**MATERIAL SAFETY DATA SHEET**

BEST SUPPLY CO.
Box 11056
Hauppauge, NY 11788

GENERAL INFORMATION NUMBER: 631-630-5412
CHEMTREC: (800) 424-9300

REVISION DATE: November 11, 2010
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**I - Product Identification**

**Vanquish**

PRODUCT CODE: 0175
CHEMICAL FORMULATION: Quaternary-based disinfectant.

**NFPA HAZARD IDENTIFICATION SYSTEM**

- HEALTH: 2
- FLAMMABILITY: 1
- REACTIVITY: 0

**HAZARD RATING:**

- 4 - Extreme;
- 3 - High;
- 2 - Moderate;
- 1 - Slight;
- 0 - Insignificant

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**II - Hazardous Ingredients**

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>APPROX %</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>EPA 40 CFR:</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N-Dialkyl (C_{12-16})-N,N-dimethylammonium chloride</td>
<td>3.30</td>
<td>N/E</td>
<td>N/E</td>
<td>N N N</td>
<td>68424-95-3</td>
</tr>
<tr>
<td>N-Alkyl (C_{12-16}) dimethylbenzylammonium chloride</td>
<td>2.20</td>
<td>N/E</td>
<td>N/E</td>
<td>N N N</td>
<td>68424-85-1</td>
</tr>
<tr>
<td>Nonylphenol (branched) Ethoxylate</td>
<td>1.00-5.00</td>
<td>N/E</td>
<td>N/E</td>
<td>N N N</td>
<td>9016-45-9</td>
</tr>
<tr>
<td>Tetrasodium ethylenediamine tetraacetate</td>
<td>&lt; 2.00</td>
<td>N/E</td>
<td>N/E</td>
<td>N N N</td>
<td>64-02-8</td>
</tr>
<tr>
<td>Ethanol</td>
<td>&lt; 2.00</td>
<td>1000 ppm</td>
<td>1000 ppm</td>
<td>N N N</td>
<td>64-17-5</td>
</tr>
</tbody>
</table>

**Key:**

PEL: Permissible Exposure Limit
TLV: Threshold Limit Value
CEILING level

**Limit Value C:** Ceiling level

N/A: Not Applicable
N/D: Not Determined

372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

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**III - Physical Data**

- BOILING POINT (°F): N/D
- VAPOR PRESSURE (mm Hg): N/D
- VAPOR DENSITY (AIR = 1): N/D
- SOLUBILITY IN WATER: Soluble
- APPEARANCE AND ODOR: Clear, colorless liquid; detergent odor.

**IV - Fire and Explosion Hazard Data**

- SPECIFIC GRAVITY (WATER = 1): 1.01
- VOC CONTENT (% by weight): N/D
- EVAPORATION RATE (WATER = 1): N/D
- pH: 12.40

- FLAMMABLE LIMITS IN AIR (VOLUME %):
  - LOWER: N/D
  - UPPER: N/D

- EXTINGUISHING MEDIA: Water, alcohol foam, carbon dioxide, dry chemical.

- SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

- UNUSUAL FIRE AND EXPLOSION HAZARD: Products of combustion are toxic.
PRODUCT NAME: Vanquish

V - Reactivity Data

STABILITY: Stable.
INCOMPATIBILITY: Strong acids.
CONDITIONS TO AVOID: None.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce hydrogen chloride, amines and other organic
materials, oxides of carbon and nitrogen.
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: None

VI - Health Hazard Data

ROUTES OF ENTRY
INHALATION: X
EYE CONTACT: X
SKIN CONTACT: X
INGESTION: 

INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None

EFFECTS OF OVEREXPOSURE
IF IN EYES: Moderate to severe irritation, redness, tearing. Possible burns and irreversible damage may occur with prolonged contact. IF
ON SKIN: Irritation, chapping with prolonged or repeated exposure.
IF SWALLOWED: May be harmful if swallowed. Gastrointestinal irritation, nausea, vomiting, diarrhea.
IF INHALED: May cause headache, irritation to the eyes, nose and throat.

EMERGENCY AND FIRST AID PROCEDURES
IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention. IF
ON SKIN: Flush area with water while removing contaminated clothing. Obtain medical attention if irritation persists. Launder clothing
separately before reuse.
IF SWALLOWED: Contact physician or poison control center immediately. Rinse mouth with water. Do not induce vomiting unless
instructed by a physician or poison control center. Never give anything by mouth to an unconscious person.
IF INHALED: Remove person to fresh air. If victim is not breathing, administer artificial respiration. If victim is breathing, give oxygen.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area and contain spill. Soak up with inert absorbent
material and placed in a closed container for disposal. Flush away residue with water. WASTE DISPOSAL METHOD: Consult local
environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are
exceeded wear a NIOSH approved respirator, following manufacturer’s recommendations.

VENTILATION
LOCAL: Recommended
MECHANICAL: Not required

PROTECTIVE GLOVES: Chemical resistant.

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: Eye wash station.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place. Keep container tightly closed when not in
use.

OTHER PRECAUTIONS: Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: None

DOT CLASS: None

DOT ID NUMBER: None

DOT PACKING GROUP: None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper
shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further
intended, different shipping names and labeling may apply.

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