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BARRIER SPRAY LS1864

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Virucidal Barrier Coat

Kills 99.9% of bacteria and germs.



BARRIER SPRAY LS1864 combines 70% ethanol, hydrogen peroxide, organic acids and polymers to sanitise a surface and leave a temporary protective coating giving medium term protection against bacteria and microbes. The coating is partly hydrophobic, so it repels water born spray such as sneezing. It is alcohol based so it is quick drying. It is safe on skin, food contact surfaces, plastic, soft and hard surfaces and is noncorrosive to metals. It is a ready to use sanitiser for sanitising both nonporous surfaces such as benches, tables, chairs, equipment, floors and walls. It can also be used on porous surfaces such as fabric.

BARRIER SPRAY LS1864 will kill a broad spectrum of micro-organisms including bacteria, viruses, yeasts, moulds, fungi and algae. It can be used in the food industry to clean light soil and sanitise preparation surfaces such as benches and equipment. It can be used in rooms and in motor vehicles. It is suitable for sanitising tools, equipment and medical instruments.

BARRIER SPRAY LS1864 can be applied by spray, wiping or immersion. It will tolerate a light soil load without losing its effectiveness. It is corrosion safe on all metal and painted surfaces and will not harm plastics or fabric. It is odourless and pleasant to use.

CHEMICAL AND PHYSICAL PROPERTIES

Appearance:	Clear colourless liquid
Flash Point:	21C
Odour:	Low
Specific Gravity:	0.88
pH:	2.5 – 4.5
Foam Characteristics:	Low

DIRECTIONS FOR USE

Heavy soil: Clean away gross soil before sanitising. Any surfaces holding liquid must be drained and any collection of liquid removed before contact with food. Spray on and leave 1 to 2 minutes to dry.

Light soil: Spray on and leave to dry.

Sporting equipment: It can be either sprayed on and left to dry or immersed neat for 1 – 2 seconds then remove and allow to dry.

Efficacy

Bacteria: **BARRIER SPRAY LS1864** is effective against both gram negative and gram-positive bacteria. Results against Staphylococcus aureus and Escherichia coli on skin are shown below.

Organism	% Kill	
	30 seconds	60 seconds
Staphyococcus Aureus ATCC 6538	99.99	99.99
Escherichia coli ATCC 11229	99.99	99.99

Viricidal Activity: The formulation was tested in comparison to a 70% ethanol formulation thickened with hydroxyethyl cellulose.

The clean fingerpads of test subjects were treated with the 2 formulations and allowed to dry for 4 hours. Rhinovirus 39 at a titer of 1.3×10^3 pfu (plaque forming units) was applied to fingerpads. The virus was dried on the fingerpads for 10 minutes, then the fingerpads were rinsed with a viral recovery broth containing 75% EBSS and 25% FBS with 1. times. antibiotics. The sample was diluted serially in viral recovery broth and plated onto H1-HeLa cells. Titers were assayed as per the plaque assay. Complete inactivation of Rhinovirus 39, i.e., a greater than 3 log reduction, was achieved with the BARRIER SPRAY LS1864 formulation while the conventional 70% ethanol formulation was ineffective.

Formulation	Viral Log 10 reduction	% hands with virus
BARRIER SPRAY LS1864	2	0
70% Ethanol with hydroxyethyl cellulose	<0.5	100