ROCIMA™ 555 Biocide
In-can Protection for Technical Products

Description

ROCIMA 555 Biocide is a liquid combination of active substances to preserve aqueous products such as dispersion paints, emulsion paints, glues, cutting oils, thickening pastes and binder dispersions.

ROCIMA 555 is active both in the aqueous phase as well as in the vapour phase above it.

Composition and Technical Data

These properties are typical but do not constitute specifications.

Composition: preparation of methylisothiazolone and formaldehyde donor

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>colorless to yellow, clear liquid</td>
</tr>
<tr>
<td>Colour (Gardner)</td>
<td>max. 3</td>
</tr>
<tr>
<td>Density $\frac{d}{4}$</td>
<td>1.132 ± 0.01 g/ml</td>
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<tr>
<td>Refractive index $\frac{n}{D}$</td>
<td>1.408 ± 0.005</td>
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<tr>
<td>pH, as is</td>
<td>4–8</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100°C o.c. Cleveland</td>
</tr>
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Typical Properties

Miscibility/Solubility
Miscible in a wide range of water soluble solvents, forms clear solutions in water.

Compatibility

ROCIMA 555 shows a good compatibility with most common paint systems and binders. However, it is generally advisable to check compatibility prior to any application, especially where formaldehyde-sensitive products are involved.

Stability

Temperature: up to 40°C (short periods to 60°C), pH range: 4 to 11.

Application and Activity

ROCIMA 555 was especially developed as an in-can preservative for use in dispersed or emulsified aqueous systems. It can be added at any phase of production. It is, however, recommended to add the necessary amount of ROCIMA 555 at the very beginning of manufacturing process, where the conditions during production are allowing this.

ROCIMA 555 contains a combination of active substances, which provide a long term protection in the aqueous phase and an additional protection in the vapour phase.

ROCIMA 555 is effective against bacteria (gram-positive and gram-negative) under aerobic or anaerobic conditions. It is also effective against yeasts and moulds commonly encountered in the described fields of application. The number of technical products in need of preservation is steadily increasing. Since it is impossible for a biocide supplier to check compatibility with all materials used in individual formulations, preliminary tests to check compatibility of ROCIMA 555 with the specific product are always necessary.
Dosage

The necessary dosage rate of ROCIMA 555 depends upon the degree of contamination of the raw materials and upon the susceptibility of the product to be preserved. Degree of contamination and susceptibility can fluctuate seasonally. A periodical determination of germ counts helps considerably in choosing the optimum dose rate. Therefore, the concentration ranges listed below should be used for guidelines only:

| Binders, thickener solutions | 0.1 – 0.2% |
| Paints, plasters, adhesives | 0.1 – 0.3% |

As a further preventive measure against microbial infections, we advise to pay full attention to the cleanliness of storage and production facilities.

In the case of special application, please consult either our Technical Service 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 555 Biocide should be stored in closed original containers at ambient temperature, but not below -5°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.

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

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