

# Material Safety Data Sheet

CS: 1.9.625

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Infosafe No<sup>TM</sup> VARPW Issue Date : August 2015 ISSUED by SUSTAINA

Product Name VIRI-DIS SV

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** VIRI-DIS SV  
**Company Name** Sustainable Cleaning Solutions Pty Ltd  
**Address** 6 Lakewood Boulevard Braeside  
VIC 3195 Australia  
**Emergency Tel.** 0417 807 780  
**Telephone/Fax Number** Tel: (03) 9580 2499  
Fax: (03) 9580 2488  
**Recommended Use** A specialised disinfectant for bacteria, virus and fungus control.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as hazardous  
HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.

**Risk Phrase(s)** Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).  
Not Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

**Safety Phrase(s)** Classified as hazardous  
R36/38 Irritating to eyes and skin.  
S2 Keep out of reach of children.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S45 In case of accident or if you feel unwell seek medical advice immediately  
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Water	7732-18-5	60-100 %
	Other ingredients determined not to be hazardous	Not required	0-10 %
	Quaternary Ammonium Compound	63449-41-2	5-10 %
	Surfactants		0-10 %

## 4. FIRST AID MEASURES

**Inhalation** Remove from exposure. Move to fresh air. If symptoms persist, see a doctor.

**Ingestion** Rinse mouth with water. Do not induce vomiting. Give a glass of water or milk to be taken slowly. Seek medical advice.

**Skin** If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

**Eye** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**First Aid Facilities** Eye wash station and normal washroom facilities.

**Advice to Doctor** Product contains a quaternary ammonium salt and detergent in solution. Contact Poisons Information Centre.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Use extinguishing media appropriate to surrounding fire. Use water spray to cool containers and surrounds.

**Specific Hazards** Not flammable.

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Disposal of small spillages only. For large spillages liquids should be contained using sand or earth, and both liquids and solids then transferred to

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salvage containers. Residues should be treated as for small spillages.  
CAUTION: Before dealing with spillage take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. CARE! Spillages will be slippery. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on inert absorbent, transfer to container and arrange removal by disposals company. Wash site of spillage thoroughly with water. Ventilate area to dispel any residual vapours.

## 7. HANDLING AND STORAGE

**Conditions for Safe Storage** Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bunded area. Store in original container. Keep away from acids and oxidising agents. Prevent vapours from collecting in low lying or enclosed spaces. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents. Prevent release into the environment.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Other Exposure Information** No value assigned by the National Occupational Health and Safety Commission (NOHSC).  
**Engineering Controls** None required for normal use. Maintain adequate ventilation at all times.  
**Personal Protective Equipment** Avoid contact with the skin and eyes. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-  
Safety glasses, where risk of splashing exists  
Gloves, rubber or plastic, when handling concentrate or in case of prolonged contact.  
Always maintain a high level of personal hygiene when using this product. That is wash hands before eating, drinking, smoking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** Liquid  
**Appearance** Clear green mobile liquid  
**Odour** Lime fragrance.  
**Boiling Point** 100C  
**Solubility in Water** Miscible at all concentrations  
**Specific Gravity** 1.0  
**pH Value** 11.5 - 12.5  
**Vapour Pressure** No data  
**Flash Point** None  
**Flammability** Not flammable.

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal use conditons.  
**Conditions to Avoid** Heat, flames, ignition sources and incompatibles.  
**Incompatible Materials** Strong alkalis, acids, oxidizing agents  
**Hazardous Decomposition Products** Water vapour, carbon dioxide, oxides of nitrogen, trace of hydrogen chloride.

## 11. TOXICOLOGICAL INFORMATION

**Toxicology Information** No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and

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overexposure occurs are:

**Inhalation** Aspiration (breathing in) of liquid spray or mist liable to cause irritation of respiratory tract.

**Ingestion** Quaternary ammonium salts are moderately toxic and corrosive. Irritant to throat and mucous membranes. When diluted as directed, may cause discomfort and possible nausea.

**Skin** May cause irritation on prolonged contact with the concentrate. When diluted as directed, irritant effects are unlikely.

**Eye** Concentrated product may cause burns to the eyes. When diluted as directed, causes discomfort.

**Chronic Effects** Repeated skin contact with the concentrate may lead to dermatitic effects.

**Acute Toxicity - Oral** LD50: Quaternary ammonium salt 366 mg/kg oral, rat  
Surfactant 3,000 mg/kg oral, mouse

## 12. ECOLOGICAL INFORMATION

**Persistence / Degradability** Major components are readily biodegradable.

**Information on Ecological Effects** Harmful to aquatic life.

**Environ. Protection** Avoid contaminating waterways, drains, sewers, or ground.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** Do not dump large quantities into biological treatment ponds. Laboratory data indicates that is quaternary ammonium compounds are discharged steadily at low concentrations (<15mg/l), it may be expected that these salts can be degraded in sewage treatment plants by acclimatised organisms. Before discharging to sewer, contact local authority. Contact local Waste Disposal Authority before all major disposal problems.

## 14. TRANSPORT INFORMATION

**Transport Information** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 15. REGULATORY INFORMATION

**Regulatory Information** Classified as hazardous  
HAZARDOUS SUBSTANCE.  
SCHEDULED POISON.

**Poisons Schedule** Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).  
S5  
Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Hazard Category** Irritant

**AICS (Australia)** All components listed.

## 16. OTHER INFORMATION

**Signature of Preparer/Data Service** Technical Manager 03 9580 2499

**Technical Contact Numbers** Emergency Advice All Hours:  
General Manager Tel: 0417 807 780 Mon-Fri 8am - 6pm  
Poisons Information Centre: 13 11 26 - 24hrs

**Other Information** This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this MSDS carefully, and if in doubt ring the Contact Point Number given below.  
...End Of MSDS...

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## VIRI-DIS SV

### SUSTAINABLE VET RANGE

## DISINFECTANT / VIRUCIDE / FUNGICIDE

FEATURES	AREAS OF USE
<ul style="list-style-type: none"> <li>• US EPA registered formulation</li> <li>• Anti-bacterial</li> <li>• Anti-viral (will kill HIV and Hepatitis C)</li> <li>• Anti-fungal</li> <li>• Pleasant fragrance</li> </ul>	<ul style="list-style-type: none"> <li>• Prisons</li> <li>• Hospitals</li> <li>• Aged Care</li> <li>• Institutions</li> <li>• Hospitality</li> <li>• Vet Clinics</li> </ul>

### Description

VIRI-DIS is an alkaline disinfectant/cleaner formulated with a powerful blend of specialised new generation quaternary ammonium compounds. Designed for the cleaning and disinfecting of a wide range of hard surfaces, it is particularly effective in critical areas where a high level of disinfection is essential.

VIRI-DIS has been laboratory tested and proven effective against a wide range of bacteria, viruses and fungi.

### Directions For Use

Dilute 1 part VIRI-DIS to 63 parts water (1:64). Best results are obtained with hot water. Cleaning solution should be allowed to contact surface for at least 10 minutes.

Efficacy data is detailed in the following pages.

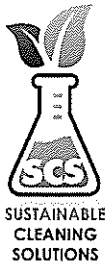
### Safety Information

VIRI-DIS is classed as an irritant substance. Avoid contact with the neat product at all times. VIRI-DIS is considered non hazardous when diluted to 1:64. Ensure when using neat VIRI-DIS the user wears the Personal Protective Equipment stated on the Material Safety Data Sheet.

If poisoning occurs contact a doctor or Poisons Information Centre Australia on 13 11 26. If in eyes, hold eyes open and flood with plenty of clean water- seek medical advice if necessary. If swallowed do not induce vomiting, give water to drink and seek medical attention. If skin or hair contact occurs, wash area thoroughly with clean water.

Packaging: 5lt, 15lt, 200lt

6 Lakewood Boulevard, Braeside. Victoria 3195  
Phone: 03 95802499 Fax: 03 95802488



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## VIRI-DIS SV

### Efficacy data - Disinfectant

Test Method: (AOAC Official test method, 14th edition. Use-dilution method)  
 Dilution rate: 1:64  
 Contact time: 10 minutes  
 Organic soil loading: 5%  
 Water hardness: 400ppm as CaCO<sub>3</sub>

Organism	ATCC number	No. of replicates	Results
<i>Acinetobacter baumannii</i>	19606	10,10	0/10, 0/10
<i>Brevibacterium ammoniagenes</i>	6871	10, 10, 10	0/10, 0/10, 0/10
<i>Campylobacter jejuni</i>	29428	10,10	0/10, 0/10
<i>Enterobacter aerogenes</i>	13408	10, 10, 10	0/10, 0/10, 0/10
<i>Enterococcus faecalis</i>	11700	10, 10, 10	0/10, 0/10, 0/10
<i>Enterococcus faecalis</i> - Vy resistant	51299	10, 10	0/10, 0/10
<i>Esheria coli</i>	11229	10, 10, 10	0/10, 0/10, 0/10
<i>Klebsilla pneumoniae</i>	4352	10, 10, 10	0/10, 0/10, 0/10
<i>Legionella pneumophilia</i>	33153	10, 10	0/10, 0/10
<i>Pseudomonas aeruginosa</i>	15442	60, 60, 60, 40	0/60, 0/60, 0/60, 0/40
<i>Pseudomonas cepacia</i>	17765	10, 10	0/10, 0/10
<i>Pseudomonas cepacia</i>	25416	10, 10	0/10, 0/10
<i>Pseudomonas cepacia</i>	25608	10, 10	0/10, 0/10
<i>Salmonella (choleraesuis) enterica</i>	10708	60, 60, 60, 40	0/60, 0/60, 0/60, 0/40
<i>Salmonella schottmuelleri</i>	10719	10, 10, 10	0/10, 0/10, 0/10
<i>Salmonella typhi</i>	6539	10, 10, 10	0/10, 0/10, 0/10
<i>Serratia marcescens</i>	274	10, 10, 10	0/10, 0/10, 0/10
<i>Shigella dysenteriae</i>	9380	10, 10, 10	0/10, 0/10, 0/10
<i>Staphylococcus aureus</i>	6538	60, 60, 60, 40	0/60, 0/60, 0/60, 0/40
<i>Staphylococcus aureus</i> <sup>1</sup>	33592	10, 10	0/10, 0/10
<i>Staphylococcus aureus</i> <sup>2</sup>	14154	10, 10	0/10, 0/10
<i>Staphylococcus aureus</i> <sup>3</sup> (VISA)	CDC HIP-5836	10, 10	0/10, 0/10
<i>Streptococcus pyogenes</i>	12344	10, 10, 10	0/10, 0/10, 0/10
<i>Virbrio cholerae</i>	14035	10, 10	0/10, 0/10

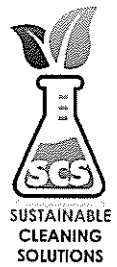
<sup>1</sup> Methicillin Resistant strain - (MRSA), <sup>2</sup> Multi drug Resistant, <sup>3</sup> Reduced susceptibility to Vancomycin

Conclusion: Viri-Dis effectively kills the above organisms as specified in the US EPA test performance standards. Viri-dis meets US EPA requirements for hard surface disinfectant claims when diluted 1:64.



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## VIRI-DIS SV

### Efficacy data - Virucide

Test Method: (US EPA guidelines)  
 Dilution rate: 1:64  
 Contact time: 10 minutes  
 Organic soil loading: 5%  
 Water hardness: 400ppm as CaCO<sub>3</sub>

Organism	Source of Virus or ATCC number	Host system; cytopathic effect	No. of replicates	Results Log <sub>10</sub> reduction
Adenovirus Type 5 <sup>4</sup>	ATCC VR-5	Human Epithelioma #2 cells; lytic cytopathic effect	4	> 4.0
Adenovirus Type 7 <sup>4</sup>	ATCC VR-7	Hi-HeLa, ATCC CRL-1958	3,3	> 4.0
Hepatitis B (HBV)	Hepadnavirus testing	Hepatitis B (w/ 5% serum)	4,4	> 4.2, > 4.2
Hepatitis C (HCV)	Bovine Viral Diarrhea Virus	MDBK cells	2	> 5.0
Herpes Simplex Type 1	HSV-1 Sabin	Human Epithelioma #2 cells; lytic cytopathic effect	8	> 4.0
Herpes Simplex Type 2	HSV-II Sabin (CL5)	Human Epithelioma #2 cells; lytic cytopathic effect	8	> 3.5
HIV-1 (AIDS virus) <sup>5</sup>	HTLV-III <sub>B</sub> ; Electronucleonics Inc.	MT2 cells; lytic cytopathic effect	4	> 4.5
Human Coronavirus	ATCC VR-740	MRC-5 cells	2	> 3
Influenza A/Brazil	A/Brazil 11/78 (H1N1) E-7, CDC	10-day, chick embryo; death of embryo	4	> 5.5
Norwalk (Feline Caliciviruses the surrogate for Norwalk virus)	Feline Caliciviruse (FSV) University of Ottawa	Crandell feline kidney (CrFK) cells	3,3,3,3	> 6.59, > 6..58
SARS associated Coronavirus	SARS associated Coronavirus strain 200300392	Veri E6 cells	4	> 3.67
Respiratory Syncytial Virus	VR-26	Hep-2 (Human Larynx carcinoma)	2	> 4.75
Rotavirus	Strain WA	MA 104 cells	8	> 5.5
Vaccinia	Wyeth strain	Human Epithelioma #2 cells fed with MEM95CS5	8	> 5.0

<sup>4</sup>Dilution of 1:16

<sup>5</sup> Contact time 1 minute

**Conclusion:** Viri-Dis effectively inactivates the above viruses as specified in the US EPA test performance standards. Viri-dis meets US EPA requirements for hard surface virucidal claims when diluted 1:64.

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## VIRI-DIS SV

### Efficacy data - Virucide (animal viruses)

Test Method: (US EPA guidelines)  
Dilution rate: 1:64  
Contact time: 10 minutes  
Organic soil loading: 5%  
Water hardness: 400ppm as CaCO<sub>3</sub>

Organism	Source of Virus or ATCC number	Host system; cytopathic effect	No. of replicates	Results Log <sub>10</sub> reduction
Avian Influenza (H3N2)	Avian Influenza (H3N2) Virus ATCC VR 2072 Strain A/Washington/897/8 OX A/Mallard/ New York/ 6750/78	Embryonated Chicken Eggs	4,4,4	≥ 4.3
Avian Influenza (H5N1)	Strain H5N1 - PR8/CDC- RG CDC#2006719965	Rhesus Monkey Kidney Cells (RMK)	4,4,4	≥ 4.0
Canine Distemper Virus	Canine Distemper Strain Ondestpoort	Vero CCL-81	2	> 4.0
Feline Calicivirus	Feline Calicivirus (FSV) Univ. of Ottawa	Crandell Feline Kidney (Crk cells)	3,3,3,3	> 6.59, > 6.58
Newcastle Disease Virus	NDV Atcc VR-108 Strain B-1 Hitchner and Blacksburg	Embryonated Chicken Eggs	4,4	> 4.0
Pseudorabies Virus	PRV Strain Aujeszkies PT- 1 Origin	MDBK Cells	2	> 4.0

Conclusion: Viri-Dis effectively inactivates the above animal viruses as specified in the US EPA test performance standards. Viri-dis is an effective virucide for non porous inanimate hard surfaces when diluted 1:64.





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### Efficacy data - Fungicide & Mildewstat

Test Method: Official Method of Analysis of the AOAC, Fungicidal Test  
 Dilution rate: 1:64  
 Contact time: 10 minutes  
 Organic soil loading: Pre-cleaned  
 Water hardness: 400ppm as CaCO<sub>3</sub>

Organism	ATCC number	No. of replicates	Results			
			5 mins	10 mins	15 mins	
Trichophyton mentagrophytes	9533	4	0/4	+	0	0

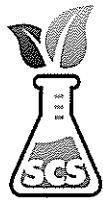
Test Method: Official Method of Analysis of the AOAC, Fungicidal Test - Use Dilution  
 Dilution rate: 1:32  
 Contact time: 10 minutes  
 Organic soil loading: 5%  
 Water hardness: 400ppm as CaCO<sub>3</sub>

Organism	ATCC number	No. of replicates	Results
Trichophyton mentagrophytes	9533	10, 10	0/10, 0/10

Test Method: Mildewstat (Mould and mildew control) - EPA - TSD 6-201 mildewstat on hard surfaces  
 Dilution rate: 1:64  
 Contact time: 10 minutes  
 Organic soil loading: 5%  
 Water hardness: 400ppm as CaCO<sub>3</sub>

Organism	ATCC number	No. of replicates	Results
Aspergillus niger	6275	10, 10, 10	0/10, 0/10, 0/10

**Conclusion:** Viri-Dis effectively kills Trichophyton mentagrophytes as specified in the test performance standards. Viri-dis is an effective fungicide for non porous inanimate hard surfaces when diluted at either 1:64 on pre-cleaned surfaces or at 1:32 in the presence of 5% organic soil (dirty surfaces). Viri-Dis effectively kills Aspergillus niger as specified in the test standards. Viri-Dis is an effective mildewstat for non porous inanimate hard surfaces when diluted at 1:64.



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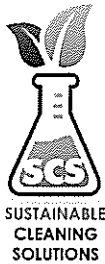
## VIRI-DIS SV

### Summary of antimicrobial efficacy - bacterial disinfection

Viri-Dis effectively kills the organisms listed below when diluted 1:64 with a contact time of at least 10 minutes.

Organism	Potential Health Effects <sup>6</sup>
Acinetobacter baumannii	A nosocomial (hospital acquired) infection can cause septicemia, meningitis and urinary tract infections.
Brevibacterium ammoniagenes	Associated with industrial contamination.
Campylobacter jejuni	Associated with acute gastroenteritis. Spread by anal/oral route resulting in diarrhea outbreaks
Enterobacter aerogenes	Associated with bacteremia, respiratory, wound and urinary tract infections.
Enterococcus faecalis	Can cause life threatening hospital acquired (nosocomial) infections such as endocarditis.
Eschericia coli	Can result in diarrhea outbreaks. Associated with urinary tract infections and bacteremia.
Klebsilla pneumoniae	Associated with severe pneumonia, urinary tract infections and bacteremia.
Legionella pneumophilia	Its' presence in water can cause legionellosis (respiratory infection)
Pseudomonas aeruginosa	Causes wound infections, meningitis, pneumonia and eye infections.
Pseudomonas cepacia	Causes septicemia, wound infections, meningitis, pneumonia and eye infections especially in the chronically ill.
Salmonella (choleraesuis) enterica	Causes acute gastroenteritis and septicemia.
Salmonella schottmuelleri	Causes acute gastroenteritis and diarrhea
Salmonella typhi	Causes acute gastroenteritis and diarrhea. Causative agent for typhoid fever.
Serratia marcescens	Urinary tract infections, meningitis and septicemia.
Shigella dysenteriae	Causes bacillary dysentery.
Staphylococcus aureus	Major cause of hospital acquired (nosocomial) infections. Causes wound infections, septicemia, endocarditis, meningitis, osteomyelitis and pneumonia. Causes food poisoning by colonising food and secreting enterotoxins.
Staphylococcus faecalis	Causes haemolysis, urinary tract infections and endocarditis.
Streptococcus pyogenes	Causes haemolysis, urinary tract infections and endocarditis. Causative agent of sore throats.
Virbrio cholerae	Causative agent for cholera, causes severe diarrhea - often fatal.

<sup>6</sup> Microbiology; D. Kingsbury and G. Wagner



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## VIRI-DIS SV

### Summary of antimicrobial efficacy - Virus inactivation

Viri-Dis effectively inactivates the viruses listed below when diluted 1:64 with a contact time of at least 10 minutes.

Virus	Potential Health Effects <sup>7</sup>
Adenovirus Type 5	Causative agent of colds and other respiratory ailments
Avian Influenza H3N2	A subtype of Influenza A. Can infect humans and pigs. This virus has now mutated into many strains.
Canine Distemper virus	Causes Distemper - a contagious, incurable and often fatal multisystemic viral disease that affects the respiratory, gastrointestinal, and central nervous systems.
Feline Calicivirus (Norwalk)	Affects the upper respiratory system, the eyes, the musculoskeletal system and the gastrointestinal tract.
Herpes simplex Type 1&2	May result in oral mucocutaneous lesions. Associated with most orofacial herpes and HSV encephalitis.
Hepatitis B (HBV)	Causes Hepatitis B
Hepatitis C (HCV)	Causes Hepatitis C - a chronic liver disease.
HIV-1 (AIDS Virus)	Causative agent of Acquired Immunodeficiency Syndrome (AIDS)
Human Coronavirus	Associated with respiratory infections.
Influenza A / Brazil	Causes influenza
Newcastle Disease Virus	Can affect most species of birds. Fatality rate of almost 100% can occur in unvaccinated poultry flocks. Can infect vaccinated poultry.
Pseudorabies virus	A swine disease that is endemic in most parts of the world. Known as Aujeszky's disease, and in cattle as mad itch.
Respiratory Syncytial Virus	Can cause lower respiratory infections in children under 2 and mild upper respiratory infections in older children and adults.
SARS associated Coronavirus	Severe Acute Respiratory Syndrome
Vaccinia	Causes pox virus infections.

<sup>7</sup> Microbiology; D. Kingsbury and G. Wagner



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### Summary of fungicidal and mildewcidal properties

Viri-Dis effectively kills the fungi listed below when diluted as specified with a contact time of at least 10 minutes.

Fungi	Surface condition	Dilution rate	Potential Health Effects <sup>8</sup>
Trichophyton mentagrophytes	Pre cleaned	1:64	Tinea (Athlete's foot) fungus. Found in shower and dressing rooms.
Trichophyton mentagrophytes	Dirty	1:32	Tinea (Athlete's foot) fungus. Found in shower and dressing rooms.
Aspergillus niger	Dirty	1:64	Black mould found in shower and dressing rooms. Can cause aspergillosis.

<sup>8</sup> Microbiology; D. Kingsbury and G. Wagner