Accelerated Hydrogen Peroxide® (AHP®) versus Phenols

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® essentially non-toxic and non-irritating (in use solution) and does not require the use of Personal Protective Equipment, giving assurance that animal and human health will not be jeopardized
- AHP® provides contact times that are two times faster against a broad spectrum of pathogens providing confidence that disinfection has been achieved
- AHP® is biodegradable. Hydrogen Peroxide breaks down into water and oxygen without the threat of producing harmful by-products thus reducing environmental impact

KEY PRODUCT CHARACTERISTICS:

Unlike Phenols, AHP® does not leave any active residues behind on surfaces so occupants are not exposed to toxic chemicals, such as carcinogens. Furthermore this active residue can lead to the development of pathogen resistance.

	Accelerated Hydrogen Peroxide®	**Phenols**
Active Ingredient	0.5%-4.25% Hydrogen Peroxide	17.5%-20.5%
In Use Concentration	300ppm to 5000ppm	700ppm – 1600ppm
Shelf Life	2 - 3 Years (Concentrate or Ready to Use) 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®	**Phenols**
Contains Surfactants	Yes (anionic and non-ionic)	No

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	**Phenols**

	Peroxide®	
Broad-Spectrum Sanitizer	Yes 30 seconds – 3 minutes	No
Bactericidal	Yes 1 minute - 5 minutes	Yes 10 minutes
Enveloped Viruses	Yes 30 seconds - 5 minutes	Yes 10 minutes
Non-Enveloped Viruses	Yes 30 seconds - 5 minutes	Yes (Product Dependant) 10 minutes
Fungi	Yes 30 seconds - 5 minutes	Yes 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. Phenols are known to be both direct and non-direct carcinogens.

	Accelerated Hydrogen Peroxide®	**Phenols**
Personal Protective Clothing	**In Use:** PPE Not Required	**In Use:** Goggles and Gloves
Essentially Non-Irritating to Eye at the Use Dilution	Yes	No
Essentially Non-Irritating to Skin at the Use Dilution	Yes	No
Lowest EPA Inhalation Toxicity Rating at the Use Dilution	Yes	No

ENVIRONMENTAL PROFILE:

The active ingredient in all AHP® formulations are 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. Phenols are known to be extremely reactive chemicals and when degrade can leave toxic by-products, some of which may bioaccumulate in the environment or have high aquatic toxicity.

	Accelerated Hydrogen Peroxide®	**Phenols**
VOC Free	Yes	Yes
Environmentally Preferred	Yes	No