Biocidal ZF™
Spray Disinfectant for Incubators and Sterile Cabinets in Cell Culture Area

Effectiveness:
Biocidal ZF™ is effective against bacteria, spores and enveloped viruses.

Non-volatile:
Active microbicidal ingredients are non-volatile. They protect cell cultures from microbial contamination and do not invade cell cultures via air. Thus cell cultures are protected against contamination and the disinfectant itself.

Application for incubators
• Empty incubator
• Spray Biocidal ZF™ on all surfaces and let settle
• Put cultures right back

Surfaces will be protected for 2-4 weeks. (Before disinfecting you may clean incubator with Biocidal ZF™ if necessary)

Application in sterile benches
• Empty sterile bench
• Then clean with Biocidal ZF™ and finally spray on all surfaces.

Protection will prevail until next workshift. No combustible gases can form, unlike by use of ethanol.

<table>
<thead>
<tr>
<th>Cat. #</th>
<th>Description</th>
<th>Quantity</th>
<th>Package Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAK-ZF-1</td>
<td>1 x 1 liter spray bottle</td>
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<tr>
<td>WAK-ZF-6</td>
<td>6 x 1 liter spray bottle</td>
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<tr>
<td>WAK-ZF-12</td>
<td>12 x 0.2 liter spray bottle</td>
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Precautions: Avoid eyes and skin contact
Disposal: Biologically degradable

Active Ingredients: Quaternary ammonium compounds -free of aldehydes-
Storage: Room temperature
Materials compatibility: Universal inclusive fittings within incubators and sterile cabinets

Gentaur Europe BVBA
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Tel 0032 16 58 90 45 - info@gentaur.com
1. **Product Description**  
   Catalog No.: WAK-ZF-1; WAK-ZF-6; WAK-ZF-12  
   Product name: Biocidal ZFTM  
   Purpose of use: Ready-to-use disinfectant to protect cell cultures from microbial contamination.

2. **Chemical ingredients**  
   Quaternary ammonium compounds, auxiliary additives.

3. **Health hazard data**  
   Weakly irritant for skin. Irritant for eyes and mucosa. Do not inhale spray-aerosols.  
   Skin contact: promptly wash skin with water and mild soap. Eye or mucosa contact: rinse thoroughly with water for 15 minutes. Consult physician.  
   Wear appropriate protective clothing to avoid body contact.

4. **Emergency and first aid procedures**  
   Ingestion: Give large amounts of water. Never give anything by mouth to an unconscious person. Never try to make an unconscious person vomit. Contact a physician.

5. **Fire and explosion hazard data**  
   Non inflammable. Water-soluble.

6. **Steps to be taken in case material is released or spilled**  
   Take up with absorbent material, rinse with water.

7. **Handling instructions**  
   Avoid contacts with eyes or mucosa. Wear protective clothing, gloves and glasses.

8. **Storage**  
   Protect from mechanical damage. Store light protected at room temperature.

9. **Physical data**  
   Boiling point: 100°C  
   Appearance: colorless liquid  
   pH-value: 8.5 ± 0.5  
   Odor: n/a  
   Specific weight: 0.99 ± 0.01 g/cm³  
   Solubility: water soluble  
   Flammable limits: none  
   Chemical stability: stable > pH6

10. **Stability data**  
    Stable. Dangerous decomposition products not known.

11. **Toxicological data**  
    Potentially hazardous if inhaled or ingested.  
    LD₅₀ Oral rat 50 000 mg/kg.

12. **Waste disposal methods**  
    Biologically degradable. Dispose like grey water.

13. **Transportation requirements**  
    No special instructions

14. **General**  
    While the information and recommendations set forth herein are believed to be accurate as of the date hereof, WAK-Chemie Medical GmbH makes no warranty with respect thereto and disclaims all liability from reliance thereon.  
    Last revised 12- September 2007

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