

NUOSEPT® 95

Wet-State Preservative

Paints & Coatings/US

EPA Registration No.: 5383-164

Nuosept® 95 is an aqueous solution of organic compounds designed for use as a preservative in water-based products.

Application & Use

Nuosept® 95 effectively prevents deterioration and spoilage during the manufacture, storage, and service of products such as latex paints, latex emulsions, pigment dispersions and slurries, inks, adhesives, caulks, sealants, metalworking fluids, textile fiber-finish solutions, paper coatings (must be limited to dry foods), drilling muds, and flooding fluids.

This product is suitable for systems with a pH of 5 - 10 and at a temperature up to 60°C.

Product Highlights

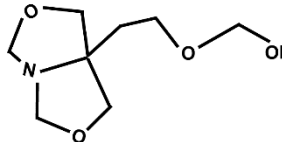
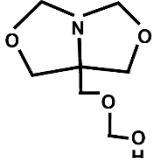
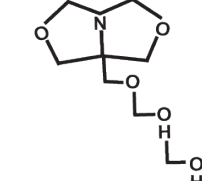
- High performance broad-spectrum protection
- Neutral pH for ease of incorporation into certain systems
- Approved for use in US and Canada
- Low odor
- Non-yellowing
- Cost-effective

Physical Properties

The following are typical properties of Nuosept® 95; they are not to be considered product specifications.

Appearance:	Colorless
Specific Gravity, 25°C:	1.1 - 1.2
pH (as is)	6.0- 7.5
Odor	Mild, characteristic
Flash Point (Pensky-Martens)	Closed cup: >100°C

Active Substance

28.8%	5-Hydroxymethyl-1-aza-3, 7 - dioxabicyclo - (3.3.0) octane		$C_7H_{13}NO_4$
16.0%	Hydroxymethoxymethyl-1aza-3,7-dioxabicyclo-(3.3.0) octane		$C_7H_{13}NO_4$
5.2%	5-Hydroxypoly (methyleneoxy (74% C2, 21% C3, 4% C4, 1% C5)methyl-1-aza-3, 7-dioxabicyclo-(3.3.0) octane		

Function/Activity

For systems in which water is a primary component, Nuosept® 95 will generally impart preservative properties at use levels of 0.10% - 0.30% by weight based on finished formulation weight. 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
Adhesives (Natural-based)	0.20 - 0.50%
Adhesives (Synthetic)	0.10 - 0.50%
Caulks	0.10 - 0.50%
Drilling Muds	0.05 - 0.20%
Flooding Fluids	0.01 - 0.10%
Latex Emulsions	0.05 - 0.30%
Wax Emulsions	0.20 - 0.30%
Latex Paints	0.10 - 0.40%
Inks	0.10 - 0.50%
Paper Coatings	0.10 - 0.50%
Pigment Dispersions	0.10 - 0.30%
Pigment Slurry	0.05 - 0.10%
Sealants	0.10 - 0.50%
Metalworking Fluids	0.10 - 0.20%
Textile Fiber Finish	0.05 - 0.10%

Formulating Considerations

The active components of Nuosept® 95 are generally not stable under highly oxidizing or reducing conditions. In systems with high susceptibility for fungal contamination, the use of a low dosage of a fungicide, such as Polyphase® 678 or Polyphase® PW40, may be necessary.

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® 95 is packaged in:

Package Type	Net Weight
Pail	40 lbs / 18 kg
Large Drum	475 lbs / 215 kg
Tote	2800 lbs / 1270 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

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