

Virkon® LSP

Versatile synthetic phenolic disinfectant,
effective against viruses, bacteria and yeasts



 **LANXESS**
BIOSECURITY
SOLUTIONS



KILLS AVIAN INFLUENZA
in just 1 minute



SURFACE, EQUIPMENT,
boot dip, vehicle
and thermal fogging
disinfection



HIGHLY EFFECTIVE
against Salmonella



COMPATIBLE WITH
common farm
materials at 1%



EFFECTIVE
in the presence of
organic matter

Product Type (Biocidal Products Regulation; BPR)

- PT3: Veterinary hygiene (materials and surfaces associated with the housing and transportation of animals)

Approvals

UK DEFRA approved for disinfection of inanimate surfaces where an approved product is required to be used under the control legislation for the following specific disease(s) orders;

- Diseases of Poultry Order and the Avian Influenza and Influenza of Avian Origin in Mammals Order
- General Orders
- Foot and Mouth disease Orders
- Swine Vesicular disease Orders
- Tuberculosis Orders

1.54% (1:65)
3.34% (1:30)
0.1% (1:1100)
2.0% (1:50)
10.0% (1:10)



Composition

- Chloro-m-cresol (CMK) 12.0% (w/w)
- Ortho phenylphenol (OPP) 12.0% (w/w)
- Excipients: acetic acid, anionic surfactant, chelating agent

Physical and Chemical Properties

- Appearance: brown liquid
- Odour: acidic
- Density: 1.09 g/cm³ (20 °C)
- pH of 1% solution: 2.5-3.0

Product Presentations

- 5 litres and 20 litres

Shelf Life

- Concentrate: 3 years
- 0.25% - 1% solutions: 7 days

Application & Use Guidance

Disinfection Task	Dilution Rate	Application
Routine general pre-cleaned surface and equipment	0.5% - 1.0% (1:200 – 1:100)*	In conditions of low soiling and temperatures of 20°C and above, apply Virkon® LSP solution at 0.5%. For all other conditions, use at 1%. Using a pressure washer or other mechanical sprayer, apply at a rate of 300 ml/m ² or to the point of "run-off". Allow a contact time of 30 minutes*. Equipment may be dipped in Virkon® LSP solution for a maximum of 60 minutes.
During disease challenge situations, boot dip & vehicle	1.0% (1:100)*	Use as instructed as per the routine general farm application guide above.
Thermal fogging	13% Virkon® LSP mixed with 9% monopropylene glycol (MPG)	Fill the required volume into a suitable thermal fogging machine and apply at a rate of 15.5 ml/m ³ (equivalent to 2.0 ml/m ³ of Virkon® LSP concentrate) Direct the nozzle of the fogger into the building, with the air intake situated outside of the building, and activate. Leave the building closed for a minimum of 60 minutes and allow mist to fully disperse before re-entering. Wait 24 hours before introducing animals.

*For UK DEFRA applications, follow the UK DEFRA approved application rates and use a minimum contact time of 30 minutes.



Virucidal Efficacy Data

Viruses/Diseases	Method	Dilution Rate	Time (min)	Temperature	Soiling
African swine fever (ASF)	EN 14675	0.25%	1	10 °C	High
Avian influenza (AI) H3N2	US EPA	0.25%	10	20 °C	High
Avian influenza (AI) H5N1	US EPA	0.1%	10	21 °C	High
Avian influenza (AI) H3N8	EN 14675	0.25%	5	10 °C	Low
Avian influenza (AI) H5N8	EN 14675	0.20%	1	10 °C	High
Bovine enterovirus (ECBO)	EN 14675	1%	10	10 °C	Low
Bovine viral diarrhoea (BVD)	US EPA	0.5%	10	20 °C	High
Foot and mouth disease (FMD)	UK DEFRA	0.09%	30	4 °C	Low
Infectious bronchitis (IB)	US EPA	0.25%	10	5 °C	High
Infectious bursal disease (IBD or Gumboro)	US EPA	1.33%	60	20 °C	High
	US EPA	2.0%	10	20 °C	High
Infectious laryngotracheitis (ILT)	US EPA	0.25%	10	10 °C	High
Newcastle disease (ND)	US EPA	0.16%	10	20 °C	High
Porcine epidemic diarrhea (PED)	US EPA	0.16%	10	20 °C	High
Porcine reproductive and respiratory syndrome (PRRS)	US EPA	0.16%	10	20 °C	High
Swine influenza (SI)	US EPA	0.25%	10	20 °C	High
Swine rotavirus	EN 14675	0.5%	10	20 °C	High
Swine senecavirus	EN 14675	0.25%	10	20 °C	High
Swine vesicular disease (SVD)	UK DEFRA	2.0%	10	4 °C	Low

Bactericidal Efficacy Data

Bacteria	Method	Dilution Rate	Time (min)	Temperature	Soiling
<i>Campylobacter jejuni</i>	EN 1656	0.5%	10	20 °C	High
<i>Clostridium perfringens</i>	EN 13704	0.5%	30	20 °C	High
<i>Enterococcus hirae</i>	EN 14349	1.0%	30	10 °C	High
<i>Escherichia coli</i>	EN 1656	0.25%	10	20 °C	Low
<i>Klebsiella pneumoniae</i>	EN 1656	1.0%	10	10 °C	Low
<i>Mycoplasma bovis</i>	AOAC	0.5%	10	21 °C	High
<i>Mycoplasma hyopneumoniae</i>	AOAC	0.5%	10	10 °C	High
<i>Pseudomonas aeruginosa</i>	EN 14349	0.5%	30	10 °C	High
<i>Pseudomonas aeruginosa</i> biofilm	Biofilm ASTM E2799-12	0.25%	60	20 °C	n/a
<i>Salmonella</i> Enteritidis	EN 1656	0.75%	10	20 °C	High
<i>Salmonella</i> Infantis	EN 14349	0.5%	30	10 °C	High
<i>Salmonella</i> Typhimurium	EN 1656	0.5%	10	20 °C	High
<i>Staphylococcus aureus</i>	EN 14349	1.0%	30	10 °C	High
<i>Staphylococcus hyicus</i>	EN 14349	0.5%	30	20 °C	High
<i>Streptococcus suis</i>	AOAC	0.5%	10	20 °C	High

Fungicidal & Yeasticidal Efficacy Data

Fungi & Yeasts	Method	Dilution Rate	Time (min)	Temperature	Soiling
<i>Aspergillus brasiliensis</i>	EN 16438	3.0%	30	10 °C	Low
	EN 16438	1.5%	60	10 °C	Low
<i>Aspergillus fumigatus</i>	EN 16438	1.5%	30	10 °C	Low
	EN 16438	1.0%	60	10 °C	Low
<i>Trichophyton mentagrophytes</i>	AOAC	0.5%	10	21 °C	High
<i>Candida albicans</i>	EN 16438	0.75%	10	4 °C	Low

Mycobactericidal Efficacy Data

Mycobacteria	Method	Dilution Rate	Time (min)	Temperature	Soiling
<i>Mycobacterium terrae</i>	EN 14204	1%	30	10 °C	Low
<i>Mycobacterium avium</i>	EN 14204	1%	30	10 °C	Low

NB: *Mycobacterium terrae* is a surrogate for *Mycobacterium tuberculosis* and *Mycobacterium avium* for *Mycobacterium* species in the veterinary area.

Thermal Fogging Efficacy Data

Pathogen	Species	Log Reduction	Method	Virkon® LSP Mixture	Application Rate	Time (min)
Bacteria	<i>Pseudomonas aeruginosa</i>	≥5 log R	EN 17272	13% Virkon® LSP, 78% water, 9% MPG	15.5 ml/m³	60
	<i>Staphylococcus aureus</i>					
	<i>Escherichia coli</i>					
	<i>Enterococcus hirae</i>					
	<i>Proteus hauseri</i>					
Viruses	Poliovirus type 1	≥4 log R				
	Bovine enterovirus (ECBO)					
Yeasts	<i>Candida albicans</i>	≥4 log R				



Poultry Production Usage Chart

Floor Space	Total Surface Area	Volume of Virkon® LSP 1% Solution	Volume of Virkon® LSP Concentrate
1000 m²	2500 m²	750 litres	7.5 litres



Pig Production Usage Chart

Number of Pigs	Total Surface Area	Volume of Virkon® LSP 1% Solution	Volume of Virkon® LSP Concentrate
Per 10 sows	240 m²	72 litres	720 ml
Per 100 weaners	150 m²	45 litres	450 ml
Per 100 fatteners	300 m²	90 litres	900 ml

Thermal Fogging Disinfection Chart



Floor Space	Total Building Volume	Volume of Virkon® LSP 13% Solution	Volume of Virkon® LSP Concentrate	Volume of Water	Volume of MPG
1000 m²	3000 m³	46.5 litres	6 litres	36.3 litres	4.2 litres

The specified uses and registered claims for Virkon® LSP may vary from country to country. Please contact LANXESS directly to verify country-specific approved usages.

Personal Protective Equipment (PPE)

Always use PPE when handling and applying chemical concentrates and in-use solutions:

- Coverall - chemical risk type 4 single use
- Chemical resistant boots
- Protective glasses or complete face mask
- Nitrile gloves EN374
- Half mask - with canisters ABEK P

Please check the product Safety Data Sheet (SDS) for more information on PPE.



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