

## VIRETRON

9175

*Hospital-Grade Disinfectant & Deodorant*



### DESCRIPTION

**VIRETRON** is a powerful **Bactericidal**, **Yeasticidal** and **Virucidal** disinfectant, formulated to control and reduce the spread of germs (airborne virus and bacterias) that cause epidemics and diseases.

**VIRETRON** can be used as a space spray to kill airborne germs and as a hard surface disinfectant to kill germs on environmental surfaces.

### APPLICATIONS



**VIRETRON** is used in areas where people are closely associated for extended periods of time and where there is a heavy flow of pedestrian traffic: schools, hospitals, nursing homes, clinics, hotels and motels, restaurants, plants and factories and businesses with large work forces.

**VIRETRON** is recommended when widespread outbreaks threaten and is effective to control the spread of virus and bacterias.

**VIRETRON** is also effective in controlling mildew (mold or fungi), and completely inhibits growth on cloth.

### PRODUCT BENEFITS

- Versatile (air / surfaces).
- 3-ways action: Cleans, Disinfects and Deodorizes in one step.
- Powerful Virucidal, Yeasticidal and bactericidal activity.
- Controls the spread of influenza virus (H1N1, H5N1) and Coronavirus (SARS-Cov2\*, MERS).
- Destroys many airborne bacterias causing the common cold & other respiratory ailments.
- Improves indoor air quality.
- Neutralizes odours from any source in hospitals, nursing homes, kitchens, bathrooms etc.
- Offers residual protection for reservoirs of viruses such as telephones, beds, hardware, etc.
- Reduces the Hazard of cross infections.
- Acts instantly and remains effective for long periods.
- Reduces the risk of dramatic epidemics.
- Complies with European Biocides Regulation n°528/2012.
- Non-corrosive.
- Biodegradable.

### PHYSICAL PROPERTIES

|                        |                    |
|------------------------|--------------------|
| Appearance .....       | Liquid             |
| Colour .....           | Clear White Yellow |
| Odour .....            | Floral             |
| pH.....                | 9.5±0.5            |
| Specific Gravity ..... | 0.9 ± 0.01         |

**Active Substance :** Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, Chlorides 1.8g/L ;  
 Didecyl dimethyl ammonium chloride 2.7g/L

## APPROVALS / CONFORMANCES



\* **VIRETRON** has been included in the Singapore NEA's Interim List of Household Product Effective Against Coronavirus (COVID-19)

## MICROBIOLOGIC ACTIVITIES

### EN 1276:2019 – Bactericidal (phase 2, step 1)

"Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.

| Test Organisms                | ATCC No.   | Organic Load<br>(0.3 g/L bovine albumin) | Concentration | Exposed Time @ 20°C | Titer Reduction log10 (Efficacy %) |
|-------------------------------|------------|--|---------------|---------------------|------------------------------------|
| <i>Staphylococcus aureus</i>  | ATCC 6538  | Clean Condition                          | 10.0%         | 5 minutes           | ≥ 5.46 (99.999%)                   |
| <i>Escherichia coli</i>       | ATCC 10536 | Clean Condition                          | 10.0%         | 5 minutes           | ≥ 5.20 (99.999%)                   |
| <i>Enterococcus hirae</i>     | ATCC 10541 | Clean Condition                          | 10.0%         | 5 minutes           | ≥ 5.19 (99.999%)                   |
| <i>Pseudomonas aeruginosa</i> | ATCC 15442 | Clean Condition                          | 10.0%         | 5 minutes           | ≥ 5.23 (99.999%)                   |

### Conclusion – Bactericidal

After evaluation **VIRETRON** can be declared as having "bactericidal" activity against both gram positive and gram negative bacteria according to EN 1276:2019.

| Gram Negative Bacteria         | Gram Positive Bacteria            |
|--------------------------------|-----------------------------------|
| <i>Acinetobacter baumannii</i> | <i>Bacillus anthracis</i>         |
| <i>Burkholderia cepacia</i>    | <i>Bacillus cereus</i>            |
| <i>Enterobacter aerogenes</i>  | <i>Bacillus subtilis</i>          |
| <i>Escherichia coli</i>        | <i>Clostridium botulinum</i>      |
| <i>Klebsiella pneumoniae</i>   | <i>Clostridium perfringens</i>    |
| <i>Proteus vulgaris</i>        | <i>Enterococcus hirae</i>         |
| <i>Pseudomonas aeruginosa</i>  | <i>Listeria monocytogenes</i>     |
| <i>Salmonella Enteritidis</i>  | <i>Mycobacterium Smegmatis</i>    |
| <i>Salmonella Typhimurium</i>  | <i>Staphylococcus aureus</i>      |
| <i>Serratia marcescens</i>     | <i>Staphylococcus epidermidis</i> |
| <i>Shigella dysenteriae</i>    | <i>Streptococcus pneumoniae</i>   |

### EN 1650:2019 – Yeasticidal (phase 2, step 1)

“Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas – Test method and requirements .

| Test Organisms          | ATCC No.   | Organic Load<br>(0.3 g/L bovine albumin) | Concentration | Exposed Time @ 20°C | Result (lg)     |
|-------------------------|------------|--|---------------|---------------------|-----------------|
| <i>Candida albicans</i> | ATCC 10231 | Clean Condition                          | 10.0%         | 15 minutes          | ≥ 4.17 (99.99%) |

#### Spoilage organism (Moulds):

*Aspergillus niger*, *Penicillium funiculosum*, *Epidermophyton floccosum*, *Microsporum canis*, *Trichophyton mentagrophytes*, *Candida albicans*, *Saccharomyces cerevisiae*

### EN 14476:2013 + A2 :2019 – Viricidal (Phase 2, Step 1)

Chemical disinfectants and antiseptics - “Quantitative suspension test for the evaluation of virucidal activity in the medical area.

| Test Organisms                              | ATCC No.     | Organic Load<br>(0.3 g/L bovine albumin) | Concentration | Exposed Time @ 20°C | Result (lg)     |
|---|--------------|--|---------------|---------------------|-----------------|
| <i>Modified vaccinia virus Ankara (MVA)</i> | ATCC VR-1508 | Clean Condition                          | 40.0%         | 15 minutes          | ≥ 4.46 (99.99%) |

#### Conclusion – Viricidal

After evaluation with modified vaccinia virus Ankara the surface disinfectant **VIRETRON** can be declared as having “virucidal activity against all enveloped viruses” according to EN 14476:2013+A2:2019.

Extract from Annex A in EN 14476

Examples of viruses which may contaminate human medical instrument, hands, surfaces (Enveloped viruses)

|   |   |  |
|---|---|--|
| <i>Bovine Viral Diarrhea Virus (BVDV)</i>   | <i>Bovine Rhinotracheitis</i>   | <i>Canine Distemper Virus</i>                            |
| <i>Coronavirus : MERS, SARS-Cov1, SARS-CoV2 (COVID-19)</i>                                | <i>human influenza viruses</i>  | <i>Feline Picornavirus</i>                               |
| <i>Hepatitis B Virus (HBV) , Hepatitis C Virus (HCV), Hepatitis Delta virus (HDV)</i>     | <i>Flavivirus</i>   | <i>Herpes Simplex Type 1 &amp; Type 2, Herpesviridae</i> |
| <i>Human Immunodeficiency Virus (HIV-1) / (HIV-2), Human T Cell Leukemia Virus (HTLV)</i> | <i>Influenza Avian Influenza A (H1N1), (H2N2), (H3N2), (H3N2), (H5N1), (H9N2)</i> | <i>Paramyxovirus (Mumps)</i>                             |
| <i>Pertussi Virus (Bordetella pertussis)(Whooping cough)</i>                              | <i>Porcine Respiratory &amp; Reproductive Syndrome Virus (PRRSV)</i>              | <i>Rabies Virus, Rubella Virus</i>                       |
| <i>Respiratory Syncytial Virus (RSV)</i>  | <i>Filoviridae (Ebola virus)</i>  | <i>Paramyxoviridae , Poxviridae</i>                      |

### DIRECTIONS FOR USE

**For Disinfecting:** Hold dispenser upright about 15 to 20cm from surface to be disinfected and spray until surface is wet. Allow a contact time of 15 minutes then wipe off.

**For Deodorizing:** Hold dispenser upright away from face and spray into air several times toward the center of the room.

**For Mildew Control:** Clean surface. Spray surface until wet. Repeat application every week to maintain control.

#### For Fogging:

- Use a ULV atomizer fogger (preferable particle size 5 - 20 microns ie : [Space Generator No 0014](#)) or Trigger Sprayer.



- Do not dilute **VIRETRON**.
- Fill the fogger's tank.
- Atomize **VIRETRON** toward ceiling until light fog covers areas.

*Note: Care should be taken on polished wood, furniture, or rayon fabrics. (no direct spraying)*

Before using **VIRETRON**, food and food packaging materials must be removed or carefully protected. Treated food contact surfaces and equipment must be thoroughly cleaned and rinsed with potable water prior to reuse.

### STORAGE & SAFETY

Two years, stored in closed original packaging in a cool and dry place. Irritant to eyes and skin. Wear gloves and glasses.

*For further information please refer to the Safety Data Sheet.*

### PACKAGING

Ref: OH-9175-J1 ..... Jerry Can 4 X 5L

### WARRANTY

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