

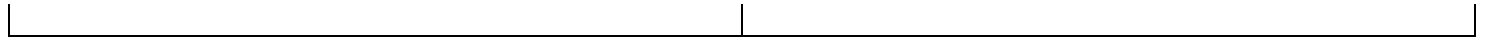
## MATERIAL SAFETY DATA SHEET

| SECTION 1 – PRODUCT IDENTIFICATION AND USE |                               |                    |                               |
|--|-------------------------------|--------------------|-------------------------------|
| MANUFACTURER'S NAME:                       | BIMEDA-MTC ANIMAL HEALTH INC. | SUPPLIER'S NAME:   | BIMEDA-MTC ANIMAL HEALTH INC. |
| STREET ADDRESS:                            | 420 BEAVERDALE ROAD           | STREET ADDRESS:    | 420 BEAVERDALE ROAD           |
| CITY AND PROVINCE:                         | CAMBRIDGE, ONTARIO            | CITY AND PROVINCE: | CAMBRIDGE, ONTARIO            |
| POSTAL CODE:                               | N3C 2W4                       | POSTAL CODE:       | N3C 2W4                       |
| TELEPHONE #                                | 519-654-8000                  | TELEPHONE #        | 519-654-8000                  |
| EMERGENCY RESPONSE:                        | CHEMTREC                      | TELEPHONE #        | 1-800-424-9300                |
| CHEMICAL NAME:                             |                               | CHEMICAL FAMILY:   |                               |
| PRODUCT USE:                               | Broad spectrum disinfectant   |                    | WHMIS CLASSIFICATION: Exempt  |
| PRODUCT CODE:                              | 1CLI001<br>1CLI003            | PRODUCT SIZE:      | 20L<br>4L                     |

| SECTION 2 – HAZARDOUS INGREDIENTS                            |         |            |                 |        |                       |
|--|---------|------------|-----------------|--------|-----------------------|
| HAZARDOUS INGREDIENTS  | % (W/W) | CAS NUMBER | EXPOSURE LIMITS | LC50   | LD50                  |
| Didecyl Dimethyl<br><br>Ammonium Chloride<br>RTECS BP6560000 | 4.6     | 7173-51-5  | n. av.          | n. av. | 84 mg/kg<br>rat oral  |
| n-alkyl Dimethyl<br><br>Ammonium Chloride<br>RTECS B03150000 | 3.1     | 8001-54-5  | n. av.          | n. av. | 240 mg/kg<br>rat oral |

| SECTION 3 – PHYSICAL DATA          |  |                     |   |
|------------------------------------|--|---------------------|---|
| PHYSICAL STATE:<br><br>Liquid      | ODOUR AND APPEARANCE:<br>Floral odour, clear, red, non-viscous solution. |                     | ODOUR THRESHOLD (ppm):<br>n. av.        |
| VAPOUR PRESSURE (mm Hg):<br>n. av. | VAPOUR DENSITY (Air = 1):<br>n. av.                                      |                     | EVAPORATION RATE (Ether = 1):<br>n. av. |
| BOILING POINT (DEG.C):<br>n. av.   | FREEZING POINT (DEG. C):<br>n. av.                                       |                     | CRITICAL TEMPERATURE:                   |
| pH (100%):<br>7.6 – 8.0            | SPECIFIC GRAVITY (H2O = 1):<br>1.0                                       | SOLUBIITY IN WATER: | COEFF: WATER/OIL DIST.:<br>n. av.       |

| SECTION 4 – FIRE AND EXPLOSION DATA   |   |   |
|---|---|---|
| FLAMMABLE:<br>IF YES, UNDER WHICH CONDITIONS: Material does not readily ignite. |   |   |
| MEANS OF EXTINCTION: Dry chemical, water spray or foam.                         |   |   |
| SPECIAL PROCEDURES:   |   |   |
| FLASHPOINT (Deg. C) AND METHOD:<br>n. av.                                       | UPPER FLAMMABLE LIMIT<br>(% BY VOLUME):<br>n. av.                 | LOWER FLAMMABLE LIMIT<br>(% BY VOLUME):<br>n. av. |
| AUTOIGNITION TEMPERATURE (DEG. C):<br>n. av.                                    | HAZARDOUS COMBUSTION PRODUCTS:<br>Carbon monoxide, carbon dioxide |   |
| SENSITIVITY TO IMPACT:  |   | SENSITIVITY TO STATIC DISCHARGE:                  |



| <b>SECTION 5 – REACTIVITY DATA</b>  |  |
|---|--|
| CHEMICAL STABILITY – (IF NO, UNDER WHICH CONDITIONS?)<br>Normally stable  |  |
| INCOMPATIBILITY WITH OTHER SUBSTANCES (IF YES, WHICH ONES?)<br>None known |  |
| REACTIVITY, AND UNDER WHAT CONDITIONS?<br>Will not polymerize             |  |
| HAZARDOUS DECOMPOSITION PRODUCTS:<br>None known                           |  |

| <b>SECTION 6 – TOXICOLOGICAL PROPERTIES</b>                                   |                  |                         |                                |
|---|------------------|-------------------------|--------------------------------|
| ROUTE OF ENTRY:   |                  |                         |                                |
| Skin Contact: Yes   |                  | Skin Absorption: No     | Eye Contact: Yes               |
| Inhalation: No  |                  | Ingestion: Yes          |                                |
| EFFECTS OF ACUTE EXPOSURE TO MATERIAL:<br>n. av.<br>INHALATION:<br>INGESTION: |                  |                         |                                |
| EFFECTS OF CHRONIC EXPOSURE:<br>(SPECIFY SPECIES AND ROUTE):                  |                  |                         | EXPOSURE LIMITS (ACGIH TLV'S): |
|   | LD <sub>50</sub> | LC <sub>50</sub>        |                                |
| IRRITANCY:<br>Skin:<br>Respiratory Tract Sensitization:                       |                  |                         |                                |
| Sensitizing Capability:   |                  | Carcinogenicity: n. av. |                                |
| Reproductive Effects: n. av.  |                  | Synergistic Materials:  |                                |
| Mutagenicity: n. av.  |                  | Teratogenicity: n. av.  |                                |
| Toxicological Synergism: n. av.   |                  |                         |                                |

| <b>SECTION 7 – PREVENTATIVE MEASURES</b>   |  |   |
|--|--|---|
| PERSONAL PROTECTIVE EQUIPMENT:   |  |   |
| GLOVES (Specify):<br>Rubber or latex   | RESPIRATOR (Specify):<br>Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. | EYES (Specify):<br>Goggles and/or safety glasses. |
| SKIN (Specify):<br>Not specified   | CLOTHING (Specify):  | FOOTWEAR (Specify):                               |
| ENGINEERING CONTROLS: General ventilation normally adequate. Local exhaust for dusts, mists or fumes.  |  |   |
| LEAK AND SPILL PROCEDURES: Before attempting clean-up, refer to hazard data given above. - Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered labelled containers. - Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. |  |   |
| WASTE DISPOSAL: Review federal, provincial and local government requirements prior to disposal.  |  |   |
| STORAGE AND HANDLING REQUIREMENTS: Store in closed container. Store away from incompatible materials.  |  |   |
| VENTILATION: Use of local exhaust ventilation is recommended to control emissions near source.   |  |   |
| OTHER PROTECTIVE EQUIPMENT: As required by employer code.  |  |   |

**SECTION 8 – FIRST AID MEASURES**

|             |   |
|-------------|---|
| Eyes:       | Immediately flush with water for 15 minutes. - Call a doctor.   |
| Skin:       | Flush with water. Call a doctor if irritation develops. - Completely decontaminate clothing, shoes and leather goods before reuse or discard.   |
| Ingestion:  | Do not induce vomiting. - Rinse mouth with water, then drink one glass of water. - Contact a doctor immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing. |
| Inhalation: | Remove to fresh air. - If symptoms persist, call a doctor.  |

**SECTION 9 – ADDITIONAL INFORMATION**

|                                   |
|-----------------------------------|
| TDG Shipping Name: Not applicable |
|-----------------------------------|

**SECTION 10 – PREPARATION DATA**

|               |                                  |                   |  |
|---------------|----------------------------------|-------------------|--|
| DATE:         | September 1998                   | TELEPHONE NUMBER: | 519-654-8000   |
| DATE REVISED: | May 2001, August 2002, June 2008 | UPDATED:          | September 2005, September 2007, August 2009, August 2010, May 2014 |

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of the supplier, it is assumed that user of this material has been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact supplier.