

MERGAL® 174II

Wet-State Preservative

Paints & Coatings/US

EPA Registration No.: 365-76

Mergal® 174II is a liquid in-container preservative designed for use in aqueous products.

Application & Use

Mergal® 174II is effective in products in which water is a primary component. Examples of such products are asphalt emulsions and resin emulsions for non-residential use, adhesives, pigment dispersions, joint cements, cutting oils, and drilling additives.

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

Product Highlights

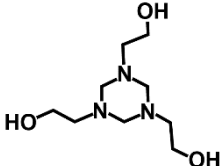
- Broad-spectrum protection
- Cost-effective; performance at low use levels
- Headspace protection
- On-demand release of formaldehyde
- Ease of incorporation
- Low freezing point & excellent freeze-thaw stability

Physical Properties

The following are typical properties of Mergal® 174II; they are not to be considered product specifications.

Appearance:	Water-white to pale yellow liquid, viscous
Specific Gravity, 25°C:	1.1 - 1.2
pH (as is)	9.7
Viscosity, 25°C	L Max
Solubility	Completely soluble in water

Active Substance

78.5%	Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	HHT	 <p>HHT C₉H₂₁N₃O₃</p>
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Function/Activity

Mergal® 174II is used to protect aqueous products from bacterial deterioration. Normal use concentrations range from 0.10% - 0.30% based on the total weight of the formulation. The concentration 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 desired shelf-life, the likelihood of exposure to repeat microbiological intrusions, residual reducing or 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	0.10 - 0.30%
Construction Products	0.10 - 0.30%
Joint Cements	0.10 - 0.30%
Pigment Dispersions	0.10 - 0.30%
Asphalt Emulsions	0.10 - 0.30%
Resin Emulsions	0.10 - 0.30%

Formulating Considerations

Mergal® 174II should be slowly added early in the manufacturing process at a point of good mixing. The product should not be exposed to temperatures exceeding 52 for prolonged periods of time. In certain formulations, the active ingredient in Mergal® 174II can remain functional after exposure to higher temperatures.

Mergal® 174II is not suitable for use in systems with a pH below 7. Amine based products may cause discoloration of the end-use formulation. Customers are encouraged to check for color stability in their systems. Avoid incorporation under highly oxidizing or reducing conditions. The product 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 24 months from date of manufacture.

Packaging

Mergal® 174II is packaged in:

Package Type	Net Weight
Pail	45 lbs / 20 kg
Small Drum	125 lbs / 57 kg
Large Drum	500 lbs / 227 kg
Tote	2600 lbs / 1179 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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