## 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)

<table>
<thead>
<tr>
<th>Types of broad spectrum chemical disinfectants</th>
<th>Approved active ingredients and examples of disinfectants</th>
<th>Facility type</th>
<th>Parameters for use</th>
<th>Note: These are minimum rates only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aldehydes</td>
<td>Glutaraldehyde &gt; 10% e.g. Aidal Plus</td>
<td>Microbiological, Animal</td>
<td>• Glutaraldehyde – 2% undiluted solution</td>
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<td></td>
<td></td>
<td></td>
<td>• Immersion time – 30 minutes</td>
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<tr>
<td>Quaternary ammonium compounds</td>
<td>Benzalkonium chloride 54g/L, Polyhexamethylene Biguanide Hydrochloride 4g/L e.g. F10SC</td>
<td>Microbiological, Animal</td>
<td>• F10SC</td>
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<td></td>
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<td></td>
<td>– 1:500 (2ml) to 998ml of water</td>
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<td>– 1:250 (4ml) to 996ml of water</td>
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<td>– 1:125 (8ml) to 992ml of water</td>
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<td>• Immersion time – 10 minutes – for high level disinfection (including fungal spores)</td>
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<td>• 30 minutes – high level - for resistant viruses and spores</td>
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<tr>
<td>Quaternary ammonium compounds</td>
<td>Benzalkonium chloride 54g/L, Polyhexamethylene Biguanide Hydrochloride 4g/L e.g. F10SC</td>
<td>Plant</td>
<td>• F10SC</td>
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<td>– 1:125 (8ml) to 992ml of water</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>• Immersion time – 30 minutes</td>
<td></td>
</tr>
<tr>
<td>Quaternary ammonium compounds</td>
<td>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</td>
<td>Microbiological, Animal (Not approved for class 7.10 – fertile poultry hatching eggs facilities.)</td>
<td>• Microchem Plus</td>
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<td>– 5% solution</td>
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<td></td>
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<td></td>
<td>• Immersion time – 20 minutes</td>
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</tr>
</tbody>
</table>

### Notes:
- The above are disinfectants for use when decontaminating equipment, spillage areas or situations as directed by the Department of Agriculture and Water Resources.
- 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@agriculture.gov.au.
• In times of disease outbreak emergencies, consult with your regional office for alternative sources of information in relation to specific diseases.