



# VirKon®

Generating Biosecurity

## Lab Animals



**VirKon®**  
Generating Biosecurity  
Advised and distributed by SAFE.

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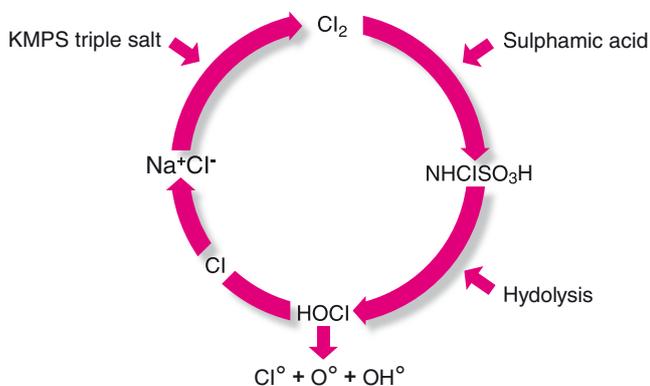
**DU PONT®**  
The miracles of science™

### Disinfecting Laboratory Animal Quarters

Virkon® is a leading disinfectant used by many professionals who choose it for its effectiveness and safety. Virkon® a patented disinfectant with a unique, original formula and an unbeatable spectrum of activity, is extremely safe to use for humans, animals and the environment.

### How it Works

The reaction caused by the elements of the disinfectant is a cycle based on oxido-reduction reactions.



The KMPs complex (Oxone or Monopersulfate Triple Salt) is a powerful oxidation agent which acts on the sodium chloride in the formula when Virkon powder is diluted in water, releasing free radical oxidants (Cl°, OH° and O°) (the HABER Weiss Macrophage Immunity reaction)

### Advantages

This reaction causes the formation of the most harmful radical forms for membranes, enzymes and Prokaryotic organism genomes. This leads to the massive, homogeneous production of oxidising cell-type radicals. They have a short life and break down into H<sub>2</sub>O and O<sub>2</sub>, and do not provoke tissue residue accumulation or lead to ecotoxicity. No bacterial resistance has been found with regard to the chemical species released by Virkon, unlike that observed with normal disinfectants (quaternary ammoniums/aldehydes).

### Expertise

0.5% Virucide with French Marketing Authorisation, 1% Bactericide and Fungicide. Authorised by French Veterinary Services at 1%. Its action has been proved on 20 viral families and over 300 bacterial strains, and as a fungicide on 45 strains of fungus. The disinfectant works at low temperatures (4°C/10°C) complying with BS EN 1656.

Virkon® is effective at 1% on the main types of virus and bacteria belonging to the following families:

#### VIRUSES

*Adenoviridae, Arenaviridae, Asfarviridae, Astroviridae, Birnaviridae, Bunyaviridae, Caliciviridae, Circoviridae, Coronaviridae, Hepadnaviridae, Herpesviridae, Influenzavirus H7N1/H5N1/H1N1, Orthomyxoviridae, Papillomaviridae, Paramyxoviridae, Parvoviridae, Picornaviridae, Polyomaviridae, Poxviridae, Reoviridae, Rotaviridae, Non Conventional Viruses (prions).*

#### BACTERIA

*Actinobacillus, Bacillus, Bordetella, Brucella, Campylobacter, Chlamydomphila, Citrobacter, Clostridium, Dermatophilus, Enterobacter, Erysipelothrix, Escherichia coli, Eubacterium, Haemophilus, Klebsiella, Lawsonia, Listeria, Mycoplasma, Ornithobacterium, Pasteurella, Proteus, Pseudomonas, Salmonella, Serpulina, Serratia, Shigella, Staphylococcus, Streptococcus. . .*

Virkon® is effective on most of the pathogens listed in the FELASA\* recommendations.

Updated complete list of activity reports:  
<http://www2.dupont.com>

### Instructions for use

Virkon® can be used for all prevention and decontamination procedures: footbaths, vehicles and equipment, spraying surfaces, vaporisation. The solution can be sprayed on animal living quarters surfaces or applied with a floor cloth or sponge (veterinary surgeries, floors, autopsy tables and rodent cages).

### Safety

Virkon® is very safe to use for both the user and the environment. Solutions diluted at 1% are non-irritant for skin, mucous membranes and eyes. The solution has a disinfectant effectiveness indicator (pink solution – active/colourless – inactive).

AMM (Marketing Authorisation) N° 8500321. Approved for animal premises, equipment and transport.

**Composition :** Oxone®, dodecylbenzene sulfonate, malic acid, sulfamic acid.

### Presentations :

- Boîte of 10 sachets of 50 g
- Boîte of 1 kg
- Boîte of 2,5 kg



### Bibliography

\* EuroGuide FELASA. On the accommodation and care of animals used for experimental and other scientific purposes. isbn 978-1-85315-751-6 <http://www.felasa.eu>

Prevention of Murine Norovirus Infection in Neonatal Mice by Fostering  
Susan R Compton\*Section of Comparative Medicine, Yale University School of Medicine, New Haven CT

Contact inactivation of orthopoxviruses by household disinfectants  
W. Butcher and D. Ulaeto. Department of Biomedical Sciences, Dstl Porton Down, Porton Down, Salisbury, UK

Techniques of embryo transfer and facility decontamination used to improve the health and welfare of transgenic mice  
J. M. Morrell. European Molecular Biology Laboratory, Meyerhofstrasse 1, Postfach 10.2209, D-69012 Heidelberg, Germany.

Review of successful treatment for Helicobacter species in laboratory mice  
Angela Kerton1 and Paul Warden2. 1 Central Biomedical Services, Imperial College, London, UK; 2 Biological Services, The Kennedy Institute. Slov Vet Res 2007; 44 (3): 63-73