

Mergal® GLT50 is a concentrated liquid preservative for control of bacteria and fungi. The product is used in a wide variety of water-based applications

### Application & Use

Mergal® GLT50 is recommended for use in aqueous systems including industrial, institutional, and consumer in-can processes and products; air washers and industrial scrubbing systems; recirculating cooling and process water systems; service water and auxiliary systems; heat transfer systems; industrial wastewater systems (wastewater systems, wastewater sludge, and wastewater holding tanks); paper mills and paper mill process water systems; pigments and filler slurries for paper and paperboard (for use in food and nonfood contact pigments and filler slurries); water-based coatings; aqueous metalworking fluids; water-based conveyor lubricants (brewery, juice, dairy, beverage, and food processing systems); reverse osmosis membranes; concrete admixtures; water floods; fracking fluids; drilling, completion, and workover fluids; packer fluids; oil production and transmission pipelines and systems; gas production and transmission pipelines and systems; gas storage wells and systems; hydrotesting; and pipeline pigging and scrapping operations.

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

### Physical Properties

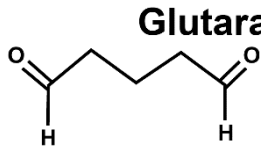
*The following are typical properties of Mergal® GLT50; they are not to be considered product specifications.*

<b>Appearance:</b>	Clear colorless liquid
<b>Specific Gravity, 25°C:</b>	1.1 - 1.2
<b>pH (as is)</b>	3.1 - 4.5
<b>Viscosity, 25°C</b>	Dynamic (room temperature): 15.4 mPa·s (15.4 cP) Kinematic (room temperature): 0.202 cm <sup>2</sup> /s (20.2 cSt)
<b>Solubility</b>	Miscible with water in any proportion

### Product Highlights

- Extremely fast-acting broad-spectrum protection
- Effective against bacterial endospores under certain conditions
- Clearances for indirect food contact applications
- Free of VOC & formaldehyde
- Cost-effective
- Non-oxidizing

### Active Substance

50.0%	Glutaric dialdehyde	Glutaraldehyde	 <p><b>Glutaraldehyde</b> C<sub>5</sub>H<sub>8</sub>O<sub>2</sub></p>
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## Function/Activity

Mergal® GLT50 is effective against bacterial and fungal contamination. It is typically added at a rate of 0.02% - 0.30% by weight of the final product to decontaminate the system. The long-term stability of Mergal GLT50 is dependent mostly upon the pH of the system. At lower pH values (<7), the active works more slowly and is stable long-term. For products with higher pH values, Mergal GLT50 works significantly faster but also decomposes more rapidly. The level required to protect or treat 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 and are reported as percentage of the end-use product.

**Clearances for Active Ingredients:** USA: FDA CFR 175.105(c)(5); 176.170(a)(5); 176.180 (b)(1); and 176.300.

Function	% Wt/Wt
Water-based Coatings	0.01 - 0.06%
General Preservative Use	0.02 - 0.20%
Concentrates	0.02 - 0.20%
Aqueous Metalworking Fluids	0.01 - 0.03%

## Formulating Considerations

Mergal® GLT50 is a liquid biocide that is used for both treatment and preservation activity depending on the pH of the final product. The active in Mergal® GLT50 can cause discoloration and should be checked for compatibility before use in finished products. The active in Mergal® GLT50 is not generally compatible with amines. Mergal® GLT50 is not recommended for use in products with high levels of animal products (e.g., casein) or protein.

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

Mergal® GLT50 is packaged in:

Package Type	Net Weight
Large Drum	485 lbs / 220 kg
Tote	2425 lbs / 1100 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](http://www.arxada.com)

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