KEM SAN® brand Liquid Antimicrobial

Water is the most essential nutrient of an animal’s diet. Water is consumed twice as much as feed at normal temperature. Water is involved in virtually every physiological process. However, water may easily be contaminated by pathogens that can compromise animal health and performance. This is why a proper water sanitation program is required.

Kemin’s KEM SAN® brand Liquid Antimicrobial is a unique combination of the most effective organic acids balanced by their individual pKa’s over an optimal pH range.

This winning combination ensures wholesome drinking water for poultry and livestock and helps the animal respond in a positive manner to stress. KEM SAN® brand Liquid Antimicrobial acts as an acidifier by lowering the pH of the water as well as the ingesta as a result of consumption. KEM SAN® brand Liquid Antimicrobial is active in the upper gastrointestinal tract of the animal, where bacteria can have a negative impact. This winning combination helps the animal respond in a positive manner to stress and helps the intestinal villi perform optimally for nutrient absorption.

In commercial field trials, poultry and livestock that consume water treated with KEM SAN® brand Liquid Antimicrobial exhibit better health, increased livability, better growth and improved productivity. Based on these metrics, KEM SAN® brand Liquid Antimicrobial provides a measurable return on investment for poultry and livestock operations.

FEATURES & BENEFITS

• EPA registered (No. 8596-31)
• Proven to inhibit a broad spectrum of pathogenic bacteria apart from chlorine
• Buffered to a pH of 4.7 - 5.7
• Removes biofilm and mineral deposits that can slow water consumption
• Proven to reduce the potential for cross-contamination in the processing plant and reduce plant condemnations
• Promotes food safety and increases profitability
• No drug residues, no withdrawal period, safe for animals
TRIAL RESULTS:

**Improved Feed Conversion in Broilers**

- **FCR**
  - KEM SAN: 1.77
  - Control: 1.88

**Reduced Mortality in Nursery Pigs**

- **% Mortality**
  - KEM SAN: 2.40%
  - Control: 3.86%

*a. KEM SAN Liquid Antimicrobial* was provided using a 33% stock solution. The water lines were shocked with a 50% KEM SAN solution before the flock was placed.

*b. KEM SAN Liquid Antimicrobial* was provided using a 10% stock solution throughout the nursery period.

APPLICATION GUIDELINES:

**Drinking Water**

Use 1/3 fluid ounce per gallon of water under normal conditions.
Use 1-1/2 fluid ounces per gallon of water when water contains high bacterial contamination.
Use 1/2 fluid ounce per gallon of water to clean water lines.

**Poultry Litter, Feed, Silage Storage and Grain Storage**

Please refer to the product label for specific instructions.

**Other Usage**

- Sanitizing the water lines prior to loading animals
- Cleaning the lines the day before water vaccination or supplement
- In both cases, a proper flushing method is required to avoid clogging

PACKAGING AND CONDITIONING:

This product is available in 50 lb. pails, 450 lb. drums, 2,000 lb. totes and bulk packaging. Product should be stored in a warm, dry place above 40° Fahrenheit to prevent freezing.

Please contact your Kemin representative for personalized support.