

# Material Safety Data Sheet



Betco Daily Disinfectant Dual

## 1. Product and company identification

|                                    |  |
|------------------------------------|--|
| <b>Product name</b>                | : Betco Daily Disinfectant Dual  |
| <b>Supplier</b>                    | : Betco Corporation LTD<br>400 Van Camp Road<br>Bowling Green, OH 43402<br>www.betco.com<br>888-462-3826 |
| <b>Synonym</b>                     | : Not available.   |
| <b>Trade name</b>                  | : Not available.   |
| <b>Material uses</b>               | : Not available.   |
| <b>Manufacturer</b>                | : Betco Corporation LTD<br>Van Camp Road<br>Bowling Green, Ohio 43402<br>www.betco.com<br>888-462-3826   |
| <b>Code</b>                        | : 355CAN   |
| <b>MSDS #</b>                      | : 355CAN   |
| <b>Validation date</b>             | : 3/8/2017   |
| <b>Print date</b>                  | : 3/8/2017   |
| <b><u>In case of emergency</u></b> | : Chemtrec (800) 424-9300  |
| <b>Product type</b>                | : Liquid.  |

## 2. Hazards identification

### Emergency overview

|  |   |
|--|---|
| <b>Physical state</b>                        | : Liquid.   |
| <b>Color</b>                                 | : Orange.   |
| <b>Odor</b>                                  | : Lemon-like.   |
| <b>Signal word</b>                           | : WARNING! (Per WHMIS) CAUTION CORROSIVE POISON (Per Health Canada TPD)   |
| <b>Hazard statements</b>                     | : HARMFUL IF SWALLOWED. CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. (Previous statements per WHMIS). Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. (Previous statements per Health Canada TPD). |
| <b>Precautionary measures</b>                | : Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Avoid prolonged contact with eyes, skin and clothing. Use personal protective equipment as required. Wash thoroughly after handling.                           |
| <b>Routes of entry</b>                       | : Dermal contact. Eye contact. Inhalation. Ingestion.   |
| <b><u>Potential acute health effects</u></b> |   |
| <b>Inhalation</b>                            | : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. (Previous statements per WHMIS). Harmful if inhaled. (Previous statement per Health Canada TPD).   |
| <b>Ingestion</b>                             | : Toxic if swallowed. (Previous statement per WHMIS). Harmful if swallowed. (Previous statement per Health Canada TPD).   |

## 2. Hazards identification

- Skin** : Harmful in contact with skin. Severely irritating to the skin. (Previous statements per WHMIS). Causes skin burns. Harmful if absorbed through the skin. (Previous statements per Health Canada TPD).
- Eyes** : Severely irritating to eyes. Risk of serious damage to eyes. (Previous statements per WHMIS). Causes irreversible eye damage. (Previous statement per Health Canada TPD).
- Potential chronic health effects**
- Chronic effects** : Contains material that may cause target organ damage, based on animal data.
- Carcinogenicity** : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Target organs** : Contains material which may cause damage to the following organs: blood, the nervous system, the reproductive system, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).

### Over-exposure signs/symptoms

- Inhalation** : Not determined.
- Ingestion** : Not determined.
- Skin** : Adverse symptoms may include the following:  
irritation  
redness
- Eyes** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

- Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

| Name  | CAS number | %      |
|---|------------|--------|
| didecyltrimethylammonium chloride                                     | 7173-51-5  | 5 - 10 |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | 68424-85-1 | 5 - 10 |
| tetrasodium ethylene diamine tetraacetate                             | 64-02-8    | 1 - 5  |
| ethanol   | 64-17-5    | 1 - 5  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. In case of contact with eyes, rinse immediately with plenty of water.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

## 4. First aid measures

- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## 5. Fire-fighting measures

- Flammability of the product** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Special remarks on fire hazards** : Not available.
- Special remarks on explosion hazards** : Not available.

## 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
- Methods for cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 6. Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

| <u>Occupational exposure limits</u> |                 | TWA (8 hours) |                   |          | STEL (15 mins) |                   |          | Ceiling |                   |       |           |
|-------------------------------------|-----------------|---------------|-------------------|----------|----------------|-------------------|----------|---------|-------------------|-------|-----------|
| Ingredient                          | List name       | ppm           | mg/m <sup>3</sup> | Other    | ppm            | mg/m <sup>3</sup> | Other    | ppm     | mg/m <sup>3</sup> | Other | Notations |
| ethanol                             | US ACGIH 3/2016 | -             | -                 | -        | 1000           | -                 | -        | -       | -                 | -     |           |
|                                     | AB 4/2009       | 1000          | 1880              | -        | -              | -                 | -        | -       | -                 | -     |           |
|                                     | BC 5/2015       | -             | -                 | -        | 1000           | -                 | -        | -       | -                 | -     |           |
|                                     | ON 7/2015       | -             | -                 | -        | 1000           | -                 | -        | -       | -                 | -     |           |
|                                     | QC 1/2014       | 1000          | 1880              | -        | -              | -                 | -        | -       | -                 | -     |           |
|                                     | SK 7/2013       | -             | -                 | 1000 PPM | -              | -                 | 1250 PPM | -       | -                 | -     |           |

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Engineering measures** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

## 8. Exposure controls/personal protection

- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): butyl rubber
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: splash goggles
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Other protection** : Not available.
- Personal protective equipment (Pictograms)** :



## 9. Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: >100°C (>212°F) [Product does not sustain combustion.]
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Auto-ignition temperature** : Not available.
- Flammable limits** : Not available.
- Color** : Orange.
- Odor** : Lemon-like.
- Taste** : Not available.
- Molecular weight** : Not applicable.
- Molecular formula** : Not applicable.
- pH** : 6 to 8
- Boiling/condensation point** : Not available.
- Melting/freezing point** : Not available.
- Critical temperature** : Not available.
- Relative density** : 1.0053
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Volatility** : Not available.

## 9. Physical and chemical properties

|  |  |
|--|--|
| <b>Odor threshold</b>                        | : Not available.   |
| <b>Evaporation rate</b>                      | : Not available.   |
| <b>SADT</b>                                  | : Not available.   |
| <b>Viscosity</b>                             | : Not available.   |
| <b>Ionicity (in water)</b>                   | : Not available.   |
| <b>Dispersibility properties</b>             | : Not available.   |
| <b>Solubility</b>                            | : Easily soluble in the following materials: cold water. |
| <b>Physical/chemical properties comments</b> | : Not available.   |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Chemical stability</b>                 | : The product is stable.   |
| <b>Conditions to avoid</b>                | : No specific data.  |
| <b>Incompatible materials</b>             | : No specific data.  |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |

## 11. Toxicological information

### Acute toxicity

| Product/ingredient name   | Result                             | Species    | Dose                               | Exposure     |
|---|------------------------------------|------------|------------------------------------|--------------|
| didecyldimethylammonium chloride                                      | LD50 Oral                          | Rat        | 84 mg/kg                           | -            |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | LD50 Oral                          | Rat        | 426 mg/kg                          | -            |
| tetrasodium ethylene diamine tetraacetate                             | LD50 Oral                          | Rat        | 10 g/kg                            | -            |
| ethanol   | LC50 Inhalation Vapor<br>LD50 Oral | Rat<br>Rat | 124700 mg/m <sup>3</sup><br>7 g/kg | 4 hours<br>- |

**Conclusion/Summary** : Not available.

### Chronic toxicity

Not available.

**Conclusion/Summary** : Not available.

### Irritation/Corrosion

| Product/ingredient name   | Result                   | Species | Score | Exposure                | Observation |
|---|--------------------------|---------|-------|-------------------------|-------------|
| didecyldimethylammonium chloride                                      | Skin - Severe irritant   | Rabbit  | -     | 500 milligrams          | -           |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | Skin - Severe irritant   | Rabbit  | -     | 25 milligrams           | -           |
| tetrasodium ethylene diamine tetraacetate                             | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams | -           |
|   | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
| ethanol   | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |

## 11. Toxicological information

|  |                          |        |   |                                    |   |
|--|--------------------------|--------|---|------------------------------------|---|
|  | Eyes - Moderate irritant | Rabbit | - | 0.066666667 minutes 100 milligrams | - |
|  | Eyes - Moderate irritant | Rabbit | - | 100 microliters                    | - |
|  | Eyes - Severe irritant   | Rabbit | - | 500 milligrams                     | - |
|  | Skin - Mild irritant     | Rabbit | - | 400 milligrams                     | - |
|  | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams             | - |

**Conclusion/Summary** : Not available.

### Sensitizer

Not available.

**Conclusion/Summary** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary** : Not available.

### Classification

| Product/ingredient name | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|-------------------------|-------|------|-----|-------|-----|------|
| ethanol                 | A3    | 1    | -   | -     | -   | -    |

### Mutagenicity

Not available.

**Conclusion/Summary** : Not available.

### Teratogenicity

Not available.

**Conclusion/Summary** : Not available.

### Reproductive toxicity

Not available.

**Conclusion/Summary** : Not available.

**Synergistic products** : Not available.

## 12. Ecological information

**Ecotoxicity** : Water polluting material. May be harmful to the environment if released in large quantities.

### Aquatic ecotoxicity

| Product/ingredient name           | Result                           | Species  | Exposure |
|-----------------------------------|----------------------------------|--|----------|
| didecyltrimethylammonium chloride | Acute EC50 110 µg/l Fresh water  | Algae - Chlorella pyrenoidosa - Exponential growth phase                     | 72 hours |
|                                   | Acute EC50 14.22 ppb Fresh water | Algae - Pseudokirchneriella subcapitata                                      | 96 hours |
|                                   | Acute EC50 18 ppb Fresh water    | Daphnia - Daphnia magna  | 48 hours |
|                                   | Acute LC50 39 µg/l Marine water  | Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
|                                   | Acute LC50 0.01 µg/l Fresh water | Fish - Acipenser transmontanus - Larvae                                      | 96 hours |
|                                   | Chronic NOEC 25 µg/l Fresh water | Algae - Pseudokirchneriella  | 72 hours |

## 12. Ecological information

|   |  |   |  |
|---|--|---|--|
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | Chronic NOEC 125 µg/l Fresh water<br>Acute EC50 670 µg/l Fresh water   | subcapitata - Exponential growth phase<br>Daphnia - Daphnia magna<br>Algae - Chlorella pyrenoidosa - Exponential growth phase | 21 days<br>96 hours                        |
|   | Acute EC50 5.9 ppb Fresh water<br>Acute LC50 64 ppb Fresh water<br>Chronic NOEC 4.15 ppb Marine water<br>Chronic NOEC 32.2 ppb | Daphnia - Daphnia magna<br>Fish - Oncorhynchus mykiss<br>Daphnia - Daphnia magna<br>Fish - Pimephales promelas                | 48 hours<br>96 hours<br>21 days<br>34 days |
|   | tetrasodium ethylene diamine tetraacetate<br>ethanol   | Fish - Lepomis macrochirus  | 96 hours                                   |
|   | Acute EC50 17.921 mg/l Marine water<br>Acute EC50 2000 µg/l Fresh water<br>Acute LC50 25500 µg/l Marine water                  | Algae - Ulva pertusa<br>Daphnia - Daphnia magna<br>Crustaceans - Artemia franciscana - Larvae                                 | 96 hours<br>48 hours<br>48 hours           |
|   | Acute LC50 42000 µg/l Fresh water<br>Chronic NOEC 4.995 mg/l Marine water<br>Chronic NOEC 100 µl/L Fresh water                 | Fish - Oncorhynchus mykiss<br>Algae - Ulva pertusa<br>Daphnia - Daphnia magna - Neonate                                       | 4 days<br>96 hours<br>21 days              |
|   | Chronic NOEC 0.375 µl/L Fresh water  | Fish - Gambusia holbrooki - Larvae  | 12 weeks                                   |

**Conclusion/Summary** : Not available.

**Persistence/degradability**

Not available.

**Conclusion/Summary** : Not available.

**Partition coefficient: n-octanol/water** : Not available.

**Bioconcentration factor** : Not available.

**Mobility** : Not available.

**Toxicity of the products of biodegradation** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.









**Waste stream** : Not available.

**RCRA classification** : Not available.


Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

| Regulatory information       | UN number | Proper shipping name  | Classes | PG* | Label  | Additional information  |
|------------------------------|-----------|---|---------|-----|--|---|
| <b>DOT Classification</b>    | 1903      | Disinfectants, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compound)   | 8       | III |   | <b>Limited quantity</b><br>Yes.   |
| <b>TDG Classification</b>    | 1903      | Disinfectants, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compound). Marine pollutant (didecyldimethylammonium chloride, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides) | 8       | III | <br>     | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).<br><br>The marine pollutant mark is not required when transported by road or rail. |
| <b>Mexico Classification</b> | 1903      | Disinfectants, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compound)   | 8       | III |    | -   |
| <b>ADR/RID Class</b>         | 1903      | Disinfectant, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compound), Marine Pollutant (didecyldimethylammonium chloride, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)  | 8       | III | <br> | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  |
| <b>IMDG Class</b>            | 1903      | Disinfectant, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compound). Marine pollutant (didecyldimethylammonium chloride, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)  | 8       | III | <br> | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.   |
|                              |           |   |         |     |  |   |

## 14. Transport information

|                       |      |   |   |     |   |  |
|-----------------------|------|---|---|-----|---|--|
| <b>IATA-DGR Class</b> | 1903 | Disinfectants, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compound) | 8 | III |  | The environmentally hazardous substance mark may appear if required by other transportation regulations. |
|-----------------------|------|---|---|-----|---|--|

PG\* : Packing group

## 15. Regulatory information

**United States inventory (TSCA 8b)** : Not determined.

**WHMIS (Canada)** : Class D-1B: Material causing immediate and serious toxic effects (Toxic).  
Class E: Corrosive material

### Canadian lists

**Canadian NPRI** : The following components are listed: Ethanol

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### International regulations

**International lists** :

- Australia inventory (AICS)**: Not determined.
- China inventory (IECSC)**: Not determined.
- Japan inventory (ENCS)**: Not determined.
- Japan inventory (ISHL)**: Not determined.
- Korea inventory**: Not determined.
- Malaysia Inventory (EHS Register)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- Philippines inventory (PICCS)**: Not determined.
- Taiwan Chemical Substances Inventory (TCSI)**: Not determined.
- Turkey inventory**: Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

## 16. Other information

**Label requirements** : HARMFUL IF SWALLOWED. CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. (Previous statements per WHMIS). Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. (Previous statements per Health Canada TPD).

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

Health

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2

## 16. Other information

|                  |   |
|------------------|---|
| Flammability     | 1 |
| Physical hazards | 0 |
|                  |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**References** : Not available.

**Other special considerations** : Not available.

**Date of printing** : 3/8/2017

**Date of issue** : 3/8/2017

**Date of previous issue** : 1/24/2017

**Version** : 0.02

**Prepared by** : Not available.

📄 Indicates information that has changed from previously issued version.

### 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.