KATHON™ TCP II Microbiocide
KORDEK™ MTC Microbiocide
Preservatives for Textile Chemical Formulation

General

KATHON™ TCP II Microbiocide and KORDEK™ MTC Microbiocide are broad spectrum biocides intended for use as preservatives in textile chemical formulations. Both of these products offer excellent performance at low dosage levels.

- KATHON TCP II Microbiocide is recommended for use in textile chemical formulations with a pH of 8.5 or less.
- KORDEK MTC Microbiocide is recommended for use in textile chemical formulations with a pH of 8.5 or greater.

Structures

KATHON™ TCP II Microbiocide

**Active Ingredients**
- 5-chloro-2-methyl-4-isothiazolin-3-one
  - CAS No. 2617255-4
- 2-methyl-4-isothiazolin-3-one
  - CAS No. 2682-20-4

KORDEK™ MTC Microbiocide

**Active Ingredient**
- 5-chloro-2-methyl-4-isothiazolin-3-one
  - CAS No. 2617255-4
- 2-methyl-4-isothiazolin-3-one
  - CAS No. 2682-20-4

Physical Properties and Composition

The following are typical properties and composition of KATHON TCP II Microbiocide and KORDEK MTC Microbiocide; they are not to be considered product specifications.

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>KATHON™ TCP II Microbiocide</th>
<th>KORDEK™ MTC Microbiocide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, pale blue-green liquid</td>
<td>Colorless to pale yellow liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
<td>Mild</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.02</td>
<td>1.02</td>
</tr>
<tr>
<td>Stability</td>
<td>Stable, as supplied, for at least one year at ambient temperature</td>
<td>Stable, as supplied, for at least one year at ambient temperature</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Composition</th>
<th>KATHON™ TCP II Microbiocide</th>
<th>KORDEK™ MTC Microbiocide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Ingredients</td>
<td>Chloromethylisothiazolone .......... 1.15%</td>
<td>Methylisothiazolone .......... 9.7%</td>
</tr>
<tr>
<td></td>
<td>Methylisothiazolone .......... 0.35%</td>
<td></td>
</tr>
<tr>
<td>Inert Ingredients</td>
<td>Magnesium salts .......... 2.80%</td>
<td>Water .......... Balance</td>
</tr>
<tr>
<td></td>
<td>Cupric nitrate .......... 0.15%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Water .......... 95.55%</td>
<td></td>
</tr>
</tbody>
</table>

Special Features and Benefits

KATHON TCP II Microbiocide and KORDEK MTC Microbiocide are excellent choices for use in preservation of textile chemical formulations.

- Low dosage levels which provide an opportunity to reduce costs
- Broad spectrum of activity which can address your needs to preserve your “difficult” formulations
- Effective over broad pH range (KATHON TCP II Microbiocide for pH < 8.5; KORDEK MTC Microbiocide for pH > 8.5)
- Supplied in liquid form to facilitate dosing into textile formulations
• Safe at recommended use levels
• Environmentally acceptable

**Uses**

It is a violation of Federal Law to use these products in a manner inconsistent with their labeling. To be used only by technically qualified personnel.

KATHON™ TCP II Microbiocide and KORDEK™ MTC Microbiocide are recommended for the control of bacteria and fungi in the manufacture and storage of textile processing chemicals such as fiber lubricants, spin finishes, sizes, dyestuffs, textile printing inks, dispersants, thickeners, dye fixatives, hand builders, and weighters.

**Dosage**

The following table provides information on approved dosage levels for KATHON TCP II Microbiocide and KORDEK MTC Microbiocide in textile applications. Due to the variety of potential textile formulations and their specific chemical compositions, it is recommended that users evaluate the optimum dosage level for their formulation.

**KATHON™ TCP II Microbiocide**

<table>
<thead>
<tr>
<th>Dose Level</th>
<th>Parts per million (ppm) of Active Ingredient</th>
<th>Lbs per 1000 lbs of textile formulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>6</td>
<td>0.4</td>
</tr>
<tr>
<td>Maximum</td>
<td>25</td>
<td>1.67</td>
</tr>
</tbody>
</table>

**KORDEK™ MTC Microbiocide**

<table>
<thead>
<tr>
<th>Dose Level</th>
<th>Parts per million (ppm) of Active Ingredient</th>
<th>Lbs per 1000 lbs of textile formulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>25</td>
<td>0.25</td>
</tr>
<tr>
<td>Maximum</td>
<td>150</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Note: The total active ingredient in a textile formulation should at no time exceed the maximum values specified in the table above.

**Handling**

Please refer to product Safety Data Sheet (SDS) of these products for precise handling instructions.

**Product Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.
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