**ROCIMA™ 553 Biocide**
In-Can Protection for Paints and Aqueous Technical Products

**Description**

ROCIMA 553 biocide is a versatile liquid combination of active substances to preserve paints and aqueous technical products in general.

ROCIMA 553 contains no added formaldehyde, nitrites, nitrosamines or cationic, phenolic or corrosive substances. It does not contribute to VOC or AOX of the finished product.

**Composition and Technical Data**

These properties are typical but do not constitute specifications.

**Composition:** solution of methylisothiazolone and octylisothiazolone

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Colorless to yellowish, clear liquid</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Mild</td>
</tr>
<tr>
<td><strong>Color (Gardner)</strong></td>
<td>Max. 3</td>
</tr>
<tr>
<td><strong>Density</strong> ( \frac{20}{4} )</td>
<td>1.127 ± 0.01 g/ml</td>
</tr>
<tr>
<td><strong>Refractive index</strong> ( \frac{20}{D} )</td>
<td>1.446 ± 0.005</td>
</tr>
<tr>
<td><strong>Viscosity</strong> ( \eta ) (20^\circ C)</td>
<td>40 ± 25 mPa.s</td>
</tr>
<tr>
<td><strong>pH</strong>, as is</td>
<td>5 - 9</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>&gt;100°C o.c. Cleveland</td>
</tr>
</tbody>
</table>

**Typical Properties**

**Miscibility/Solubility**

Miscible in a wide range of water soluble solvents, forms clear solutions with water, low alcohols, glycols, and glycol ethers.

**Compatibility**

ROCIMA 553 shows in general a very good compatibility even after undiluted addition. A series of experiments have shown that viscosity and color of finished products preserved with ROCIMA 553 do not change.

**Stability**

Temperature: up to 60°C (short period to 80°C)

pH range: 4 to 11

**Application and Activity**

ROCIMA 553 combines environmental acceptability with effective preservation. It can be used in a wide range of products such as paints, adhesives, latex emulsions, tackifiers, mineral slurries, pigment dispersions and other technical, water based products.
ROCIMA 553 is a liquid, clear solution of the active ingredients and can be added easily by stirring in during any step of the formulation process.

ROCIMA 553 contains neither formaldehyde, nitrites, nitrosamines nor cationic or phenolic substances. Therefore, it is particularly suited for use in products not readily compatible with these substances. It does not contribute to VOC or AOX of the finished product.

ROCIMA 553 displays a broad range of activity against all types of gram-positive and gram-negative, aerobic and anaerobic bacteria as well as molds and yeasts which are commonly encountered in the wet stage protection of technical materials.

The number of technical products being preserved with ROCIMA 553 is increasing steadily and it is not always possible to predict its suitability. The optimum use should be established by preliminary studies.

**Dosage**

The optimum dosage rate of ROCIMA 553 biocide depends upon the degree of contamination and the susceptibility of the product to be preserved. Occasionally, the degree of contamination exhibits seasonal fluctuation, so that a periodical determination of germ counts can assist in choosing the optimum dosage rate.

The typical use concentration ranges between 0.05 – 0.15%.

In the case of special application, please contact your Rohm and Haas Representative.

**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 553 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. Bioactivity is unaffected by freezing and melting.

**Biocidal Products Directive Compliance**

ROCIMA 553 is a biocidal product intended for use in accordance with Product Type 6 (In-Can preservation) of the Biocidal Products Directive 98/8/EC (BPD).

**Caution**

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 use 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 patents or as permission or license to use any patent of the Rohm and Haas Company.

©Rohm and Haas, 2007 All rights reserved.

December 2007
BIO.ROCIMA 553.PDS.E.