



## BEST MEDICAL HYGIENE SOLUTIONS, LTD

Headquartered in the prestigious city of London, was founded with the mission of becoming a provider of excellence solutions in the areas of hygiene and disinfection, and medical and protective equipment, with a focus on product safety, quality and service. It was in pursuit of that objective that we guarantee the exclusive distribution, to Portugal, Brazil and other Portuguese speaking countries, and distribution for the rest of the world of the products of Swiss Hygiene Technologies.

### SWISS HYGIENE TECHNOLOGIES

FOR THE CHALLENGES OF OUR TIME

**A NEW WAY TO FIGHT BACTERIA, GERMS AND ANTIBIOTIC RESISTANCE**

Hygienic conditions in a large number of areas are below the required standard and this circumstance has a wide range of effects on people and the environment. Strategies for dealing with antibiotic-resistant germs and effective infection control play an increasingly important role in the current clinical and economic situation. Without the sustainable improvement of hygiene conditions, there will be less and less effective means of treating infections caused by this dangerous group of germs, as well as an increase in general infections. In 2018, WHO identifies antimicrobial resistance as the biggest threat to global health, food supply and human development. Since the end of 2019, Humanity has been actively fighting against a Corona virus pandemic.



**Swiss Disinfect Professional AIR** is a highly stable water sodium chloride compound that disinfects room surfaces and air by cold fogging distribution with air humidifiers and air conditioning units. We provide a highly concentrated ready-to-use version **Swiss Disinfect Professional AIR** in a 5-litre container.

#### **Functionality**

In an electrochemical manufacturing process, a solution is obtained which is PH-neutral and at the same time has a very high redox voltage. The redox voltage of **Swiss Disinfect Professional AIR** is over 750 millivolts (mV). The redox voltage is a measure for the germicidal and oxidative effect of disinfectants. Tap water has an average redox voltage of approx. +300 mV. At a redox voltage of approx. +500 mV, water is already sterile and from +550 mV it has a disinfecting effect. At a redox voltage of +750 mV, as with **Swiss Disinfect Professional AIR**, the water has a very strong disinfecting effect and eliminates bacteria within seconds, viruses, fungi and spores within a few minutes.

#### **Unique Technology**

In contrast to conventional room or surface disinfectants, **Swiss Disinfect Professional AIR** is completely harmless during application, as no toxic decomposition products or residues are produced. The treated surfaces and premises can be used again as usual immediately after application.

- Eliminates bacteria within seconds and viruses, germs and fungi reliably within minutes
- Neutralizes all bacterial odours (e.g. lactic acid)
- Non-toxic to humans and the environment
- Dermatologically tested and classified „VERY GOOD“,
- No corrosive or toxic residues (Dermatest)
- Applicable on all surfaces or materials (metal, plastic, leather, etc.)
- Heat and cold resistant Shelf life guaranteed for more than 24months after opening when properly stored
- ECHA PT1, PT2, PT3 and PT4 classified
- Distribution by air conditioning and cold fogging may take place during the presence of humans and animals
- Halal certified by HCS

### Science

With its unique hygiene technologies, Swiss Hygiene Technologies offers solutions for a globally relevant problem. The combination of the products also enables comprehensive prevention of the spread of germs and infections on an entirely new level. In partnership with recognized universities and institutes, field studies have been conducted in order to prepare for the widespread introduction of the products in the hygiene and medical sectors.

### Biokinetic tests

Extensive kinetic tests were carried out on a number of multi-resistant germs and fungi. Fast and effective reduction of the germs could be demonstrated in all areas, by 99,99% (log 4 reduction)

- Staphylococcus aureus
- Staphylococcus epidermidis MRSE
- Escherichia coli
- Klebsiella pneumoniae Laboklin
- Pseudomonas aeruginosa
- Acinetobacter baumannii
- Candida albicans
- Stachybotrys chartarum
- Xylella Fastidiosa
- Pyricularia oryzae

### RESEARCH WITH:



### CERTIFIED BY:



### Virus tests

Tests on poliovirus, type 1 (LSc-2ab) were able to demonstrate sufficient viral efficacy after the shortest exposure time (t = 5 min). The successful virus inactivation of the product on an unenveloped virus shows the potential of the product as a virucide. It can also be used as an effective means of combating enveloped viruses, such as Influenza, Ebola and Corona viruses.

### Application tests

In consultation with the hygiene officers of several hospitals in Austria, application tests of the product were carried out with cold fogging. By means of contact tests on a large number of surfaces, a significant reduction in CFU (germ-forming units) was demonstrated and the effectiveness of the product in practical use was confirmed several times.

- Door handle (CFU reduced from 4 to 0)
- Chair Patientroom (CFU reduced from 74 to 4)
- Handle over bed (CFU reduced from 150 to 4)
- Bedframe (CFU reduced from 31 to 0)
- Calling Station (CFU reduced from 70 to 2)
- Bathroom Table (CFU reduced from 43 to 0)
- Toilet Surface (CFU reduced from 83 to 2)
- Surface chair (CFU reduced from 64 to 9)

### APPLICATION

The product can be applied by air conditioning and cold fogging in rooms. This is done by automatically controlled room humidifiers, which, depending on the application area, apply a predefined quantity depending on the environment, thus ensuring optimum hygiene conditions in the air and on surfaces. Rooms of up to 500 m<sup>3</sup> can be fully saturated in up to 30 minutes (average consumption 275 ml per operation cycle).

### Application areas

- Hospitals and Health Care
- Industrial Parks,
- Industry and production facilities
- Hotels and Restaurants
- Food processing
- Public areas and shopping centers
- Airports and public transport, including vehicles and facilities
- Educational establishments
- Places of Worship
- Parks and beaches
- Golf and football courses
- Disinfection tunnels
- Distribution via air conditioning, cold fogging, in the presence of humans, animals and plants



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