
Technical Data Sheet

Paint and Coating, Water Treatment and Other Industries

Bactericide and Preservative for Aqueous Systems

Mergatil RV-1541

Description

Mergatil RV-1541 is an effective, broad-spectrum liquid preservative designed to inhibit the growth of bacteria, yeast, and fungi in aqueous systems.

Specification

Appearance	Colorless to yellow liquid
pH	~ 4
Density @ 25 °C, gr/cm³	~ 1.03
Solubility	Miscible with water in any proportion
Shelf life	6 months
Storage conditions	Containers should be well sealed to prevent water evaporation and skin forming. The product must be stored between 5-25°C. Freezing and direct sun light must be avoided.

fast acting. It is best suited for systems with a pH of 3 up to 9 and can be incorporated at temperatures up to 60°C.

Features

- Broad-spectrum protection
- Headspace protection
- Fast-acting
- Good sanitizing properties
- Low use-level
- Cost effective

Function/Activity

Mergatil RV-1541 demonstrates enhanced efficacy versus conventional isothiazolinone biocides. In general, it provides improved speed of sanitation as well as more resilient activity. **Mergatil RV-1541** is well suited in systems with some residual redox agents where conventional isothiazolinone biocides suffer the loss of activity.

Applications

Mergatil RV-1541 is a liquid product easily incorporated into waterborne systems. It is recommended for waterborne paints, adhesives, pigment slurries, starch solutions and sealants. It is also useful in inks, fountain solutions, polymer emulsions, rheology modifiers and wax emulsions. It can also be used to preserve detergents, household cleaners and similar products. The product is

Suggested Application Levels

Mergatil RV-1541 is typically used in paint-applications at 0.1 to 0.3% by weight of final product. The level required to protect any particular system depends on a variety of factors: 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

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NOTE: To the best of our knowledge and technical experiments, the above data is true and accurate. Given the variety of consumption fields, it is recommended to evaluate the information before use.



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and pH of the system. Suggested use levels should be verified by field trials and are reported as percentage of the end-use product.

Indirect Food Contact Applications:

Mergatil RV-1541 meets the requirements of German BfR 14. Under this clearance, the product is approved as a component of polymer emulsions for coatings of articles in contact with food.

Mergatil RV-1541 meets the requirements of German BfR 36. Under this clearance, the product is approved for the production of paper and paperboard for contact with food. The components of **Mergatil RV-1541** are listed under US FDA 21CFR 175.105

Formulating Considerations

Mergatil RV-1541 is a liquid product easily incorporated into waterborne systems. For best results,

Mergatil RV-1541 should be added as early in the production process as possible. If high temperatures or highly alkaline pH values are expected during production, the product should be added after these conditions are controlled or to be added as 1/3 of the total amount at the beginning and 2/3 at the end of the process

Mergatil RV-1541 is compatible with most known systems. The presence of strong reducing agents may result in the

degradation of the actives. Incompatibilities might occur with materials which can be cross linked like protein based adhesives. Due to various possibilities of application and different methods of processing, it is advised to check compatibility in the development of new products.

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