



Mergal® V684K

Fast-acting, Broad-spectrum, In-Can preservative for aqueous systems and for Metalworking-Fluids as a post treatment

Description	The product is a broad-spectrum In-Can preservative used to avoid deterioration and degradation of aqueous systems caused by bacteria, fungi and yeast.										
Application/Use	<p>The product is useful for the In-Can protection of various water borne systems, such as paints, coatings, stuccos, polymer dispersions, adhesives, sealants, inks, detergents, household cleaners and similar products, fountain solutions, pigment slurries, other industrial applications, Further it is suitable for Metalworking-Fluids as post-treatment, In practice it is either used in central units if an adaptation occurs against pure formaldehyde adducts or in single filled machines as an easy to handle bactericide-fungicide agent.</p> <p>The product is fast acting and provides headspace protection</p> <p>The product is usually suitable for use under the following conditions: pHs between 3 - 9 Temperatures up to 60 °C</p>										
Highlights	<ul style="list-style-type: none"> ● Low use-level ● Headspace protection ● Fast acting ● Good sanitizing properties ● Blue Angel Paint (RAL UZ 102) compliant ● Cost effective 										
Physical Properties	<p>These properties are typical properties of the product. They are not product specifications.</p> <p>Appearance: Colorless to yellow liquid</p> <p>Specific Gravity, 20 °C [g/ml]: app. 1.05</p> <p>pH (as is): app. 4</p> <p>Solubility: Miscible with water in any proportion</p>										
Function/Activity	<p>Suggested Application Level</p> <p>Suggested use levels are based on laboratory and field evaluations and are typical for the applications indicated. The actual level required for your system is formulation specific. The selection of the individual components of the formulation, the substrate to be coated, and the environment in which the coating will be exposed all have an influence on the amount of protection needed. Suggested use levels are reported as percentage of the end-use product.</p> <table border="0" style="width: 100%;"> <tr> <td>Paints, coatings, stuccos</td> <td style="text-align: right;">0.1 %</td> </tr> <tr> <td>Polymer dispersions</td> <td style="text-align: right;">0.05 - 0.1 %</td> </tr> <tr> <td>Fountain solutions (in-use)</td> <td style="text-align: right;">0.1 %</td> </tr> <tr> <td>Metalworking-Fluids (post treatment)</td> <td style="text-align: right;">0.1 - 0.15 %</td> </tr> <tr> <td>Adhesives and sealants</td> <td style="text-align: right;">0.1 %</td> </tr> </table> <p>According to EU regulations, the product is label free up to the following use-level: 0.1 %</p> <p>Clearances; BfR XIV; BfR XXXVI</p> <p>TROY's Microbiological Laboratory is available to provide additional assistance in determining the proper level of protection needed for your system.</p>	Paints, coatings, stuccos	0.1 %	Polymer dispersions	0.05 - 0.1 %	Fountain solutions (in-use)	0.1 %	Metalworking-Fluids (post treatment)	0.1 - 0.15 %	Adhesives and sealants	0.1 %
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Formulating Considerations

General Formulation Notes

The product should be added with good agitation or mixing and can be added at any stage of the production process. For best results and to achieve a homogeneous distribution it should preferably be added as early in the production process as possible.

The exception is in Metalworking-Fluids where it is only recommended for post-treatment. If highly alkaline pH values are expected during production, the product should be added after these conditions are controlled.

Alternatively, 1/3 of the product can be added in the beginning and 2/3 at the end of the process.

It is compatible with most known aqueous systems.

Incompatibilities might occur in applications in which minor amounts of formaldehyde can cause cross linking.

The presence of strong reducing agents may result in the degradation of the actives.

Due to various possibilities of application and different methods of processing, it is advised to check compatibility in the development of new products.

For further assistance, please contact your TROY representative for help.

VOC content according to EU directive 1999/13/EC:	14.2 %
VOC content according to EU directive 2004/42/EC (DecoPaint Directive):	14.2 %

Labeling And Transport

For the most updated and complete information on classification, labeling and transport, please refer to the most current Safety Data Sheet.

Handling, Storage, Health And Safety

For the handling of this product, the usual precautions for preservatives have to be taken. Contact with the concentrate should be avoided. Protective clothing and goggles have to be worn. If splashes get onto the skin, wash immediately with plenty of water and soap.

If splashes get into the eyes, wash with plenty of water and consult a physician. Avoid inhalation. Contaminated clothing must be removed immediately.

Keep container tightly closed. Use only with adequate ventilation. Store away from incompatible substances in a cool, dry, ventilated area.

Keep from freezing. If the product has excessively chilled, mix well or ideally propeller-agitate. Do not contaminate water, food, or feed by storage or disposal.

Ideally stored between 5 - 25°C

Observe all Federal, State, and Local regulations when storing or disposing of this substance.

Shelf Life: 24 Month after date of manufacture

Packaging

The product is packaged in:

Shipping Container	Net Weight
Cans	30 kg
Drums	200 kg
2-way Totes	1000 kg

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Use biocides safely. Always read the label and product information before use.

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