Biocides

KORDEK™ MLX Biocide
In-can preservation for paints, adhesives and related products

Description

KORDEK MLX Biocide is an active ingredient solution for the preservation of paints, binder dispersions, adhesives and other technical products.

KORDEK MLX contains an active substance permitted for use in food contact coatings and adhesives provided that the customary dosage rates are not exceeded.

KORDEK MLX is a straight aqueous solution of the active ingredient and does not contribute to VOC and AOX.

Composition and Technical Data

These properties are typical but do not constitute specifications.

<table>
<thead>
<tr>
<th>Composition: aqueous solution of Methylisothiazolone</th>
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<tbody>
<tr>
<td>Appearance</td>
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<tr>
<td>Odour</td>
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<tr>
<td>Colour (Gardner)</td>
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<tr>
<td>Density ( d_{20/4} )</td>
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<tr>
<td>Refractive index ( n_{20/D} )</td>
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<td>pH, as is</td>
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<td>Flash point</td>
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Typical Properties

Miscibility/Solubility

Infinite solubility in water, miscible in a wide range of water soluble solvents.

Compatibility

KORDEK MLX shows a very good compatibility even after undiluted addition. A series of experiments have shown that viscosity and color of the finished products preserved with KORDEK MLX remain unchanged.

Stability

Temperature: up to 60°C (short periods to 80°C), pH range: 4 to 11.

Application and Activity

KORDEK MLX 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.

KORDEK MLX is a straight solution of the active ingredient in water and does not contain any additives or salt. It is therefore suited to preserve products which are free of VOC (volatile organic compounds) and AOX (adsorbable, halogenated organic substances). In most cases it shows a very good compatibility and will not cause coagulation even if added undiluted.
KORDEK MLX has a broad spectrum of activity against all commonly occurring micro-organisms in the application field. It must be understood that KORDEK MLX cannot provide a protection in the vapor phase due to absence of formaldehyde and other volatile microbicides. Therefore, appropriate hygienic measures should be followed during paint production.

KORDEK MLX 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 KORDEK MLX 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 KORDEK MLX 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 consult either our Technical or our Biological Laboratories for assistance.

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

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