**ROCIMA™ 562 Biocide**

**In-can Preservation of Paints, Binders and Related Products**

**Description**

ROCIMA 562 Biocide is a liquid, VOC-free preparation of active ingredients for the in-can preservation of technical products.

ROCIMA 562 is a formulation that combines, among others, actives methylisothiazolinone and chloromethyl/methylisothiazolinone in an inverse ratio compared to the established formulations. Thus, it provides an initial rapid and powerful performance boost with a long term broad spectrum activity.

ROCIMA 562 contains active substances permitted for indirect food contact; e.g., coatings and adhesives, provided that the customary dosage rates are not exceeded.

ROCIMA 562 Biocide complies with the requirements of the German Blue Angel Ecolabel for interior wall paints (RAL UZ-102).

**Composition and Technical Data**

These properties are typical but do not constitute specifications.

**Composition:** solution of benzisothiazolone and methyl-/chloromethylisothiazolone at a ratio of >10:1.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>green, clear liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>mild</td>
<td></td>
</tr>
<tr>
<td>Color (Gardner)</td>
<td>max. 6</td>
<td>ISO 4630</td>
</tr>
<tr>
<td>Density 20°C</td>
<td>1.147 ± 0.01 g/ml</td>
<td>ISO 2811-3</td>
</tr>
<tr>
<td>Refractive index n&lt;sub&gt;20&lt;/sub&gt; /&lt;sub&gt;D&lt;/sub&gt;</td>
<td>1.465 ± 0.005</td>
<td>ASTM D 1218-02</td>
</tr>
<tr>
<td>pH, as is</td>
<td>3 - 6</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;100°C o.c. Cleveland</td>
<td>ISO 2592</td>
</tr>
</tbody>
</table>

**Typical Properties**

**Miscibility/Solubility**

Miscible with water, low alcohols, glycols and glycol ethers, clearly soluble in water at ready to use concentrations.

**Compatibility**

ROCIMA 562 shows a good compatibility even with critical systems. However, it is generally advisable to check compatibility prior to any special application.

**Stability**

**Temperature:** For optimum efficacy it is generally recommended to add ROCIMA 562 below 40°C. Short term exposure to 60°C will have minimal impact but an exposure over a prolonged time to elevated temperatures must be avoided.

**pH range:** ROCIMA 562 is applicable and efficacious from pH 4 to 11.
Application and Activity

ROCIMA 562 contains a combination of halogenated and non-halogenated isothiazolinones. The special ratio of these active substances results in both a rapid activity and a long term protection of the finished product against a broad spectrum of micro-organisms, including bacteria, yeast and mold fungi. The unique concept of ROCIMA 562 allows a robust preservation of a wide range of products such as paints, adhesives, latex emulsions, tackifiers, mineral slurries, pigment dispersions and other technical water based products without exceeding existing labelling limits established for preservatives.

ROCIMA 562 is a liquid preparation of the active ingredients, suitable to preserve products which are free of VOC and has virtually no contribution to AOX.

ROCIMA 562 generally shows very good compatibility; i.e., no coagulation, no changes in viscosity, color, gloss, film formation, or other critical parameters of the finished product have been observed.

ROCIMA 562 has a broad spectrum of activity against all micro-organisms commonly occurring in the wider area of target applications.

ROCIMA 562 complies with several food contact legislations of the European Union and of the Food and Drug Administration (FDA) of the USA. For specific information, please ask your local Rohm and Haas contact or liaise with our Product Integrity Department.

The number of technical products being preserved with ROCIMA 562 is increasing steadily and it is not always possible to predict its suitability. The optimum use should be established by preliminary studies.

Dosage

The typical use concentration of ROCIMA 562 is 0.15% and allows the protection of the finished product without additional labelling requirements.

The optimum dosage depends upon the susceptibility of the product to be preserved. Preservatives are not designed to overcome lack in plant or manufacturing hygiene but to avoid contamination in microbiologically clean products. Any microbial contamination of the product, raw materials, process water, storage installations or packaging will reduce preservative efficacy and should be avoided.

However, occasionally, the degree of unavoidable contamination as well as conditions for microbiological growth exhibit seasonal fluctuation, so that a periodical determination of germ counts can assist in choosing the optimum dosage rate.

In the case of special applications, please consult either our Technical or our Biological Laboratories for assistance.

Handling

Please refer to the safety data sheet of this product for precise handling instructions.

The processing and use of industrial chemicals require adequate technical and professional knowledge.

In general, avoid eye and skin contact, wear safety goggles, gloves and protective clothing. In case of eye or skin contact despite precautionary measures, wash immediately and thoroughly with plenty of warm water and obtain medical attention.

The legal requirements prevailing in your country, especially on working hygiene and in the avoidance of accidents, must be observed.

Storage

ROCIMA 562 should be stored in closed original containers at ambient temperature, but not below -10°C.

If the product does freeze, allow it to return to room temperature and it will turn liquid again and can be used, after homogeneous stirring, without any loss of effectiveness.
Use biocides safely. Always read the label and product information before use.

ROCIMA is a trademark of Rohm and Haas Company or of its subsidiaries or affiliates. The Company’s policy is to register its trademarks, where products designated thereby are marketed by the Company, its subsidiaries or affiliates.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

Suggestions for uses of our products or the inclusion of descriptive material from patents and the citation of specific patents in this publication should not be understood as recommending the use of our products in violation of any patent or as permission or license to use any patents of the Rohm and Haas Company.