

MERGAL® K10N

Industrial Preservative

Paints & Coatings/US

EPA Registration No.: 5383-107

Mergal® K10N is a microbiostat wet-state preservative provided in a VOC-free solution. It is designed to inhibit growth of bacteria, yeast, and fungi in aqueous-based formulations.

Application & Use

Mergal® K10N is useful in systems such as polymer emulsions, paints, coatings, caulks, sealants, adhesives, thickeners, joint cements, pigment and mineral slurries, metalworking fluids, oil-water emulsions, textile coatings, and inks. Mergal® K10N is suitable for use in a wide range of applications and conditions. Since Mergal® K10N contains no organic solvents, it is especially suited for applications in which VOC is a concern.

This product is suitable for systems with a pH of 3 - 13 and at a temperature up to 200°C.

Product Highlights

- Long-lasting broad-spectrum protection
- Solvent- & surfactant-free
- Highly heat resistant, pH stable, and stable in presence of amines
- FDA clearances
- Globally approved active ingredient
- Free of VOC & formaldehyde

Active Substance

9.5%	1,2-Benzisothiazolin-3(2H)-one	BIT	 <p>BIT C₇H₅NOS</p>
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Physical Properties

The following are typical properties of Mergal® K10N; they are not to be considered product specifications.

Appearance:	Slightly yellow to brown liquid
Specific Gravity, 25°C:	1.0 - 1.1
pH (as is)	>11.5
Solubility	Completely soluble in water

Function/Activity

The actual use level of Mergal® K10N necessary for optimum efficacy is determined by the individual composition and use patterns of the final system. In most aqueous systems, a use level of 0.10% to 0.50% by weight of finished formulation weight is generally sufficient. Arxada suggests that all formulation ingredients be evaluated for efficacy and stability in each product prior to commercial application.

Function	% Wt/Wt
Polymer Emulsions & Dispersions	0.05 - 0.50%
Coatings	0.05 - 0.50%
Caulks	0.05 - 0.50%
Sealants	0.05 - 0.50%
Adhesives	0.05 - 0.50%
Mineral & Pigment Slurries	0.05 - 0.50%
Oil-water Emulsions	0.05 - 0.50%
Spin Finish Solutions for Textile Industries	0.05 - 0.50%
Inks	0.05 - 0.50%
Metalworking Fluids	0.05 - 0.50%
Thickeners	0.05 - 0.50%
Joint Cements	0.05 - 0.50%
Paints & Plasters	0.05 - 0.50%

Formulating Considerations

Mergal® K10N is a liquid product and can be added at any stage of the manufacturing process. The presence of strong oxidizing agents may result in the degradation of the actives.

The active in Mergal® K10N is chemically compatible with most other in-container preservatives, such as CMIT/MIT, bronopol, zinc and sodium pyrithione, IPBC, OIT, and formaldehyde-donors. The active ingredient in Mergal® K10N is stable at all pH values but most soluble at alkaline pH values. For this reason, use levels of Mergal® K10N should be higher in products with acidic pH values.

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 24 months from date of manufacture.

Packaging

Mergal® K10N is packaged in:

Package Type	Net Weight
Pail	45 lbs / 20 kg
Large Drum	441 lbs / 200 kg
Tote	2300 lbs / 1043 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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