COLOURLOCK
INDUSTRIES LIMITED

Safety Data Sheet

Product Name: **Viropac™**

1. Identification of substance and manufacturing company

Manufacturing Company:	Colourlock Industries Ltd
Address:	Ground Floor, Queens Wharf, 1 Queens Wharf, Wellington, New Zealand
Telephone contact numbers:	Colourlock Office (Work Hours) - +64-4-473-4146 Technical Director (After Hours) - +64-4-566-1128
Fax number:	+64-4-473-6162
Product use:	Viropac™ is a broad-spectrum virucide and disinfectant for use on hard surfaces, with proven efficacy against many viruses, bacteria and fungi.

2. Composition

Ingredients:	Combination of quaternary ammonium compounds and surface-active agents.

3. Hazard identification

Signs and symptoms of exposure:

Inhalation:	No adverse effects are anticipated from single exposure to vapours. Long-term exposure to aerosols should be avoided.
Ingestion:	The concentrated material is regarded as moderately toxic. May cause irritation of the mouth and throat, abdominal discomfort, nausea, vomiting, and diarrhoea. Aspiration into the lungs may occur during accidental ingestion or vomiting, resulting in lung injury. When used in its diluted form, Viropac is only slightly toxic.
Skin:	Prolonged skin contact may cause slight skin irritation with local redness. Prolonged skin contact should be avoided.
Eye:	Causes moderate irritation experienced as discomfort or pain, with marked redness.

Chronic, prolonged or repeated over exposure:

Repeated skin contact may cause dermatitis. Viropac™ is not classified as a sensitising agent.

4. First aid

Inhalation:	Move affected person to fresh air. If symptoms persist seek medical assistance.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. If patient is fully conscious give two glasses of water.
Skin:	Wash contacted areas with soap and water. Remove contaminated clothing. If irritation persists seek medical attention.
Eye:	Flush with water for at least 15 minutes. Seek immediate medical advice.
First aid facilities:	An eye fountain, safety shower and general washing facilities should be readily available.
Advice to Doctor:	There is no specific antidote. Treatment of exposure should focus on the control of symptoms and clinical condition of patient.

5. Fire fighting measures

Extinguishing media:	Not applicable. Viropac™ is non-flammable.
Combustion products:	Not applicable.
Protective equipment:	Emergency service personnel who may come into contact with the concentrated Viropac™ product should wear eye and skin protection.

6. Accidental release

Personnel:	Where spills have occurred on the ground the floor surface may be slippery. When responding to a spill personnel should wear eye and skin protection.
Environmental:	Avoid discharges of concentrate to natural waterways.
Cleanup:	Wherever possible contain the spilled material. For small spills, use soil or sand to absorb the spilled product. For larger spills, collect the product in properly labelled containers.

7. Handling and storage

Handling:	Use with adequate ventilation. Wash thoroughly after handling. Avoid breathing aerosol.
Storage:	Avoid strong oxidizers. When not in use keep all containers closed.
Bulk quantities:	Do not store large quantities of Viropac™ near drains that lead to natural waterways. Store in accordance with good industrial practice.

8. Exposure controls and personal protection

Exposure limits:	There are no workplace exposure standards limits for this product or for the ingredients used in the product, however, good industrial practice and adequate ventilation is recommended.
Respiratory protection:	When used in accordance with the manufacturer's instructions, respiratory protection is generally not required. In situations where high levels of aerosol at present, the use of an approved air-purifying respirator is recommended.
Eye protection:	When handling the concentrated material used approved chemical goggles or safety glasses.
Hand:	Use approved chemically resistant gloves.
Body protection:	Wear a chemical apron whenever handling bulk quantities of the concentrated product.
Other information:	AS/NZS 1336 - recommended practices for eye protection in the industrial environment. AS/NZS 2161.2 - occupational protective gloves

9. Physical and chemical properties

Appearance:	Clear - light yellow liquid.
Odour:	Faint, pleasant odour.
Boiling point:	Initial Boiling Point at 100°C.
Density @ 20°C (Kg/Lt.)	1.02
Solubility in water:	Complete.
Melting point:	Not applicable.
Vapour pressure:	< 0.01 mm Hg @ 20°C
Evaporation rate:	<0.01 (Butyl Acetate = 1)
pH:	6 - 8
Flammable limits (LEL):	Not applicable.
Flammable limits (UEL):	Not applicable.
Auto ignition temperature:	Not applicable.

10. Stability and reactivity

Stability:	Stable. Storage tests have confirmed Viropac™ to be stable for 10+ years.
Hazardous polymerisation:	Will not occur.
Materials to avoid:	Avoid strong oxidizers.

11. Toxicological information

Toxicology information:

Ingestion:

Based on test results from similar materials, this industrial strength detergent in its concentrated form should be treated as moderately toxic.

Acute oral toxicity: LD_{50} Rat = 2925 mg/l.

When used in accordance with the manufacturer's instructions, the concentrations at which the final product would be applied would render the product as being practically non-toxic.

Chronic effects:

Mutagenicity:

Animal Mutagenicity tests on the ingredients used in Viropac™ were negative.

Teratogenicity:

Non-Teratogenic.

12. Ecological information

Environmental protection:	Avoid contaminating natural waterways and the ground.
Ecotoxicity:	LC_{50} Rainbow Trout. Result = 62.4 mg/l LD_{50} Mallard Duck. Result > 36,000 mg/l (8 day)
Biodegradability:	The ingredients used in Viropac™ are classified as biodegradable in concentrations below 160 mg/l.

13. Disposal considerations

Waste disposal:

Surfactants can cause foaming problems and biological wastewater treatment plants. Do not allow the concentrated product to enter any sewers, drains or ground.

The preferred waste management option for any unused and uncontaminated material is to contact the manufacturer for potential re-use. Any contaminated concentrate should be sent to an approved waste disposal contractor.

Any contaminated packaging should be disposed of in accordance with local government regulations.

Containers that are in good condition and have been cleaned can be recycled.

14. Transport information

This product is not classified as a dangerous good for transport by a road, rail, sea, or air.

DG class:	None allocated
Hazchem code:	None allocated
Packaging group:	None allocated

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