



## Broad Spectrum Disinfectants

Suitable for disinfection of surfaces and equipment at  
Approved Arrangements (AA) sites (classes 1, 2, 3, 4, 8 and 10)

Types of broad spectrum chemical disinfectants	Approved active ingredients and examples of disinfectants	Type of approved arrangement	Parameters for use Note: These are minimum rates only
<b>Oxidizing Agents</b>	Pentapotassium bis (peroxymonosulphate) 40-55% Sodium C10-13-alkylbenzenesulfonate 10-12% Malic acid 7-10% Sulphamidic acid 4-6%  e.g. Virkon	<ul style="list-style-type: none"> <li>Classes 1, 2, 3, 4, 8 and 10</li> </ul>	<ul style="list-style-type: none"> <li>Virkon – 10g to 1 litre of water</li> <li>Contact time - 10 minutes.</li> </ul>
<b>Quaternary ammonium compounds</b>	Benzalkonium chloride 10- <30%)  e.g. Powerquat	Class 3.0 (plant processing)	<ul style="list-style-type: none"> <li>Powerquat – 125ml to 19,875ml (litres) of water</li> <li>Contact time - 5 minutes.</li> </ul>
<b>Alkalis</b>	Caustic soda NaOH (2% solution)  e.g. Sodium hydroxide	Class 2.6	<ul style="list-style-type: none"> <li>Sodium hydroxide - 20g (2%) to 1 litre of water</li> <li>Contact time - 10 minutes.</li> </ul>
<b>Acids</b>	Citric acid 3-10% Alkyl alcohol alkoxylate 3-10%  e.g. Suma Crystal A8	Class 2.6	<ul style="list-style-type: none"> <li>Suma Crystal - 2.86 % w/v (28.6-29g) to 1 litre of water</li> <li>Contact time - 30 minutes.</li> </ul>
<b>Halogen</b>	Chlorine  e.g. Sodium hypochlorite	<ul style="list-style-type: none"> <li>Classes 1, 2, 3, 4, 8 and 10</li> </ul>	<ul style="list-style-type: none"> <li>Sodium hypochlorite – 1% available chlorine – 200ml to 800ml of potable water</li> <li>Contact time – 10 minutes</li> <li>Sodium hypochlorite – -1% available chlorine – 200ml to 800ml of non-potable water (ph of 6-8)</li> </ul> <p>Note: Care should be taken when diluting these solutions to ensure a final working concentration of 1% is achieved. These calculations are based on using a 5% sodium hypochlorite product. If using 4% sodium hypochlorite product, adjust accordingly.</p>



**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](mailto: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.