



NOTICE TO INDUSTRY 13

Approved disinfectants

Introduction

This document lists disinfectants that have been approved by the Department of Agriculture, Fisheries and Forestry (DAFF) for use in horse pre-export quarantine (PEQ) facilities and onshore facilities accepting horses imported from the northern hemisphere (including clearance facilities, class 7.12 Approved Arrangements, government post-arrival quarantine facilities for horses).

Appropriate disinfection of offshore and onshore facilities and transport vehicles used for imported horses are part of Australia's risk mitigation measures for equine diseases of biosecurity concern.

The following information is not applicable to horse imports from New Zealand or New Caledonia.

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.

Section 1: Approved offshore PEQ disinfectants

Offshore PEQ facilities have a range of disinfectants that have been approved for use, as listed in Table 1.

DAFF assesses and approves 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 Table 1 are *not* permitted to be used in PEQ facilities 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 Table 1 are approved for use in PEQ facilities, *only*:

- when used in accordance with manufacturer's directions, and
- when used in accordance with the individual disinfectant parameters set out in Table 1, and
- when surfaces are free from contamination with organic material.

Notes:

- The availability of disinfectants will 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

Table 1 - Approved PEQ disinfectants

The following table summarises the disinfectants that are approved for use in offshore PEQ facilities.

Product Name	Type of disinfectant	Active ingredients	Dilution	Minimum contact time	Details of approved use
1-Stroke Environ	Phenol	2% para-tertiary-amylphenol, 8.5% ortho-benzyl-para-chlorophenol, 10% ortho-phenylphenol	1:256	10 min	• Clean, non-porous surfaces. • Immersion or spray/wipe onto surface.
Alcohol	Ethanol, isopropyl	60-90% ethanol; 60-90% isopropyl	60-90% alcohol spray or wipes	10 min	• Clean, non-porous surfaces. • Immersion or spray/wipe onto surface. • Disinfection of glasses, mobile phones, non-porous phone cases, inside vehicle cabins and hands.
Anigene	Quaternary ammonium compound (5 th gen)	17.48 g/kg didecyltrimethylammonium chloride, 17.48 g/kg alkyl (C12-16) dimethylbenzyl ammonium chloride, 14.99g/kg N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	1:100	10 min	• Non-porous, metal, plastic, rubber and fibreglass surfaces only. • Not suitable for disinfection of fabric or wood.
Astop	Quaternary ammonium compound (4 th gen)	didecyltrimethylammonium chloride	1:800	10 mins	• Clean, non-porous surfaces. • Immersion or spray/swab surface. • Only suitable during mild to warm weather conditions e.g. April to November in Tokyo, Japan. • On trucks all year if diluted with warm water.
Lysol Brand III	Quaternary ammonium compound (1 st gen)	58% ethanol, 0.1% benzalkonium chloride	Aerosol spray or wipes (no dilution required)	10 min	• Disinfection of glasses, mobile phones and mobile phone cases, inside vehicle cabins and hands.
Tek-Trol	Phenol	4% para-tertiary-amylphenol, 10% ortho-benzyl-para-chlorophenol, 12% ortho-phenylphenol	1:256	10 min	• Clean, non-porous surfaces. • Immersion or spray/wipe onto surface.
Virkon S	Oxidising agent	494g/kg potassium peroxymonosulfate triple salt, 132g/kg sodium dodecyl benzene sulphonate, 15g/kg sodium chloride	1:100	10 min	• Effective on porous and non-porous surfaces. E.g. able to be used on fabric, wood and smooth surfaces. • May be washed off after a minimum contact time of 10 minutes.

Product Name	Type of disinfectant	Active ingredients	Dilution	Minimum contact time	Details of approved use
Virocid	Quaternary ammonium compound (5 th gen)	17.06% alkyl dimethylbenzyl ammonium chloride, 7.8% didecyl dimethyl ammonium chloride, 10.725% glutaraldehyde	1:100	10 min	• Effective on porous and non-porous surfaces. E.g. able to be used on fabric, wood and smooth surfaces. • Immersion, spraying, foaming, hot fogging. • Effective between 4°C to 60 °C, or <5°C when diluted with lukewarm water, or below freezing if combined with propylene glycol.

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

Section 2: Approved onshore disinfectants

Approved onshore disinfectants for use at clearances of imported northern hemisphere horses, class 7.12 facilities, and government quarantine facilities for horses are listed in Table 2.

The efficacy of disinfectants is highly variable depending on the ambient conditions (specifically temperature) and how they are used. The disinfectants listed in Table 2 are approved for use in clearance and post-arrival quarantine facilities, *only*:

- when used in accordance with manufacturer's directions, and
- when used in accordance with the individual disinfectant parameters set out in Table 2, and
- when surfaces are free from contamination with organic material.

Disinfectants *not* listed in Table 2 are *not* permitted to be used at clearances of imported northern hemisphere horses, class 7.12 facilities, and government quarantine facilities, unless written approval has been provided by DAFF.

Table 2 - Approved onshore disinfectants

The following table summarises the disinfectants that are approved for use in onshore facilities that are clearing or managing the quarantine of horses imported from the northern hemisphere.

Product Name	Type of disinfectant	Active ingredients	Dilution	Minimum contact time	Details of approved use
Alcohol	Ethanol, isopropyl	60-90% ethanol; 60-90% isopropyl	60-90% alcohol spray or wipes	10 min	• Clean, non-porous surfaces. • Immersion or spray/wipe onto surface. • Disinfection of glasses, simple jewellery, mobile phones, tablets, non-porous phone and tablet cases, sports watches with a simple and non-porous design, lunch boxes, inside vehicle cabins and hands.

Product Name	Type of disinfectant	Active ingredients	Dilution	Minimum contact time	Details of approved use
Virkon S	Oxidising agent	494g/kg potassium peroxymonosulfate triple salt, 132g/kg sodium dodecyl benzene sulphonate, 15g/kg sodium chloride	1:100	10 min	• Effective on porous and non-porous surfaces. E.g. able to be used on fabric, wood and smooth surfaces. • May be washed off after a minimum contact time of 10 minutes.
Virocid	Quaternary ammonium compound (5 th gen)	17.06% alkyl dimethylbenzyl ammonium chloride, 7.8% didecyl dimethylammonium chloride, 10.725% glutaraldehyde	1:100	10 min	• Effective on porous and non-porous surfaces. E.g. able to be used on fabric, wood and smooth surfaces. • Immersion, spraying, foaming, hot fogging. • Effective between 4°C to 60 °C, or <5°C when diluted with lukewarm water, or below freezing if combined with propylene glycol.