1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>VistaTab™ Antimicrobial Tablets</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS #</td>
<td>Mixture</td>
</tr>
<tr>
<td>Product use</td>
<td>Cleaning of microbial contaminants in dental unit waterlines</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Hu-Friedy Mfg. Co., LLC</td>
</tr>
<tr>
<td></td>
<td>3232 N. Rockwell</td>
</tr>
<tr>
<td></td>
<td>Chicago, IL 60618-5982 US</td>
</tr>
<tr>
<td></td>
<td>Phone: 773.975.6100</td>
</tr>
<tr>
<td></td>
<td>Fax: 773.868.3599</td>
</tr>
<tr>
<td></td>
<td>Emergency Phone: 1-800-535-5053</td>
</tr>
<tr>
<td></td>
<td>Outside US: 001-352-323-3500</td>
</tr>
</tbody>
</table>

2. Hazards Identification

**Emergency overview**

WARNING

Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

MAY CAUSE SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

Upon exposure to water or water vapour, chlorine dioxide gas is released.

**Potential short term health effects**

- **Routes of exposure**
  - Eye, Skin contact, Inhalation, Ingestion.

- **Eyes**
  - Moderately irritating to the eyes.

- **Skin**
  - Non-irritating based on test data.

- **Inhalation**
  - Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

- **Ingestion**
  - May cause stomach distress, nausea or vomiting.

**Target organs**

- Eyes. Respiratory system.

**Chronic effects**

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms**

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**OSHA Regulatory Status**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential environmental effects**

Components of this product have been identified as having potential environmental concerns.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bisulfate</td>
<td>7681-38-1</td>
<td>15 - 40</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Sodium dichloroisocyanurate dihydrate</td>
<td>51580-86-0</td>
<td>0.5 - 1.5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**First aid procedures**

- **Eye contact**
  - Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 20 minutes. Obtain medical attention immediately.

- **Skin contact**
  - Brush away excess of dry material. Immediately flush with cool water for 15 minutes. Obtain medical attention if irritation persists. Wash contaminated clothing well before reuse or discard.

- **Inhalation**
  - If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

- **Ingestion**
  - Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
General advice
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties
Not flammable by WHMIS/OSHA criteria. This substance is an oxidizing agent and can supply oxygen to stimulate or accelerate the combustion of organic or other combustible substances.

Extinguishing media
- Suitable extinguishing media: Water.

Protection of firefighters
- Specific hazards arising from the chemical: Upon exposure to water or water vapour, chlorine dioxide gas is released.
- Protective equipment for firefighters: Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products
May include and are not limited to: Oxides of carbon.

Explosion data
- Sensitivity to mechanical impact: Not available
- Sensitivity to static discharge: Not available

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions
Prevent further leakage or spillage if safe to do so.

Methods for containment
Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up
Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling
Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

Storage
Keep out of reach of children. Store in a cool, dry, well-ventilated place away from incompatible materials. Keep this material away from food, drink and animal feed.
### 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bisulfate</td>
<td>ACGIH-TLV Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL Not established</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>ACGIH-TLV Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL Not established</td>
</tr>
<tr>
<td>Sodium dichloroisocyanurate dihydrate</td>
<td>ACGIH-TLV Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL Not established</td>
</tr>
</tbody>
</table>

**Engineering controls**
- Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**
- **Eye / face protection**: Wear safety glasses with side shields.
- **Hand protection**: Rubber gloves. Confirm with a reputable supplier first.
- **Skin and body protection**: As required by employer code.
- **Respiratory protection**: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Avoid inhalation of dust. Avoid breathing mists or vapors.
- **General hygiene considerations**: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Tablet</td>
</tr>
<tr>
<td>Color</td>
<td>Blue</td>
</tr>
<tr>
<td>Form</td>
<td>Powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Odor threshold</td>
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<tr>
<td>Physical state</td>
<td>Solid</td>
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<tr>
<td>pH</td>
<td>6 - 7</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
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</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
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<td>Flammability limits in air, lower, % by volume</td>
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</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
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<tr>
<td>Vapor pressure</td>
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</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
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</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Octanol/water coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Soluble</td>
</tr>
<tr>
<td>VOC (Weight %)</td>
<td>Not available</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity
Upon exposure to water or water vapour, chlorine dioxide gas is released.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
Heat. Exposure to light. Do not mix with other chemicals.

Incompatible materials

Hazardous decomposition products
May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Acute effects
Acute LD50: 3129 mg/kg, Rat, Oral
Acute LD50: 5000 mg/kg, Rat, Dermal

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bisulfate</td>
<td>Not available</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>0.29 mg/l/4h rat</td>
</tr>
<tr>
<td>Sodium dichloroisocyanurate dihydrate</td>
<td>&gt; 1637.5 Mg/m3/4H rat</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bisulfate</td>
<td>2490 mg/kg rat</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>165 mg/kg rat</td>
</tr>
<tr>
<td>Sodium dichloroisocyanurate dihydrate</td>
<td>620 mg/kg rat</td>
</tr>
</tbody>
</table>

Effects of acute exposure

Eye
Moderately irritating to the eyes.

Skin
Non-irritating based on test data.

Inhalation
Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion
May cause stomach distress, nausea or vomiting.

Sensitization
Non-hazardous by WHMIS/OSHA criteria.

Chronic effects
Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity
Non-hazardous by WHMIS/OSHA criteria.

IARC - Group 3 (Not Classifiable)
Sodium chlorite 7758-19-2 Monograph 52 [1991]

Mutagenicity
Non-hazardous by WHMIS/OSHA criteria.

Reproductive effects
Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity
Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Products
Not available

12. Ecological Information

Ecotoxicity
Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish - Acute Toxicity Data
Sodium chlorite 7758-19-2 96 Hr LC50 Brachydanio rerio: 100 - 500 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >100 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: >100 mg/L [static]

Ecotoxicity - Water Flea - Acute Toxicity Data
Sodium bisulfate 7681-38-1 48 Hr EC50 Daphnia magna: 190 mg/L
Sodium chlorite 7758-19-2 48 Hr EC50 Daphnia magna: 0.026 mg/L; 48 Hr EC50 Daphnia magna: 0.25 - 0.33 mg/L [Flow through]; 48 Hr EC50 Daphnia magna: 0.012 - 0.018 mg/L [Static]

Persistence / degradability
Not available
13. Disposal Considerations

**Disposal instructions**
Review federal, state/provincial, and local government requirements prior to disposal.

**Waste from residues / unused products**
Not available

**Contaminated packaging**
Not available

14. Transport Information

**U.S. Department of Transportation (DOT)**
Not regulated as dangerous goods.

**Transportation of Dangerous Goods (TDG - Canada)**
Not regulated as dangerous goods.

15. Regulatory Information

**Canadian federal regulations**
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.

- **Sodium bisulfate**: 7681-38-1, 1%
- **Sodium chlorite**: 7758-19-2, 1%

<table>
<thead>
<tr>
<th>WHMIS status</th>
<th>Class D - Division 2B</th>
</tr>
</thead>
</table>

**Occupational Safety and Health Administration (OSHA)**
29 CFR 1910.1200 hazardous chemical: Yes

**US Federal regulations**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

- **EPA Registration No.**: 70060-25-75372

**CERCLA (Superfund) reportable quantity**
Sodium dodecylbenzene sulfonate: 1000.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**
- **Hazard categories**
  - Immediate Hazard: Yes
  - Delayed Hazard: No
  - Fire Hazard: No
  - Pressure Hazard: No
  - Reactivity Hazard: Yes
- **Section 302 extremely hazardous substance**: No
- **Section 311 hazardous chemical**: Yes

**Clean Air Act (CAA)**
Not available

**Clean Water Act (CWA)**
Hazardous substance
State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List
Sodium chlorite 7758-19-2 Present
Sodium dichloroisocyanurate 51580-86-0 Present
dihydrate

U.S. - New Jersey - Right to Know Hazardous Substance List
Sodium chlorite 7758-19-2 sn 1689

U.S. - Pennsylvania - RTK (Right to Know) List
Sodium chlorite 7758-19-2 Present
Sodium dichloroisocyanurate 51580-86-0 Present
dihydrate

U.S. - Rhode Island - Hazardous Substance List
Sodium chlorite 7758-19-2 Flammable
Sodium dichloroisocyanurate 51580-86-0 Flammable
dihydrate

Inventory name

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

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16. Other Information

**LEGEND**

<table>
<thead>
<tr>
<th>HMIS/NFPA</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Disclaimer**

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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**Effective date**

15-Jan-2011

**Expiry date**

15-Jan-2014

**Prepared by**

Dell Tech Laboratories Ltd. (519) 858-5021

**Other information**

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.