CloxPur™ - Hard Surface Sanitiser for Healthcare Professionals

CloxPur™ - a powerful liquid sanitising solution that is bactericidal, viricidal, fungicidal and sporicidal.

CloxPur™ - is ideal for large scale, localised, hard surface and equipment disinfection.

The increasing incidence of transmission of infection due to poor hand and hard surface hygiene has led to a heightened awareness of the need for effective solutions regarding this type of sanitation in all medical/nursing environments.

This is of paramount importance in the identified 'high-risk' areas - infection control units, intensive care units and also for patients who are immuno-suppressed such as those who have undergone chemotherapy, transplant surgery or those infected with H.I.V. The need for an effective solution is not just driven from within the hospital environment, but also from community based medical facilities, the ambulance service and nursing care homes.

In response, Clearwater has introduced a range of products based on chlorine dioxide technology. These products, when used in accordance with manufacturers instructions, will eliminate the opportunity for transmission of infection.

Chlorine dioxide is proven technology; it selectively reacts with amino acids. These are the structural and enzymatic components of life. The reactions of chlorine dioxide with aromatic amino acids are responsible for the observed destruction of cellular structural components. Whilst the reactions with the sulphur containing amino acids are responsible for the rapid cell death of the micro-organisms.

The enzymes found within all cells mediate practically all biochemical reactions within a living cell. These include respiration, metabolism, cellular repair, active transport of materials in and out of the cells and protein synthesis. These enzymes are proteinaceous and are composed of many strands of polypeptides, which are chains of linked amino acids.

These chains of amino acids are held together in a rigid three-dimensional shape by disulphide bonds cross linking the chains together, where two sulphur containing amino acids from two different locations come into close contact. In order for enzymes to perform their function as catalysts for biochemical reactions, they must have a particular shape. When the disulphide bonds are broken (*oxidised by the chlorine dioxide*), the shape is altered and the enzyme loses its specificity, causing loss of that particular biological function. The simultaneous loss of respiration, metabolism, cellular repair, and cell component synthesis is rapidly fatal for the invading pathogen.

Clearwater Technology Limited is the leading British Chlorine Dioxide total solutions provider.

Previously regulated to very specific needs in water treatment, new technology is creating a unique opportunity for Chlorine Dioxide to be applied throughout a wide range of applications that call for the prevention of microbial growth such as slimes and moulds, together with total pathogen control against such organisms as Cryptosporidium, Pseudomonas, Legionella and many more.

Chlorine Dioxide has been called the "ideal" biocide for a number of reasons:

- It works against a wide variety of bacteria, yeasts, viruses, fungi, protozoa, spores, moulds, mildews and other microbes. It is especially effective in killing Giardia, Cryptosporidium and Legionella
- It exhibits rapid kill of target organisms, often in seconds.
- It is effective at very low concentrations and over a wide pH range.
- It is effective across a wide temperature range including water up to 80ºC
- It biodegrades in the environment.
- Unlike many other biocides, e.g. chlorine, it does not react with primary organics to form harmful trihalomethanes (THM's).
- It eradicates biofilm, and used as part of a preventative programme, eliminates recurrence within pipe work, equipment and systems.

CDPI005

M.R.S.A. - Cryptosporidium - SARS - E.coli - et.al

CloxPur™ - Hard Surface Sanitiser and Wipes

CloxPur™ - Available in 5% and 20% solutions

CloxPur5™ - is a ready solution packed in either 5 or 25 litre containers.

- For application by trigger spray as a manual fogging treatment
- Used to treat in-appropriate emissions of body fluids - vomit, blood, urine and faeces - on any hard surface.

CloxPur20™ - a powerful solution packed in either 5 or 25 litre containers

- Can be used through fogging systems to achieve complete sanitation over a wide area including air handling systems
- Ideal for use in all 'barrier nursing' environments
- Can be applied through Tri-jet fogging generator to deliver a large volume of atomised spray to achieve rapid sanitising of wards, public toilets, private rooms and service areas. This operation would normally be carried out as an emergency recovery programme after large-scale infection, or during shut-down/isolation periods.
- Used as part of curative and preventative programme - Typical fogging times range from 2 minutes for an average room to about 10 minutes for an average ward. Treated areas are normally sealed off from traffic for about 30 minutes after the fogging has been completed to allow the vapour to settle and the atmosphere to clear.

CloxPur5™ - Wipes (alcohol free)

- **CloxPur™ -** impregnated wipes for hard surface sanitation. Use on equipment surfaces for the removal of body spills and for general hygiene purposes.
- Safe on plastic equipment - e.g. metered intravenous dosing systems.
- Packed in easy to use tubs—200 wipes per tub.

For full technical and application details please contact your local Clearwater Chlorine Dioxide Product Specialist

New delivery technologies bring the power of chlorine dioxide without the expense and complication of on-site generation or high level training.

Typical applications are:-

- Constant dosing of drinking water, cold and hot water systems within building services
- Product washing and system disinfection throughout the food industry. Disinfection and neutralisation as part of C.I.P. systems
- Cooling Tower Water
- Intense disinfection for hydro-therapy pool and ancillary services within hospitals
- Elimination of white water mould and pink slime in swimming pools, including filter and balance tank biofilm build-up
- Improved disinfection within Spa Pools
- Eliminate fouling by micro-orgamisms in water softeners
- Treating bacteria in car/ vehicle wash recycling water
- Prevents the formation of slime and odour causing bacteria and fungi within ice making machines
- Tank Cleaning

Clearwater Technology -

"Imagination"

"Innovation"

"Implementation"

Clearwater

Camberley Bristol Bromsgrove Halifax Scotland Colchester

FREE PHONE: 08000 937 936
Email: info@clearwater-technology.ltd.uk
www.clearwater.eu.com