



## Accelerated Hydrogen Peroxide® (AHP®) versus QUAT and Glutaraldehyde

AHP® removes the need to compromise between efficacy and safety by providing a balance between killing a broad spectrum of pathogens while remaining gentle for users, animals, materials and the environment.

- AHP® is essentially non-toxic and non-irritating (in use solution) and does not require the use of Personal Protective Equipment (PPE), giving assurance that animal and human health will not be jeopardized
- AHP® provides contact times that are two times faster providing confidence that disinfection has been achieved
- AHP® is biodegradable. Hydrogen Peroxide breaks down into water and oxygen reducing environmental impact.

### KEY PRODUCT CHARACTERISTICS:

Unlike QUATS and Glutaraldehyde, AHP® is non-toxic ensuring that humans, animals and the environment will not be negatively impacted. Unlike QUATs, there is no concern over loss of efficacy due to negative reactions with commonly used cleaning substrates (e.g. QUAT Binding).

|                             | Accelerated Hydrogen Peroxide®                                    | QUATs & Glutaraldehyde        |
|-----------------------------|---|-------------------------------|
| <b>Active Ingredient</b>    | 0.5%-4.25% Hydrogen Peroxide                                      | 26% QUAT<br>7% Glutaraldehyde |
| <b>In Use Concentration</b> | 300ppm – 5000ppm  | 1015ppm Quat / 275ppm Glut    |
| <b>Shelf Life</b>           | 2 - 3 Years (Concentrate or Ready to Use)<br>30 - 90 Days Diluted | Not available                 |

### CLEANING EFFECTIVENESS:

AHP® utilizes both anionic and non-ionic surfactants within its formulation. Anionic surfactants have superior cleaning abilities as the electrical charge of anionic surfactants interacts better with soil particles allowing for easier removal. In addition, non-ionic surfactants help in preventing redeposition of soils that have been lifted off the surface.

|                             | Accelerated Hydrogen Peroxide® | QUATs & Glutaraldehyde |
|-----------------------------|--------------------------------|------------------------|
| <b>Contains Surfactants</b> | Yes (anionic and non-ionic)    | Yes (cationic)         |

### EFFICACY PROFILE:

AHP® is proven to deliver superior kill performance; contact times are two times faster which ensures compliance that disinfection has been achieved. AHP® products have been proven effective against a broad-spectrum of pathogens, giving you confidence that your facility is protected against pathogens of concern.



|                                 | Accelerated Hydrogen Peroxide® | QUATs & Glutaraldehyde |
|---------------------------------|--------------------------------|------------------------|
| <b>Broad-Spectrum Sanitizer</b> | Yes<br>30 seconds – 3 minutes  | No                     |
| <b>Bactericidal</b>             | Yes<br>1 minute - 5 minutes    | Yes<br>10 minutes      |
| <b>Enveloped Viruses</b>        | Yes<br>30 seconds - 5 minutes  | Yes<br>10 minutes      |
| <b>Non-Enveloped Viruses</b>    | Yes<br>30 seconds - 5 minutes  | Yes<br>10 minutes      |
| <b>Fungi</b>                    | Yes<br>30 seconds - 5 minutes  | Yes<br>10 minutes      |

**TOXICITY PROFILE:**

AHP® formulations have proven to be essentially non-toxic and non-irritating (in use solution) which gives assurance that animal and human health will not be jeopardized.

|  | Accelerated Hydrogen Peroxide®  | QUATs & Glutaraldehyde            |
|--|---------------------------------|-----------------------------------|
| <b>Personal Protective Clothing</b>                              | <b>In Use: PPE Not Required</b> | <b>In Use: Goggles and Gloves</b> |
| <b>Essentially Non-Irritating to Eye at the Use Dilution</b>     | Yes                             | No                                |
| <b>Essentially Non-Irritating to Skin at the Use Dilution</b>    | Yes                             | No                                |
| <b>Lowest EPA Inhalation Toxicity Rating at the Use Dilution</b> | Yes                             | No                                |

**ENVIRONMENTAL PROFILE:**

The active ingredient used in all AHP® formulations is biodegradable, as hydrogen peroxide breaks down into water and oxygen reducing environmental impact and improving the environment for animals and those who care for them. Quats have been known to bioaccumulate in the environment and leave behind toxic residues which can lead to the development of antibiotic resistance. Glutaraldehyde is highly toxic to algae and moderately toxic to aquatic animals indicating that caution should be taken to avoid environmental contamination.

|                                  | Accelerated Hydrogen Peroxide® | QUATs & Glutaraldehyde |
|----------------------------------|--------------------------------|------------------------|
| <b>VOC Free</b>                  | Yes                            | No                     |
| <b>Environmentally Preferred</b> | Yes                            | No                     |