

SWG[®] Biocide

SWG[®] Biocide: A Fast-acting, Effective Disinfectant

SWG[®] Biocide is an EPA-registered product for disinfection of poultry water lines and for the removal of biofilm deposits in water transfer lines.

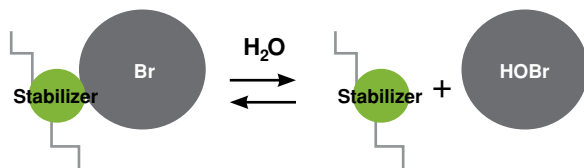
BENEFITS

- Disinfects Gram-negative organisms
- Effective, low-cost solution
- Short in-line time
- Non-combustible / non-flammable
- Easy-to-use — no premixing required
- Low to no odor
- Low-volume application, injected at 1:128 (1oz/gallon)

HOW SWG BIOCIDE WORKS

Of the 18 percent active ingredient, 80 percent is bromosulfamate and 20 percent is chlorosulfamate. Sulfamate is a stabilizing agent and backbone of the product. Hypobromous acid (HOBr) is the active oxidizer that kills the bacteria and removes biofilms. As the stabilized product comes into contact with the biofilm (demand), it releases the active compound HOBr, allowing a very controlled reaction throughout the entire water transfer system.

Controlled Reactivity



Active Oxidizer

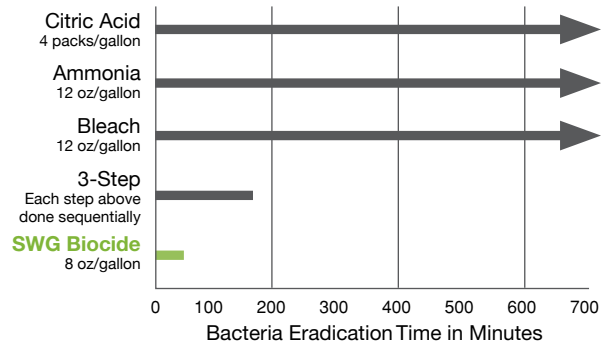
EFFICACY

SWG Biocide can be used to remove and control biofilm deposits and other organic contaminants in industrial tanks, pumps and in piping and tubing associated with water transfer lines and systems.*

SWG Biocide can also be used to disinfect Gram-negative organisms in tanks, pumps and medicators used to deliver the product, piping and tubing associated with water lines in livestock and poultry housing facilities. The water lines can be used for delivering drinking water, air chiller water and cooling spray.

*Not for use in food processing equipment, human drinking water systems or dental lines.

Efficacy Testing by Modified AOAC Dilution¹



- 1) Test involved dried salmonella on stainless steel carriers
- 2) All test material solutions above were further diluted to 1:128
- 3) Citric Acid, Ammonia and Bleach continued to show growth until 1400 minutes

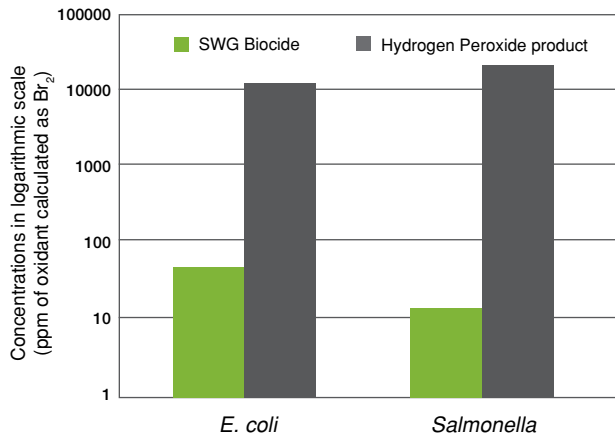
EFFICACY OF SWG BIOCIDES VS. HYDROGEN PEROXIDE PRODUCT USING MODIFIED AOAC DILUTION²

SWG Biocide				Hydrogen Peroxide product			
Concentrations Tested (ppm)							
25	50	100	200	125	250	500	1000
+	+	-	-	+	+	+	+

1) Contact for each treatment was 10 minutes
 2) Use dilution test with salmonella

+ = Growth
- = No Growth

SWG Biocide Needed to Obtain Complete Kill of a 3-day Biofilm Grown in 96-well Plates³



PRODUCT CLASSIFICATION

When choosing a product for your operations, it is important to understand that **classification matters**. Selecting a product for its intended purpose is critical, and you need to understand how your products work to get the highest return on investment for the dollar spent.

Classification	Description
Cleaning product	Cleans away or removes inanimate material (heavy soils) from a surface. Makes no pesticidal claims.
Sanitizer	Reduces the bacterial population in the inanimate environment by significant numbers (e.g., 3 _{Log} reduction or more), but does not destroy or eliminate all bacteria.
Disinfectant – SWG Biocide	Destroys or irreversibly inactivates bacteria, fungi and viruses, but not necessarily bacterial spores, in the inanimate environment.
Sterilant	Destroys or eliminates all forms of microbial life in the inanimate environment, including all forms of vegetative bacteria, bacterial spores, fungi, fungal spores and viruses.

For questions or to learn more about the Passport

Food Safety Solutions product portfolio, call **515-334-8035** or visit **www.passportfoodsafety.com**.

¹Albemarle Corporation. Data on file.
²Albemarle Corporation. Data on file.
³Albemarle Corporation. Data on file.

The sales and delivery of Passport Food Safety Solutions food safety products will be expressly governed by and subject to the limited product warranty and other terms and conditions of sale available at www.PassportFoodSafety.com

Always read and follow label instructions, including directions for use, warnings and cautions.

Passport® is a trademark owned by Passport Food Safety Solutions, Inc.
 SWG® Biocide is a trademark owned by Albemarle Corporation.
 © 2017 Passport Food Safety Solutions, Inc. All rights reserved.
 FDFS 37192-3

