

# NUOSEPT® BM21

## Wet-State Preservative

Paints & Coatings/US

EPA Registration No.: 5383-229

Nuosept® BM21 is a broad-spectrum wet-state preservative based on a combination BIT and MIT, with efficacy against bacteria and fungi. Nuosept® BM21 is free of formaldehyde, formaldehyde releasers, VOC, and AOX.

### Application & Use

Nuosept® BM21 is useful for the protection of various waterborne systems such as paints, household products, adhesives, emulsions, concrete admixtures, and the like. The preservative can be used in formaldehyde-free systems or if an adaptation occurs against pure formaldehyde adducts.

This product is suitable for systems with a pH of 2 - 10 and at a temperature up to 80°C.

### Product Highlights

- Broad-spectrum protection
- Free of formaldehyde
- Free of VOC
- Cost-effective
- Wide pH range

### Physical Properties

The following are typical properties of Nuosept® BM21; they are not to be considered product specifications.

<b>Appearance:</b>	Slightly green to yellow liquid
<b>Specific Gravity, 25°C:</b>	1.04
<b>pH (as is)</b>	9
<b>Viscosity, 25°C</b>	Kinematic (room temperature): 0.01271 to 0.01301 cm <sup>2</sup> /s (1271 to 1.301 cSt)

### Active Substance

5.0%	1,2-Benzisothiazolin-3(2H)-one	BIT	 <p><b>BIT</b> C<sub>7</sub>H<sub>5</sub>NOS</p>
2.5%	2-Methyl-4-isothiazolin-3-one	MIT	 <p><b>MIT</b> C<sub>4</sub>H<sub>5</sub>NOS</p>

## Function/Activity

The level required to protect any particular system depends on a variety of factors, including the initial level of microbiological contamination, the components of the system, the likelihood of exposure to repeat microbiological intrusions, residual reducing and oxidizing agents, and the temperature and pH of the system. Suggested use levels should be verified by field trials of the end-use product.

Function	% Wt/Wt
Paints, Coatings, & Stucco	0.050 - 0.250%
Mineral & Pigment Slurries	0.015 - 0.150%
Detergents & Household Cleaners	0.006 - 0.200%
Adhesives and Tackifiers	0.050. - 0.250%
Oil-in-Water Emulsions	0.015. - 0.150%
In-Container	0.025 - 0.250%
Building Materials	0.050 - 0.250%
Metalworking Fluids	0.075 - 0.250%

## Formulating Considerations

Nuosept® BM21 should be added with good agitation or mixing and can be added at any stage of the production process.

Due to various possibilities of application and different methods of processing, it is advised to check compatibility in the development of new products. Contact your Arxada representative for assistance.

Shelf-life is 12 months from date of manufacture.

## Packaging

Nuosept® BM21 is packaged in:

Package Type	Net Weight
Pail	40 lbs / 18 kg
Large Drum	463 lbs. / 210 kg.
Tote	2204 lbs. / 997 kg.

## Product Safety & Additional Information

For handling, storage, health, and safety information and disposal procedures, as well as additional information, please refer to the Safety Data Sheet (SDS) and label.



For more information visit:  
[www.arxada.com](http://www.arxada.com)

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