surfaces, equipment, hands.

Active Ingredients

Hydrogen peroxide, titanium dioxide (crystalline powder), sulfamic acid, potassium pentasulfate, sodium chloride.

Safety & storage

Not for human consumption. keep out of reach of children & animals. Avoid contact with eyes, if contact occurs, wash well with water. if swallowed seek medical advice. in the rare event of skin reaction occurring stop use. avoid excessive inhalation. store in a cool place away from direct sunlight. refer to MSDS and the additional safety information at www.virol-oxy.com

Virol-Oxy Use in Disinfection Tunnels

Virol-Oxy can be used as 0.1% concentrated (up to 0.3%) solution for disinfection tunnels to disinfect people. It will give the best possible results at this concentration. As to our best knowledge this concentrated solution is totally harmless, but it is always recommended to keep eyes closed (protected), while standing in the tunnel for disinfection (this suggestion is for any chemical, not only for Virol-Oxy).

Package Sizes: 100g, 1kg, 6kg, 10kg, 60kg, 300kg, 1000kg



FEATURES & BENEFITS

Features	Benfits
Unique Product, First new approach to clean and disinfect in 100 years	Only approach designed for the particular Virus infection control problem of 2020's.
Supplied as a Hydrogen Peroxide powder with catalyst TiO ₂ (Titansorb-P). Highest Oxidation Potential chemistry.	Easy to use, safe for storage and less costs for transportation. Excellent efficiency for Disinfection of Viruses, Bacteria and Fungi.
Powder does not evolve chlorine . No Urine spills. No By products (DBP's) or THM's. "NO harmful vapor phase". Expensive ventilation is not required.	Replaces the unpleasant Hypochlorite. Using hypochlorite on a urine spill can result in so much toxic chlorine, being evolved that wards have to be cleared. No hypochlorite in Virol-Oxy®.
Developed by Prosep Chemicals®, Germany No. 1 in adsorption, Filtration and Disinfection company.	Draws on the expertise of a leading Advanced Oxidation Technology (AOP's) with the strongest history of Oxidation based products.
Worldwide branches for unique products.	Fast, Easy to use and store. Fast delivery.
Solution of Virol-Oxy® is non-irritant to skin and eyes.	Elaborate protective clothing not required.
When used properly, compatible with all materials. Works by physically destroying Bacteria, Viruses, and Fungi.	Maximum range of uses. Rapid protection of staff, ensures Bacteria, Viruses, and Fungi.
Virol-Oxy® can replace all existing disinfectants by fast acting. Works in minutes.	Combines cleaning and disinfection. Reduces cost for material and staff time.