# 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>Monarch Disinfectant Spray</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td></td>
</tr>
<tr>
<td>Synonyms</td>
<td>EPA Reg. No. 88494-1-89494</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Disinfectant</td>
</tr>
<tr>
<td>Recommended restrictions</td>
<td>None known.</td>
</tr>
<tr>
<td>Manufacturer information</td>
<td>Air Techniques, Inc.</td>
</tr>
<tr>
<td></td>
<td>1295 Walt Whitman Road</td>
</tr>
<tr>
<td></td>
<td>Melville, NY 11747-3062</td>
</tr>
<tr>
<td></td>
<td>Phone: 516-214-5631</td>
</tr>
<tr>
<td></td>
<td>FAX: 516-433-2768</td>
</tr>
<tr>
<td>Supplier</td>
<td>See above.</td>
</tr>
</tbody>
</table>

## 2. Hazards Identification

<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>Flammable liquids</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>Acute toxicity, inhalation</td>
<td>Category 4</td>
</tr>
<tr>
<td></td>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity, single exposure</td>
<td>Category 3 respiratory tract irritation</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity, single exposure</td>
<td>Category 3 narcotic effects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental hazards</th>
<th>Not classified.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHMIS 2015 defined hazards</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Label elements

- **Signal word**: Danger
- **Hazard statement**: Highly flammable liquid and vapor. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.

### Precautionary statement

#### Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges.

#### Response

In case of fire: Use appropriate media to extinguish.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

#### Storage

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)**: None known
- **WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)**: None known
- **Hazard(s) not otherwise classified (HNOC)**: None known.
Supplemental information

US: This is a registered EPA product. The product labeling is in compliance with EPA regulations and guidelines. This chemical is a disinfectant 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-disinfectant chemicals. The hazard information required on the disinfectant label is reproduced below. The disinfectant label also includes other important information, including directions for use.

PRECAUTIONARY STATEMENTS:
Hazards to humans and Domestic animals.
CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating and drinking, chewing gum, using tobacco or using toilet. Flammable. Keep away from heat or open flame.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>Ethanol</td>
<td></td>
<td>64-17-5</td>
<td>72.5</td>
</tr>
<tr>
<td>Didecyl dimethyl ammonium chloride</td>
<td></td>
<td></td>
<td>7173-51-5</td>
<td>0.33</td>
</tr>
</tbody>
</table>

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin contact
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Eye contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion
Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.

Most important symptoms/effects, acute and delayed
Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Symptoms may be delayed.

General information
Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center [NPIC] at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time [NPIC Web site: www.npic.orst.edu].

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Wear safety glasses with side shields. Protective gloves recommended based on infection control best practices. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media
Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus.
**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>TWA</td>
<td>1880 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

**Precautions for handling**

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharge. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Use only with adequate ventilation. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. Keep container tightly closed. When using do not eat or drink.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to prevent static electricity. Store in a closed container away from incompatible materials. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. PESTICIDE STORAGE: Always store this product and all pesticides in the original container. If a leaky container must be contained within another, mark the outer container to identify the contents. Protect from extreme heat or cold.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>TWA</td>
<td>1880 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>PEL</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>TWA</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields.

Skin/Hand protection

Product is not irritating to skin based on test data. Protective gloves recommended based on infection control best practices.

Other Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards

Not applicable.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance

Clear

Physical state

Liquid.

Form

Liquid

Color

Colorless

Odor

Alcohol

 Odor threshold

Not available.

pH

3.7 @ 77°F

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Pour point

Not available.

Specific gravity

Not available.
Partition coefficient (n-octanol/water) Not available.
Flash point 65.3 °F (18.5 °C) Tag Closed Cup
Evaporation rate Not available.
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits
- Flammability limit - lower (%) Not available.
- Flammability limit - upper (%) Not available.
- Explosive limit - lower (%) Not available.
- Explosive limit - upper (%) Not available.

Vapor pressure Not available.
Vapor density Not available.
Relative density Not available.
Solubility(ies) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity 3.23 cSt @ 68°F
Other information
- Density 0.86

10. Stability and Reactivity
Reactivity This product may react with strong oxidizing agents.
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.
Chemical stability Stable under recommended storage conditions.
Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals.
Incompatible materials Strong oxidizing agents.
Hazardous decomposition products May include and are not limited to: Oxides of carbon.

11. Toxicological Information
Routes of exposure Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure
- Ingestion May cause stomach distress, nausea or vomiting.
- Inhalation Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Harmful if inhaled. Prolonged inhalation may be harmful.
- Skin contact No adverse effects due to skin contact are expected. Non-irritating based on test data.
- Eye contact Moderate eye irritation

Symptoms related to the physical, chemical and toxicological characteristics
Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects
Acute toxicity Harmful if inhaled. Narcotic effects. May cause respiratory irritation.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg, Tested</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhala</td>
<td>Rat</td>
<td>&gt; 2.1 mg/L, Tested</td>
</tr>
<tr>
<td>LC50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg, Tested</td>
</tr>
<tr>
<td>Components</td>
<td>Species</td>
<td>Test Results</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>------------------</td>
<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Didecyl dimethyl ammonium chloride (CAS 7173-51-5)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td>Rabbit</td>
<td>500 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 1000 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>268 mg/kg</td>
</tr>
<tr>
<td>Rat</td>
<td>329 mg/kg</td>
<td>84 mg/kg</td>
</tr>
<tr>
<td><strong>Ethanol (CAS 64-17-5)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td>Rabbit</td>
<td>&gt; 15800 mg/kg, SIDS initial assessment report</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Cat</td>
<td>85.4 mg/L, 4.5 Hours, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>43.7 mg/L, 6 Hours, ECHA</td>
</tr>
<tr>
<td>Mouse</td>
<td></td>
<td>&gt; 60000 ppm, 60 Minutes, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>79.4 mg/L, 134 Minutes, ECHA</td>
</tr>
<tr>
<td>Rat</td>
<td></td>
<td>&gt; 115.9 mg/L, 4 Hours, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31623 ppm, 4 Hours, HMIRA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20000 ppm, 10 Hours, HSDB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>51.3 mg/L, 6 Hours, ECHA</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Dog</td>
<td>5.5 g/kg, HSDB</td>
</tr>
<tr>
<td>Guinea pig</td>
<td>5600 mg/kg, HSDB</td>
<td></td>
</tr>
<tr>
<td>Monkey</td>
<td>6000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Mouse</td>
<td>10500 ml/kg, ECHA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3450 mg/kg, SAX</td>
</tr>
<tr>
<td>Pig</td>
<td></td>
<td>&gt; 5000 mg/kg, ECHA</td>
</tr>
<tr>
<td>Rat</td>
<td></td>
<td>1187 - 2769 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12400 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10470 mg/kg, ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7800 ml/kg, ECHA</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td></td>
<td>Prolonged skin contact may cause temporary irritation.</td>
</tr>
<tr>
<td>Exposure minutes</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Erythema value</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Oedema value</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
<td></td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Corneal opacity value</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Iris lesion value</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Conjunctival reddening value</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Conjunctival oedema value</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Recover days</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitization</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td></td>
<td>This product is not expected to cause skin sensitization.</td>
</tr>
<tr>
<td><strong>Skin sensitization</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Mutagenicity
Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity

Canada - Manitoba OELs: carcinogenicity
ETHANOL (CAS 64-17-5)
Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity
Ethanol (CAS 64-17-5)
Volume 44, Volume 96, Volume 100E
Volume 96, Volume 100E

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
Ethanol (CAS 64-17-5) when ingested.
Ethanol is not considered to be a Prop 65 component for this product. This product is not an alcoholic beverage for consumption.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Reproductive toxicity
Not available.

Teratogenicity
Non-hazardous by WHMIS/OSHA criteria.

Specific target organ toxicity - single exposure
Respiratory tract irritation. Narcotic effects.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not available.

Chronic effects
Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity
See below

Ecotoxicological data
Species

Components

Test Results

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

Aquatic

Fish

LC50

White sturgeon (Acipenser transmontanus)

0.001 - 0.01 mg/L, 96 hours

Ethanol (CAS 64-17-5)

Crustacea

EC50

Daphnia

11744.5 mg/L, 48 Hours

Aquatic

Crustacea

EC50

Water flea (Daphnia magna)

7.7 - 11.2 mg/L, 48 hours

Fish

LC50

Fathead minnow (Pimephales promelas)

> 100 mg/L, 96 hours

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

Mobility in general
Not available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions
Do not contaminate water, food or feed by storage or disposal.
PESTICIDE DISPOSAL: Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Offer for recycling if available, or discard empty container in trash.
CONTAINER DISPOSAL: Refillable container. Refill plastic canister with this brand of pesticide product only. Do not reuse this container for any other purpose. Offer plastic container for recycling if available, or discard in trash.
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001.
Dispose of contents/container in accordance with all applicable regulations.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
D001: Waste Flammable material with a flash point <140 F
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification
Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

General
IATA:
- Passenger and Cargo Aircraft: Limited Quantity: Pkg Inst: Ltd Qty Y341
- Passenger and Cargo Aircraft: Limited Quantity: Pkg Inst: Max Net Qty/Pkg 1L
- Passenger and Cargo Aircraft: Pkg Inst: Pkg Inst 352
- Passenger and Cargo Aircraft: Pkg Inst: Max Net Qty/Pkg 1L
- CARGO Aircraft Only: Pkg Inst 364
- CARGO Aircraft Only: Max Net Qty/Pkg 60L

IMDG:
- Special Provisions: 274
- Limited Quantity: 1L
- Excepted Quantity: E2
- Packing Instructions: P001
- IBC Instructions: IBC02
- Portable Tanks and Bulk Containers:
  - Tank Instructions: T7 Provisions: TP2, TP13
  - Stowage and Handling: Category B, SW2

U.S. Department of Transportation (DOT)
Basic shipping requirements:
- UN number: UN1992
- Proper shipping name: Flammable liquids, toxic, n.o.s.
- Technical name: Ethanol
- Hazard class: Limited Quantity - US
- Packing group: II
- Special provisions: IB2, T7, TP2, TP13
- Packaging exceptions: <0.3 Gal-Consumer Commodity ORM-D/Limited Quantity
- Packaging non bulk: 202
- Packaging bulk: 243

Transportation of Dangerous Goods (TDG - Canada)
Basic shipping requirements:
- UN number: UN1992
- Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S.
- Technical name: Ethanol
- Hazard class: Limited Quantity - Canada
- Packing group: II
- Special provisions: 16
- Packaging exceptions: <1L - Limited Quantity

IATA/ICAO (Air)
Basic shipping requirements:
- UN number: UN1992
- Proper shipping name: Flammable liquid, toxic, n.o.s.
- Technical name: Ethanol
- Hazard class: Limited Quantity - IATA
- Packing group: II
- ERG code: 3HP

IMDG (Marine Transport)
Basic shipping requirements:
- UN number: UN1992
- Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S.
- Technical name: Ethanol
- Hazard class: Limited Quantity - IMDG
- Packing group: II
- Marine pollutant: Yes
- EmS: F-E, S-D
15. Regulatory Information

**Canadian federal regulations**
This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).
This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.
Exempt - Un-Registered product
KEEP OUT OF REACH OF CHILDREN.
CAUTION
PRECAUTIONARY STATEMENTS:
Hazards to humans and Domestic animals.
CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating and drinking, chewing gum, using tobacco or using toilet.

**PHYSICAL OR CHEMICAL HAZARDS**
Flammable. Keep away from heat or open flame.

**Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number**
Ethanol (CAS 64-17-5) 1 TONNES

**Export Control List (CEPA 1999, Schedule 3)**
Not listed.

**Greenhouse Gases**
Not listed.

**Precursor Control Regulations**
Not regulated.

**WHMIS 2015 Exemptions**
Not applicable
US federal regulations

This is a registered EPA product. The product labeling is in compliance with EPA regulations and guidelines.

This chemical is a disinfectant 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-disinfectant chemicals. The hazard information required on the disinfectant label is reproduced below. The disinfectant label also includes other important information, including directions for use.

EPA Registration No. - EPA 88494-1-89494

PRECAUTIONARY STATEMENTS:
Hazards to humans and Domestic animals.
CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating and drinking, chewing gum, using tobacco or using toilet.

Flammable. Keep away from heat or open flame.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - No
- Fire Hazard - Yes
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance
No

SARA 311/312 Hazardous chemical
No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

US state regulations

US - California Hazardous Substances (Director’s): Listed substance
Ethanol (CAS 64-17-5) Listed.

Ethanol (CAS 64-17-5)

US - Louisiana Spill Reporting: Listed substance
Ethanol (CAS 64-17-5)

US - Minnesota Haz Subs: Listed substance
Ethanol (CAS 64-17-5) Listed.

US - New Jersey RTK - Substances: Listed substance
Ethanol (CAS 64-17-5)

US - Texas Effects Screening Levels: Listed substance
Didecyl dimethyl ammonium chloride (CAS 7173-51-5) Listed.
Ethanol (CAS 64-17-5) Listed.

US. Massachusetts RTK - Substance List
Ethanol (CAS 64-17-5)

US. New Jersey Worker and Community Right-to-Know Act
Not regulated.

US. Pennsylvania Worker and Community Right-to-Know Law
Ethanol (CAS 64-17-5)

US. Rhode Island RTK
Ethanol (CAS 64-17-5)
US. California Proposition 65
Ethanol is not considered to be a Prop 65 component for this product. The product is not an alcoholic beverage for consumption.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
Ethanol (CAS 64-17-5) Listed: April 29, 2011
Listed: July 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin
Ethanol (CAS 64-17-5) Listed: October 1, 1987

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
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<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
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<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
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<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
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*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

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<td>Moderate</td>
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<tr>
<td>Slight</td>
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<tr>
<td>Minimal</td>
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Disclaimer
The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein 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 control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. 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 document.

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Prepared by North American Infection Control Ltd.
Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.