

MERGAL® 186

Wet-State Preservative

Paints & Coatings/US

EPA Registration No.: 5383-90

Mergal® 186 is a liquid in-container preservative designed for use in aqueous products.

Application & Use

Mergal® 186 is effective in preserving water-based products such as latex paints, resin emulsions, pigment slurries, dispersed colors, joint cements, adhesives (non-food use), and metalworking fluids in enclosed or semi-enclosed machines.

This product is suitable for systems with a pH of 3 - 10 and at a temperature up to 60°C.

Product Highlights

- Broad-spectrum protection
- Heat stable up to 80°C
- Non-yellowing
- Ease of handling and incorporation
- Excellent paint buffering capability
- Cost-effective

Physical Properties

The following are typical properties of Mergal® 186; they are not to be considered product specifications.

Appearance:	Clear, amber liquid
Specific Gravity, 25°C:	1.0
pH (as is)	10.7 - 11.4
Viscosity, 25°C	A3 - A5
Solubility	Completely soluble in water

Active Substance

68.0%	4,4 Dimethyloxazolidine	DMO	 <p>Dimethyl oxazolidine C₅H₁₁NO</p>
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Function/Activity

For systems in which water is a primary component, Mergal® 186 will generally impart preservative properties at use levels of 0.10% - 0.30% 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
Latex Paints	0.10 - 0.30%
Resin Emulsions	0.10 - 0.30%
Pigment Slurries	0.10 - 0.30%
Dispersed Colors	0.10 - 0.30%
Joint Cements	0.10 - 0.30%
Adhesives	0.10 - 0.30%
Metalworking Fluids	0.10 - 0.20%

Formulating Considerations

Mergal® 186 should be slowly added early in the manufacturing process at a point of good mixing. It is not recommended for use in systems with a pH below 6. The active ingredient in

Mergal® 186 can be effective and stable up to 80C. Customers are encouraged to check for color stability in their systems. Avoid incorporation under highly oxidizing or reducing conditions. The preservative is not recommended for use in formulations containing proteinaceous components. 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 36 months from date of manufacture.

Packaging

Mergal® 186 is packaged in:

Package Type	Net Weight
Pail	40 lbs / 18 kg
Small Drum	100 lbs / 45 kg
Large Drum	450 lbs / 204 kg
Tote	2200 lbs / 998 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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