# Department of Agriculture, Fisheries and Forestry

# Broad Spectrum Disinfectants

## Suitable for immersion (dunk tanks) of surfaces and equipment at approved arrangement sites biosecurity containment levels 1-4 - classes 5, 6 and 7 (excluding class 7.10 – fertile poultry hatching eggs facilities and class 7.12 – live horses)

| **Types of broad spectrum chemical disinfectants** | **Approved active ingredients and examples of disinfectants** | **Facility type** | **Parameters for use**  **Note: Minimum parameters must be used** |
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| **Aldehydes** | Glutaraldehyde > 10%  e.g. Aidal Plus | Microbiological, Animal | * Glutaraldehyde – 2% undiluted solution * Immersion time – 30 minutes |
| **Quaternary ammonium compounds** | Benzalkonium chloride 54g/L, Polyhexamethylene Biguanide Hydrochloride 4g/L  e.g. F10SC | Microbiological, Animal | * F10SC * 1:500 2ml to 998ml of water * 1:250 4ml to 996ml of water * 1:125 8ml to 992ml of water. * Immersion time * 10 minutes – for high level disinfection (including fungal spores) * 30 minutes – high level - for resistant viruses and spores |
| **Quaternary ammonium compounds** | Benzalkonium chloride 54g/L, Polyhexamethylene Biguanide Hydrochloride 4g/L  e.g. F10SC | Plant | * F10SC * 1:125 8ml to 992ml of water * Immersion time – 30 minutes |
| **Quaternary ammonium compounds** | 4-Nonylphenol, branched, ethoxylated 1-5%, Sodium carbonate 1-5%, Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride 1-3%, Alkyl Dimethyl Benzyl Ammonium Chloride 1-3%  e.g. Microchem Plus | Microbiological, Animal | * Microchem Plus * 5% solution 50ml to 950ml of water * Immersion time – 20 minutes |

**Notes:**

* The above are disinfectants for use when decontaminating equipment, spillage areas or situations as directed by the Department of Agriculture, Fisheries and Forestry.
* Contact Avian Imports for advice on disinfectants for use at class 7.10 – fertile hatching eggs facilities, at [avianimports@aff.gov.au](mailto:avianimports@aff.gov.au).
* Contact Horse Imports for advice on disinfectants for use at class 7.12 – live horses, at [horses@aff.gov.au](mailto:horses@aff.gov.au).
* Biosecurity industry participants should also contact their respective State/Territory governments to check what chemicals are approved in their States/Territory.
* Equipment and surfaces should be cleaned and free from organic material and grease prior to any form of disinfection or decontamination.
* The parameters are minimum concentration rates and contact times. Chemicals must be applied in accordance with the label directions.
* Disinfectants that have the same active ingredients and equal parameters will not require approval from the department.
* Requests for disinfectant approval can be forwarded to [aa.canberra@aff.gov.au](mailto:aa.canberra@aff.gov.au).
* In times of disease outbreak emergencies, consult with your regional office for alternative sources of information in relation to specific diseases.

## Version control

Updates to this document will occur automatically on the department’s website and the revision table below will list the amendments as they are approved.

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| Date | Version | Amendments | Approved by |
| 16 July 2024 | 1.0 | Final version | Caroline Gibson |
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