MATERIAL SAFETY DATA SHEET

Effective Date: 06-06-02
Replaces: 04-19-02

Identity (as used on label and list)

**Virocid**: disinfectant; virucide; bactericide; fungicide for agriculture

*Livestock and food industry*

**Product code**: d004c5.3

**Section I**

Manufacturer's name: 
cid lines belgium

Address (number, street, city, state, and zip code)
waterpoortstraat 2
8900 ieper belgium

Emergency telephone number: (011) +32 70 245245

Telephone number for information: (011) +32 57217877

Date prepared: 6/06/2002

**Section II – Hazard Ingredients / Identity Information**

<table>
<thead>
<tr>
<th>Hazardous components (specific chemical identity; common name(s))</th>
<th>Cas #</th>
<th>Osha pel</th>
<th>Acgih tlv</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>alkyl(dimethylbenzylammonium chloride (22.6 oz)</td>
<td></td>
<td></td>
<td></td>
<td>17.7%</td>
</tr>
<tr>
<td>didecyldimethylammoniumchloride (10.4 oz)</td>
<td></td>
<td></td>
<td></td>
<td>8.1%</td>
</tr>
<tr>
<td>glutaraldehyde (14.3 oz)</td>
<td></td>
<td></td>
<td></td>
<td>11.2%</td>
</tr>
</tbody>
</table>

**Section III – Physical / Chemical Characteristics**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point</td>
<td>93ºc (200°f)</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.005</td>
</tr>
<tr>
<td>Vapor pressure (mm hg @ 20ºc)</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>-10ºc (14°f)</td>
</tr>
<tr>
<td>Evaporation rate (butyl acetate = 1)</td>
<td>no data available</td>
</tr>
<tr>
<td>Ph concentrate:</td>
<td>5.0</td>
</tr>
<tr>
<td>1% dilution:</td>
<td>5.9</td>
</tr>
</tbody>
</table>

**Section IV – Fire and Explosion Hazard Data**

- Flash point (method used): not flammable
- Flammable limits: not applicable
- Lel: n/a
- Uel: n/a

**Extinguishing Media**
abc fire extinguishers (dry chemical, foam, carbon dioxide, water spray)

**Special Fire Fighting Procedures**
wear proper protective equipment. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**Section V – Reactivity Data**

- Stability: acid
- Conditions to avoid: never mix with alkalis

**Incompatibility (Materials to Avoid)**
avoid contact with: strong alkalis and strong oxidizing agents

**Hazardous Decomposition or Byproducts**
none under normal conditions

**Hazardous Polymerization**
n/a

**Section VI – Health Hazard Data**

- Route(s) of Entry:
  - Inhalation? yes
  - Skin? yes
  - Ingestion? yes

- Health Hazards (Acute and Chronic): harmful by inhalation. Contact with eyes and skin causes severe burns

- Carcinogenicity: Ntp? no
- Iarc monographs? no
- Osha regulated? no

**Signs and Symptoms of Exposure**
- Inhalation: cough, sore throat. Corrosive to the respiratory system.
- Skin contact: redness, pain. Causes severe burns.
- Eye contact: redness, pain, blurred vision, risk of damage to eyes.
- Ingestion: abdominal pain, nausea. Burning sensation.

**Medical Conditions Generally Aggravated by Exposure**: none known

**Emergency and First Aid Procedures**
- **Inhalation**: assure fresh air breathing. Obtain medical attention if breathing difficulty persists.
- **Skin Contact**: remove contaminated clothing and shoes. Flush with plenty of water for 15 min. Seek medical attention if ill effect or irritation develops.
- **Eye Contact**: rinse immediately with plenty of water for 15 min. Contact ophthalmologist immediately.
- **Ingestion**: rinse mouth. Do not induce vomiting because of corrosive effects. If swallowed, seek medical advice immediately and show this container or label.
### Section vii – precautions for safe handling and use

**Steps to be taken in case material is released or spilled**
- **personal precautions:** spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Wear suitable protective clothing and gloves.
- **environmental precautions:** prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
- **after spillage and or leakage:** clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers. Dilute residues with water and flush.

**Waste disposal method**
- use suitable disposal containers. Dilute residues and flush.

### Section vii – precautions for safe handling and use (continued)

**Precautions to be taken in handling and storing**
- **avoid all unnecessary exposure.**
- **storage:** protect from freezing. Keep at temperature not exceeding 50°C. Keep container closed when not in use.
- **handling:** handle in accordance with good industrial hygiene and safety procedures. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

**Other precautions**
- store in original packing in storage temperatures from 23°F to 93°F

### Section viii – control measures

**Respiratory protection (specify type):** no special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Local exhaust</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mechanical (general)</td>
<td>Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protective gloves</th>
<th>wear protective gloves</th>
<th>Eye protection</th>
<th>wear safety glasses</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Other protective clothing or equipment</th>
<th>wear protective clothing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Work / hygienic practices</th>
<th>provide local exhaust or general room ventilation</th>
</tr>
</thead>
</table>

### SECTION IX – TRANSPORTATION

**Information when transporting**
- un no. 1760
- Corrosive liquid, n.o.s. (alkyldimethylbenzylammoniumchloride, glutaraldehyde)
- Class 8
- Packing group iii

### NFPA Hazard Identification Rating

(Scale 0-4, Where 4=High Degree Of Hazard)

- Health: 2
- Flammability: 0
- Instability: 0
- Special: 0

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td>C</td>
</tr>
</tbody>
</table>

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

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