Material Safety Data Sheet
This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

WHMIS (Pictograms)  WHMIS (Classification)  HCS
WHMIS CLASS D-2: Material causing other toxic effects. Controlled under the Pest Control Products Act (PCP)  Corrosive liquid.

Section 1. Chemical Product and Company Identification

Product Name/ Trade name Betco 256
Synonym Cleonor/Disinfectant/Decolorizer/Fungicide/Mildewstat/Virucide
Chemical Family Not available.
Chemical Formula Not applicable.
Manufacturer/ Supplier Betco Corporation
1001 Brown Avenue
Toledo, Ohio 43607
(419) 241-2156
TSCA TSCA Inventory: All components listed or are exempt from listing.
DSL/ NDSL All components listed unless noted elsewhere on this MSDS

Code 306
CAS # Not applicable.
Validation Date 3/22/2004
Print Date 3/27/2004
In Case of Emergency Chemtrec (800) 424-9300

Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
<th>Exposure Limits</th>
<th>LC50/LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Quaternary Ammonium Chloride</td>
<td>7173-51-5</td>
<td>3.75</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>2) Dioctyl Dimethyl Ammonium Chloride</td>
<td>5538-94-3</td>
<td>1.5</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>3) Quaternary Ammonium Chloride</td>
<td>68424-95-3</td>
<td>2.25</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>4) Quaternary Ammonium Chloride</td>
<td>68424-85-1</td>
<td>5</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>5) Nonionic Surfactant</td>
<td>9016-45-9</td>
<td>5-10</td>
<td>Not available.</td>
<td>ORAL (LD50): Acute: 3030 mg/kg [Rat].</td>
</tr>
<tr>
<td>6) Tetrasodium salt of</td>
<td>64-02-8</td>
<td>1-5</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>ethylene diaminetetraacetic acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7) Sodium Sesquicarbonate</td>
<td>533-96-0</td>
<td>1-5</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 3. Hazards Identification

Potential Acute Health Effects Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Corrosive to eyes and skin.
Potential Chronic Health Effects Prolonged exposure may result in skin burns and ulcerations.
Carcinogenic Effects Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for treatment advice.

Skin Contact Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.
### Inhalation
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration., preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

### Ingestion
Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

## Section 5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>Products of Combustion</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Fighting Media and Instructions</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Special Remarks on Fire Hazards
N/A

### Special Remarks on Explosion Hazards
N/A

## Section 6. Accidental Release Measures

### Small Spill and Leak
Chemical anti-splash goggles. Absorb with an inert material and place in an appropriate waste disposal container.

### Large Spill and Leak
Avoid to runoff to sewers and waterways. Wear Protective Clothing. Absorb with Inert Material. Contact your local Emergency planning commission for further instructions.

### Personal Protection in Case of a Large Spill
Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

## Section 7. Handling and Storage

### Precautions
Avoid contact with skin and eyes. DO NOT ingest.

### Incompatibility
None known.

### Storage
Keep out of reach of children. For Institutional and Commercial Use

## Section 8. Exposure Controls/Personal Protection

### Engineering Controls
Good general ventilation should be sufficient to control airborne levels.

### Personal Protection

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Splash goggles.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Long Pants and Long Sleeves to avoid skin contact.</td>
</tr>
<tr>
<td>Respiratory</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Hands</td>
<td>Gloves (impervious).</td>
</tr>
</tbody>
</table>

### Protective Clothing (Pictograms)

### Exposure Limits
Not available.
### Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State and Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>pH</td>
<td>9.5 to 10.5 [Basic.]</td>
</tr>
<tr>
<td>Boiling/Condensation Point</td>
<td>214°F initial</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Critical Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Instability Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.03 (Water = 1)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>20mm Hg @ 68°F</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt;1 (Air = 1)</td>
</tr>
<tr>
<td>Volatility</td>
<td>70</td>
</tr>
<tr>
<td>VOC</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt;1 compared to Water</td>
</tr>
<tr>
<td>Dispersion Properties</td>
<td>See solubility in water.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Easily soluble in cold water.</td>
</tr>
<tr>
<td>The Product is:</td>
<td>May be combustible at high temperature.</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash Points</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Fire Hazards in Presence of Various Substances</td>
<td>No specific information is available in our database regarding the flammability of this product in presence of various materials.</td>
</tr>
<tr>
<td>Explosion Hazards in Presence of Various Substances</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### Section 10. Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Incompatibility with Various Substances</td>
<td>None known.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>
Section 11. Toxicological Information

Routes of Entry
Skin contact. Ingestion. INHALATION

Toxicity to Animals
Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA).

Acute Effects on Humans

Eye
Eye irritant. Liquid and mist may damage the eyes causing corneal injury.

Skin
Skin irritant. Prolonged or repeated contact may cause dermatitis.

Inhalation
N/A

Ingestion
May be irritating to the mouth, throat, and gastrointestinal system. Burning pain, vomiting, and diarrhea expected with large doses.

Chronic Effects on Humans
Prolonged exposure may result in skin burns and ulcerations.

Special Remarks on Toxicity to Animals
No additional remark.

Special Remarks on Chronic Effects on Humans
No additional remark.

Section 12. Ecological Information

Ecotoxicity
Not Available

BOD5 and COD
Not available.

Products of Biodegradation
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation
Not available.

Special Remarks on the Products of Biodegradation
No additional remark.

Section 13. Disposal Considerations

Waste Information
Any method in accordance with applicable laws.

Waste Stream
Not available.

Section 14. Transport Information

DOT (U.S.A)
(Pictograms)

TDG Classification
Class 8: Corrosive material

PIN UN, Proper Shipping Name, PG
Not applicable.

Maritime Transportation
Not available.

Special Provisions for Transport
Not applicable.
### Section 15. Other Regulatory Information and Pictograms

**WHMIS (Classification)**  
WHMIS CLASS D-2: Material causing other toxic effects. Controlled under the Pest Control Products Act (PCP).

**Regulatory Lists**  
No products were found.

**Other Regulations**  

<table>
<thead>
<tr>
<th>Other Classifications</th>
<th>HCS (U.S.A.)</th>
<th>USA Regulatory Lists</th>
<th>Other Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HCS CLASS: Corrosive liquid.</td>
<td>California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide &lt; 1 ppm.</td>
<td>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene Oxide &lt; 1 ppm.</td>
</tr>
<tr>
<td>DSD (EEC)</td>
<td></td>
<td>This product is not classified according to the EU regulations.</td>
<td></td>
</tr>
</tbody>
</table>

**Hazardous Material Information System (U.S.A.)**

<table>
<thead>
<tr>
<th>Flammability</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Hazard</td>
<td>0</td>
</tr>
</tbody>
</table>

The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

### Section 16. Other Information

Verified by CRushton.  

**Information Contact**  
Betco Corporation  
1001 Brown Avenue  
Toledo, Ohio 43607

**Notice to Reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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