



# NOTICE TO INDUSTRY 13

## Approved disinfectants for horse pre-export quarantine facilities

### Introduction

This document lists disinfectants approved by the Department of Agriculture, Fisheries and Forestry (the department) for use in horse pre-export quarantine (PEQ) facilities and the parameters for their use.

Horse diseases of biosecurity concern rely on appropriate disinfection of PEQ facilities, as part of Australia's biosecurity risk mitigation measures include:

- equine influenza (EI)
- equine herpesvirus-1 (EHV-1)
- equine viral arteritis (EVA).

In addition, appropriate disinfection of PEQ facilities also manages the risk of endemic diseases that could be present in the compound prior to the commencement of PEQ.

### Approval of disinfectants

The department provides approval of disinfectants for use in PEQ facilities, if it is satisfied that scientific research shows efficacy against EI, EHV-1 and EVA during routine surface disinfection.

Disinfectants *not* listed in this document are *not* permitted to be used in PEQ facilities under any circumstances, unless written approval has been provided by the department.

The efficacy of disinfectants is highly variable depending on the ambient conditions (specifically temperature) and how they are used. The disinfectants listed in this notice are approved for use in PEQ facilities, *only* when used in accordance with manufacturer's directions, when surfaces are free from contamination with organic material and the individual disinfectant parameters set out in this notice.

#### Notes:

- The availability of disinfectants is likely to vary between countries.
- The competent authority of the exporting country is responsible for identifying disinfectants proposed for use in PEQ facilities in the Standard Operating Procedure (SOP).
- The competent authority must notify the department if they wish to use a disinfectant in a manner other than that specified in the manufacturer's recommendations.

**Important:** Specific advice on disinfection products and decontamination procedures will be provided in cases of a disease outbreak or emergency surgery, as not all disinfectants will be appropriate in these circumstances.

## Approved PEQ disinfectants

The following table summarises the disinfectants that are approved by the department for use in PEQ.

Product Name	Type of disinfectant	Active ingredients	Dilution	Minimum contact time	Details of approved use
<b>1-Stroke Environ</b>	Phenol	2% para-tertiary-amylphenol, 8.5% ortho-benzyl-para-chlorophenol, 10% ortho-phenylphenol	1:256	10 min	<ul style="list-style-type: none"> <li>Clean, non-porous surfaces.</li> <li>Immersion or spray/wipe onto surface.</li> </ul>
<b>Alcohol</b>	Ethanol, isopropyl	70% ethanol; 70% isopropyl	70% alcohol spray or wipes	10 min	<ul style="list-style-type: none"> <li>Clean, non-porous surfaces.</li> <li>Immersion or spray/wipe onto surface.</li> <li>Disinfection of glasses, mobile phones and mobile phone cases, inside vehicle cabins and hands.</li> </ul>
<b>Anigene</b>	Quaternary ammonium compound (5 <sup>th</sup> gen)	17.48 g/kg didecyldimethylammonium chloride, 17.48 g/kg alkyl (C12-16) dimethylbenzyl ammonium chloride, 14.99g/kg N-(3-aminopropyl)-N-dodecylpropane-1,3-diamene	1:100	10 min	<ul style="list-style-type: none"> <li>Non-porous, metal, plastic, rubber and fibreglass surfaces only.</li> <li>Not suitable for disinfection of fabric or wood.</li> </ul>
<b>Astop</b>	Quaternary ammonium compound (4 <sup>th</sup> gen)	didecyldimethylammonium chloride	1:800	10 mins	<ul style="list-style-type: none"> <li>Clean, non-porous surfaces.</li> <li>Immersion or spray/swab surface.</li> <li>Only suitable during mild to warm weather conditions e.g. April to November in Tokyo, Japan.</li> <li>On trucks all year if diluted with warm water.</li> </ul>

Product Name	Type of disinfectant	Active ingredients	Dilution	Minimum contact time	Details of approved use
<b>Lysol Brand III</b>	Quaternary ammonium compound (1 <sup>st</sup> gen)	58% ethanol, 0.1% benzalkonium chloride	Aerosol spray or wipes  (no dilution required)	10 min	<ul style="list-style-type: none"> <li>Disinfection of glasses, mobile phones and mobile phone cases, inside vehicle cabins and hands.</li> </ul>
<b>Tek-Trol</b>	Phenol	4% para-tertiary-amylphenol, 10% ortho-benzyl-para-chlorophenol, 12% ortho-phenylphenol	1:256	10 min	<ul style="list-style-type: none"> <li>Clean, non-porous surfaces.</li> <li>Immersion or spray/wipe onto surface.</li> </ul>
<b>Virkon S</b>	Oxidising agent	494g/kg potassium peroxymonosulfate triple salt, 132g/kg sodium dodecyl benzene sulphonate, 15g/kg sodium chloride	1:100	10 min	<ul style="list-style-type: none"> <li>Effective on porous and non-porous surfaces. E.g. able to be used on fabric, wood and smooth surfaces.</li> <li>May be washed off after a minimum contact time of 10 minutes.</li> </ul>
<b>Virocid</b>	Quaternary ammonium compound (5 <sup>th</sup> gen)	17.06% alkyl dimethylbenzyl ammonium chloride, 7.8% didecylmethylammonium chloride, 10.725% glutaraldehyde	1:100	10 min	<ul style="list-style-type: none"> <li>Effective on porous and non-porous surfaces. E.g. able to be used on fabric, wood and smooth surfaces.</li> <li>Immersion, spraying, foaming, hot fogging.</li> <li>Effective between 4°C to 60 °C, or &lt;5°C when diluted with lukewarm water, or below freezing if combined with propylene glycol.</li> </ul>

**Note:** F10SC and Safe4 have all been assessed as NOT suitable for disinfection of surfaces and equipment in PEQ.