# Material Safety Data Sheet (MSDS)

**CSQ Carpet Cleaner, Deodorizer and Sanitizer**

## Section I: Product Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Type</th>
<th>WHMIS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSQ</td>
<td>Carpet cleaner, deodorizer and sanitizer</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

## Section II: Hazardous Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Cas Registry No.</th>
<th>%</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl Dimethyl Benzyl Ammonium Chloride</td>
<td>68424-85-1</td>
<td>&lt;1</td>
<td>( \text{LD}_{50} \text{ ORAL (RAT)} 400 \text{ mg/kg} )</td>
</tr>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>1-3</td>
<td>Not Available</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>0.1-1.0</td>
<td>TLV 1000 ppm</td>
</tr>
<tr>
<td>Alcool d’ethoxylate</td>
<td>68131-39-5</td>
<td>3-5</td>
<td>( \text{LD}_{50} \text{ ORAL (RAT)} 2140 \text{ mg/kg} )</td>
</tr>
</tbody>
</table>

## Section III: Physical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear colourless liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Uncented</td>
</tr>
<tr>
<td>pH</td>
<td>9.6</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>100 °C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>100 %</td>
</tr>
</tbody>
</table>

## Section IV: Fire and Explosion Hazard Data

- **Flash Point (°C):** None
- **Extinguishing media:** Not Applicable
- **Special fire fighting procedures:** None
- **Unusual fire and explosion hazards:** None

## Section V: Toxicological Properties

**HAZARD RATING:**
- Health = 1
- Flammability = 0
- Reactivity = 0

- **Swallowing:** Slightly Toxic.
- **Inhalation:** Not Applicable
- **Skin Absortion:** Not Applicable
- **Skin Contact:** Slight Irritant
- **Eye Contact:** Slight Irritant
- **Special Warning:** None

## Section VI: First Aid Measures

- **Ingestion:** Drink 3-4 glasses of milk or water.
- **Inhalation:** Not Applicable
- **Skin:** Flush with water. If irritation persists, call a physician.
- **Eyes:** Flush with water. If irritation persists, call a physician.

## Section VII: Reactivity Data

- **Stable:** Yes
- **Conditions to avoid:** None
- **Incompatibility with other materials:** None
- **Hazardous decomposition products:** None
- **Hazardous polymerization:** Will not occur.

## Section VIII: Preventive Measures

- **Hand protection:** Chemical resistant gloves
- **Eye protection:** Safety glasses with side shields
- **Ventilation:** General
- **Respiratory protection:** None
- **Other protective equipment:** None

**Steps to be taken in case material is released or spilled:** Mop up spillage. Rinse spill area with water and allow to dry.

**Waste disposal method:** Flush with water into waste systems in accordance with municipal, provincial and federal regulations.

**Precautions to be taken in handling and storage:** Normal handling processes. Inside storage at 4-40 °C recommended.

**Other precautions:** Follow label use instructions.

**UN:** Not Applicable

**TDG Class:** None

**Packing Group:** Not Applicable

**TDG Emergency Telephone Number:** 613-996-6666 (COLLECT)

## Section IX: Preparation Data

- **Prepared by:** M. Mikoluk
- **Last updated:** June 1, 2015
- **Location:** Dustbane Products Limited, 25 Pickering Place, Ottawa, Ontario, K1G 5P4 – 613-745-6861
CSQ
Carpet Cleaner, Deodorizer and Sanitizer

“A superior performance product formulated to clean, deodorize and sanitize carpets. Contains a twin chain quaternary ammonium compound which reduces the growth of Gram-negative and Gram-positive bacteria. Ideal for use in health care facilities such as carpets in hospitals, nursing homes, clinics, dentist offices and others.”

FEATURES AND BENEFITS
“Twin Chain” quaternary ammonium compounds: Reduces the growth of gram negative and gram positive odour-forming bacteria.

Odour counteractants: Neutralizes unpleasant odours.

WHERE TO USE
Recommended to use on washable, synthetic fibres. Use on carpets in hospitals, nursing homes, clinics, dentist offices and other healthcare facilities.

HOW TO USE
For use on washable synthetic fibers. Should not be used on wool carpets or on carpets made of stain resistant fibers. Recommended for use on colourfast fabrics only. To test for colourfast fabrics, apply in a hidden area. Using a clean white cloth, wipe solution into fabric. If no colour is removed, proceed with cleaning.

For best results, pre-vacuuming is always recommended. Dilute at a rate of 1:80 and follow operation instructions as listed on equipment.

CAUTION: NOT FOR USE ON CARPETS MADE OF STAIN RESISTANT FIBRES.

SANITIZING PERFORMANCE / HARD WATER TOLERANCE
At a dilution of 1:80, CSQ gives 250 mg/L sanitizing activity. The non-food contact surface sanitizing activity of the active ingredient in CSQ was determined by the following test methodology: EPA DIS/TSS-10, February 6, 1979 and the Guidelines for Registering Pesticides in the United States, Subpart G – Product Performance, June 22, 1979 Draft, Recommended Method #8 (Sanitizers-Non-Food Contact Surfaces), pg. 101-102.

<table>
<thead>
<tr>
<th>Test Organism</th>
<th>Concentration of the active ingredient in CSQ-2000 required for 99.999% Reduction</th>
<th>Hard Water Ceiling</th>
<th>Contact Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staphylococcus aureus (ATCC #6538)</td>
<td>150 mg/L 200 mg/L</td>
<td>800 mg/L 1100 mg/L</td>
<td>2 minutes 1 minute</td>
</tr>
<tr>
<td>Klebsiella pneumoniae (ATCC #4352)</td>
<td>150 mg/L 200 mg/L</td>
<td>800 mg/L 1100 mg/L</td>
<td>2 minutes 1 minute</td>
</tr>
</tbody>
</table>

Fungicidal Performance as Determined by the AOAC Fungicidal Test
Possessing superior fungicidal activity, the active ingredient in CSQ-2000 effectively passes the AOAC fungicidal test at a one-eighth the concentration required for conventional alkyl benzyl quaternaries.

<table>
<thead>
<tr>
<th>Test Organism</th>
<th>Ten Minute Killing Dilution (100% active)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichophyton mentagrophytes</td>
<td>1:8000 (125 mg/L) (Data supplied by Lonza Inc., Fairlawn, N.J.)</td>
</tr>
</tbody>
</table>

SPECIFICATIONS
Type: Quaternary ammonium synthetic detergent
Appearance: Clear liquid
Fragrance: Unscented
Viscosity: as water
PH (conc.): 9.6
PH (1%): 9.3
Flash Point: None
Freeze-Thaw stability: Passes 3 cycles
Environment: Biodegradable surfactant; phosphate free
Guarantee: Alkyl dimethyl benzyl ammonium chloride 0.8
Didecyl dimethyl ammonium chloride 1.2