SAFETY DATA SHEET

Virex II 256 One-Step Disinfectant Cleaner and Deodorant; Quat Based Disinfectant

Version Number: 1
Preparation date: 2014-10-09

1. IDENTIFICATION

Product name: Virex II 256 One-Step Disinfectant Cleaner and Deodorant; Quat Based Disinfectant
Product Code: 04329, 04331, 04332, 3062637, 3062768, 5019317, 5271416
SDS #: MS0800549
Recommended use: • Disinfectant
Uses advised against: • This product is intended to be diluted prior to use

Emergency telephone number: 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

2. HAZARDS IDENTIFICATION

Classification for the undiluted product
Acute oral toxicity Category 4
Skin corrosion/irritation Category 1B
Serious eye damage/eye irritation Category 1
Flammability Combustible liquid, Category 4

Signal Word: Danger.

Precautionary Statements
CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. HARMFUL IF SWALLOWED. COMBUSTIBLE LIQUID.
Causes burns/ serious damage to mouth, throat and stomach. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Do not
breathe spray. Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product. Wear chemical-splash goggles,
chemical-resistant gloves and protective footwear. Keep away from flames and hot surfaces. No smoking. Store in a well-ventilated place. Keep
cool. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting unless directed to do so by medical personnel. Drink a cupful of milk or water. IF
ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. IF INHALED: Remove person to
fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
easy to do. Continue rinsing for at least 15 minutes. Immediately call a Poison Center (1-800-851-7145) or physician. Wash contaminated clothing
before reuse. In case of fire: Use CO2, dry chemical, or foam to extinguish. Dispose of in accordance with all federal, state and local applicable
regulations. SUPPLEMENTAL INFORMATION: Mix only with water. DO NOT MIX WITH BLEACH OR ANY OTHER PRODUCT OR CHEMICAL.
Can react to release chlorine gas.

Health hazards not otherwise classified (HHNOC) - Not applicable
Physical hazards not otherwise classified (PHNOC) - Not applicable

Percentage of unknown Acute Toxicity 1.23001

Classification for the diluted product @ 1:256
This product, when diluted as stated on the label, is not classified as hazardous according to OSHA 29CFR 1910.1200 (HazCom 2012-GHS) and Canadian Hazardous Products Regulations (HPR) (WHMIS 2015-GHS).

Precautionary Statements
None required.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Classified Ingredients</th>
<th>CAS</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Didecyl dimethyl ammonium chloride</td>
<td>7173-51-5</td>
<td>5 - 10%</td>
</tr>
<tr>
<td>n-alkyl dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>5 - 10%</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>3% - &lt; 5%</td>
</tr>
<tr>
<td>Tetrasodium salt of EDTA</td>
<td>64-02-8</td>
<td>1% - &lt; 3%</td>
</tr>
<tr>
<td>Lauryl dimethyl amine oxide</td>
<td>1643-20-5</td>
<td>1% - &lt; 3%</td>
</tr>
<tr>
<td>Sodium sesquicarbonate</td>
<td>533-96-0</td>
<td>1% - &lt; 3%</td>
</tr>
</tbody>
</table>

*Exact percentages are being withheld as trade secret information

4. FIRST AID MEASURES

Undiluted Product:

**Eyes**: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes.
**Skin**: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes.
**Inhalation**: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
**Ingestion**: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting unless directed to do so by medical personnel. Drink a cupful of milk or water.

**Notes to physician**: Probable mucosal damage may contraindicate the use of gastric lavage.

**Most Important Symptoms/Effects**: No information available.
**Immediate medical attention and special treatment needed**: Not applicable.
**Aggravated Medical Conditions**: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

Diluted Product:

**Eyes**: Rinse with plenty of water if irritation occurs and persists, get medical attention.
**Skin**: Rinse with plenty of water if irritation occurs and persists, get medical attention.
**Inhalation**: No specific first aid measures are required
**Ingestion**: Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

**Specific methods**: No special methods required
**Suitable extinguishing media**: Use dry chemical, CO2, water spray or "alcohol" foam.
**Specific hazards**: Although this product has a flash point below 200 Deg. F, it is an aqueous solution containing an alcohol and does not sustain combustion.

**Special protective equipment for firefighters**: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
**Extinguishing media which must not be used for safety reasons**: No information available.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Put on appropriate personal protective equipment (see Section 8.).
Environmental precautions and clean-up methods: Clean-up methods - large spillage. Remove all sources of ignition. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling: Can react to release chlorine gas. Avoid contact with skin, eyes and clothing. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. COMBUSTIBLE LIQUID AND VAPOR. Use only in well-ventilated areas. Mix only with water. DO NOT MIX WITH BLEACH OR ANY OTHER PRODUCT OR CHEMICAL. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage: Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. KEEP OUT OF REACH OF CHILDREN.
Aerosol Level (if applicable): Not applicable

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Didecyl dimethyl ammonium chloride</td>
<td>7173-51-5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>n-alkyl dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>1000 ppm (STEL)</td>
<td>1900 mg/m³ (TWA)</td>
</tr>
<tr>
<td>Tetrasodium salt of EDTA</td>
<td>64-02-8</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Lauryl dimethyl amine oxide</td>
<td>1643-20-5</td>
<td>-</td>
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<td>533-96-0</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Undiluted Product:

Engineering measures to reduce exposure: Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

Personal Protective Equipment

Eye protection: Chemical-splash goggles.
Hand protection: Chemical-resistant gloves.
Skin and body protection: Protective footwear. If major exposure is possible, wear suitable protective clothing and footwear.
Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Diluted Product:

Personal Protective Equipment

Eye protection: No personal protective equipment required under normal use conditions.
Hand protection: No personal protective equipment required under normal use conditions.
Skin and body protection: No personal protective equipment required under normal use conditions.
Respiratory protection: No personal protective equipment required under normal use conditions.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Evaporation Rate: No information available
Odor threshold: No information available.
Melting point/range: Not determined
Autoignition temperature: No information available
Solubility in other solvents: No information available
Density: 8.34 lbs/gal 1 Kg/L
Bulk density: No information available
Flash point: 187 °F  86.1 °C
Boiling point/range: Not determined
Decomposition temperature: Not determined
Solubility: Completely Soluble
Relative Density (relative to water): 1.0
Vapor density: No information available
Vapor pressure: No information available
Partition coefficient (n-octanol/water): No information available
Viscosity: No information available
Elemental Phosphorus: 0.00 % by wt.
Elemental Phosphorus: 0.00 % by wt.
VOC: 3.58 %
VOC % by wt. at use dilution 0.01 %
Flammability (Solid or Gas): Not applicable

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10. STABILITY AND REACTIVITY

Reactivity: Not Applicable
Stability: The product is stable
Hazardous decomposition products: None reasonably foreseeable.
Materials to avoid: Oxidizing agents. Anionic surfactant. Do not mix with chlorinated products (such as bleach).
Conditions to avoid: Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Do not mix with any other product or chemical.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:
Eye contact, Skin contact, Inhalation, Ingestion

Delayed, immediate, or chronic effects and symptoms from short and long-term exposure:

Skin contact: Corrosive. Causes severe burns. Symptoms may include burns, blisters, redness and pain (which may be delayed).
Eye contact: Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.
Ingestion: Causes burns/serious damage to mouth, throat and stomach. Symptoms may include stomach pain and nausea. Harmful if swallowed. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.
Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.
Sensitization: No known effects.
Target Organs (SE): None known
Target Organs (RE): None known

Carcinogen Listings: Statement per route of exposure or specific component
Ethyl alcohol is only classified as an IARC 1 carcinogen when it is meant for ingestion in alcoholic beverages. We do not produce alcoholic beverages; therefore it is not considered a carcinogen in our products.

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td></td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Numerical measures of toxicity

ATE - Oral (mg/kg): 1700
ATE - Dermal (mg/kg): >5000
ATE - Inhalatory, mists (mg/l): >20
Percentage of unknown Acute Toxicity: 1.23001

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. This product, as sold, if discarded or disposed, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Dispose in compliance with all Federal, state, provincial, and local laws and regulations. This product, when diluted as stated on this SDS, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the
waste solution meets RCRA criteria for hazardous waste. Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

**Contaminated Packaging:** Do not re-use empty containers.

**RCRA Hazard Class (undiluted product):** Not Regulated

**RCRA Hazard Class (diluted product):** Not Regulated

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**14. TRANSPORT INFORMATION**

**DOT/TDG/IMDG:** Proper shipping descriptions can vary by pack size. Please refer to the Diversey HazMat Library, [only available through Internet Explorer](http://naextranet.diversey.com/dot/), for up to date shipping information.

**DOT (Ground) Bill of Lading Description:** UN1903, DISINFECTANTS, LIQUID, CORROSIVE, N.O.S., (quaternary ammonium compounds), 8, III

**IMDG (Ocean) Bill of Lading Description:** UN1903, DISINFECTANTS, LIQUID, CORROSIVE, N.O.S., (quaternary ammonium compounds), 8, III, MARINE POLLUTANT

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**15. REGULATORY INFORMATION**

**International Inventories at CAS# Level**
All components of this product are listed on the following inventories: U.S.A. (TSCA).

**U.S. Regulations**

**EPA Reg. No.:** 70627-24
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**DANGER:** CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear chemical splash-proof goggles or face shield, rubber gloves and protective clothing. Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

**California Proposition 65:** This product is not subject to the reporting requirements under California's Proposition 65.

**RIGHT TO KNOW (RTK)**

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>MARTK:</th>
<th>NJRTK:</th>
<th>PARTK:</th>
<th>RIRTK:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Didecyl dimethyl ammonium chloride</td>
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<td>64-17-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
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</tbody>
</table>

**CERCLA/ SARA**

**SARA 311/312 Hazard Categories**

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate:</td>
<td>x</td>
</tr>
<tr>
<td>Delayed:</td>
<td>-</td>
</tr>
<tr>
<td>Fire:</td>
<td>x</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>-</td>
</tr>
<tr>
<td>Sudden Release of Pressure:</td>
<td>-</td>
</tr>
</tbody>
</table>

**Canadian Regulations**

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**16. OTHER INFORMATION**

**NFPA (National Fire Protection Association)**
Rating Scale: (Low Hazard) 0 - 4 (Extreme Hazard)
Virex II 256 One-Step Disinfectant Cleaner and Deodorant; Quat Based Disinfectant