

Mergal® 174IIP is a free-flowing, powdered, organic wet-state preservative designed for use in aqueous products which are subject to bacterial deterioration.

Application & Use

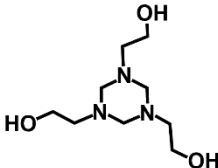
Mergal® 174IIP is useful in products in which water becomes a primary component during use. Examples of such products are resin emulsions, adhesives (non-food use), pigment dispersions, joint cements, and drilling additives. Use of this product in paints, stains, coatings, and institutional and household cleaning products is prohibited.

This product is suitable for systems with a pH >7 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

Active Substance

39.3%	Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	HHT		HHT $C_9H_{21}N_3O_3$
-------	---	-----	---	---------------------------------

Physical Properties

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

Appearance:	Off-white to pale yellow powder
pH (as is)	9.0 - 10.0
Solubility	Dispersible in water

Function/Activity

Mergal® 174IIP is generally used to protect powdered products from bacterial deterioration upon reconstitution in water. Normal use concentrations range from 0.20% - 0.60% 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 level of microbial contamination in the added water, 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
Resin Emulsions	0.20 - 0.60%
Adhesives	0.20 - 0.60%
Pigment Dispersions	0.20 - 0.60%
Joint Cements	0.20 - 0.60%
Drilling Additives	0.20 - 0.30%

Formulating Considerations

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

Mergal® 174IIP is not suitable for use in systems that have a pH of below 7 upon reconstitution in water. Amine based products may cause discoloration of the end-use formulation. Customers are encouraged to check for color stability in their systems. 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 Troysan® CP20 or Polyphase® P100, 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® 174IIP is packaged in:

Package Type	Net Weight
Pail	48 lbs / 22 kg
Large Drum	220 lbs / 100 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

Use biocides safely. Always read the label and product information before use. All product information corresponds to Arxada's knowledge on the subject at the date of publication, but Arxada makes no warranty as to its accuracy or completeness and Arxada assumes no obligation to update it. Product and safety information is intended for use by recipients experienced and knowledgeable in the field, who are capable of and responsible for independently determining the suitability of ingredients for intended uses and to ensure their compliance with applicable law. Proper use of this information is the sole responsibility of the recipient. Republication of this information or related statements is prohibited. Information provided by Arxada is not intended and should not be construed as a license to operate under or a recommendation to infringe any patent or other intellectual property right. No claims are made herein for any specific intermediate or end-use application. The information contained in this document is proprietary and confidential. The recipient shall keep this document strictly secret using at least the same level of measures as it uses to protect its own confidential information, but in any case at least commercially reasonable own confidential information, but in any case at least commercially reasonable and

customary efforts. The recipient shall use this document only for the purpose specified in the applicable contractual documentation between the recipient and Arxada and will not make any use of it for its own separate benefit or the benefit of any third party. The use by other persons or entities than the intended recipient is prohibited. If you receive this transmission in error, please contact Arxada immediately and delete this document and its attachments from your system. Upon termination of the applicable contractual relationship between the recipient and Arxada, the recipient shall return or destroy promptly this document. Recipient shall at any time be fully liable for any and all breaches of the confidentiality duty and indemnify Arxada for any damages derived thereunder. Recipient acknowledges that the information provided is considered a trade secret and therefore the duty of confidentiality must remain in force for an undetermined period of time, regardless of any prior contractual agreement with Arxada. All trademarks belong to their respective owners or to Arxada as acknowledged.

© 2023 Arxada Ltd.