

## Bios AK-9

### Description

**Bios AK - 9** is a formaldehyde-free, VOC-free, fast-acting, effective, liquid in-can preservative with a broad - spectrum of activity against bacteria, yeasts and molds, designed for protection of aqueous systems. It provides an excellent headspace protection. Intended for use in aqueous products with a range of pH 3-9.

### NOTE!!!

**Bios AK - 9** must be added in 45 - 47°C to the product (Process) and more than this temperature isn't allowed. Maximum temperature for thermal stability is 50°C.

Specification	
Appearance	Clear Watery Liquid
Nature	5-Chloro-2-Methyl -4- Isothiazolin-3-One 2-Methyl-4- Isothiazolin- 3-One
Chemical Formula	C <sub>4</sub> H <sub>4</sub> ClNOS ; C <sub>2</sub> H <sub>5</sub> NOS
pH	4.5 ± 1
Density, gr/cm <sup>3</sup>	1.01

### Applications

**Bios AK - 9** is a microbiocide that is effective against bacteria, yeasts, molds and algae. It is used as an industrial microbiocide

for adhesives, building materials, pigment dispersions, emulsions, paints and coatings. Isothiazoline derivatives are effective biocides (antiseptic agents, preservatives, bactericides, slimicides, and fungicides).

The biggest application is in paint industry especially marine antifouling agent.

**Bios AK - 9** is widely used in adhesives, cutting oils, water systems, cosmetics, household goods and wound protectant for pruning cuts. They are also used as pulp and wood impregnating agents as well as in leather, fur and polymer process.

It is best if **Bios AK - 9** is added to the initial phase of production; however, if excessive temperatures or pH values occur, addition at the end of the manufacturing process is recommended.

Typical usage rates are 0.01-0.30% grm per ltrs based on the total weight of the formulation.

### Product Handling, Storage and Shelf Life

To ensure safe storage of this product, containers should be well sealed to prevent water evaporation and skin forming. The product must be stored between 5-25°C for maximum 6 months.

Freezing and direct sun light must be avoided.



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