



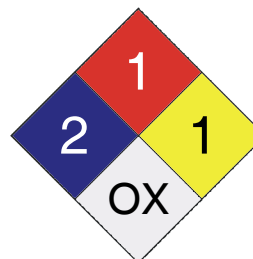
MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name VistaTab™ Antimicrobial Tablets by Hu-Friedy
CAS # Mixture
Product use EPA registered for the cleaning of microbial contaminants in dental unit waterlines
Manufacturer Hu-Friedy Mfg. Co., Inc.
 3232 N. Rockwell
 Chicago, IL 60618-5982 US
 Phone: 773.975.8100
 Fax: 773.868.3599
 Emergency Phone: 773.975.8100

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 2
Flammability	1
Physical Hazard	1
Personal Protection	X



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.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Sodium bisulfate	7681-38-1	15 - 40
Sodium chlorite	7758-19-2	1 - 5
Sodium dichloroisocyanurate dihydrate	51580-86-0	0.5 - 1.5

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.
Notes to physician	Symptoms may be delayed.
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.
Unsuitable extinguishing media	Water spray. Fog.
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.
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.
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

Exposure limits

Ingredient(s)	Exposure Limits
Sodium bisulfate	ACGIH-TLV Not established OSHA-PEL Not established
Sodium chlorite	ACGIH-TLV Not established OSHA-PEL Not established
Sodium dichloroisocyanurate dihydrate	ACGIH-TLV Not established OSHA-PEL Not established

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 & Chemical Properties

Appearance	Tablet
Color	Blue
Form	Powder
Odor	Slight
Odor threshold	Not available
Physical state	Solid
pH	6 - 7
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Relative density	Not available
Octanol/water coefficient	Not available
Solubility (H ₂ O)	Soluble
Auto-ignition temperature	Not available
VOC (Weight %)	Not available
Viscosity	Not applicable

Bulk density	1.5 g/cm ³
Percent volatile	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Heat. Exposure to light. Do not mix with other chemicals. Upon exposure to water or water vapour, chlorine dioxide gas is released.
Incompatible materials	Acids. Oxidizers. Reducing agents. Combustible materials. Caustics.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects	Acute LD50: >3129 mg/kg, Rat, Oral Acute LD50: >5000 mg/kg, Rat, Dermal
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Component analysis - LC50

Ingredient(s)	LC50
Sodium bisulfate	Not available
Sodium chlorite	0.29 mg/l/4h rat
Sodium dichloroisocyanurate dihydrate	> 1637.5 Mg/m ³ /4H rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Sodium bisulfate	2490 mg/kg rat
Sodium chlorite	165 mg/kg rat; 300 mg/kg guinea pig; 350 mg/kg mouse
Sodium dichloroisocyanurate dihydrate	620 mg/kg rat

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	See below.

IARC - Group 3 (Not Classifiable)

Sodium chlorite	7758-19-2	Monograph 52 [1991]
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Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.
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Ecotoxicity - Freshwater Fish Species Data

Sodium chlorite	7758-19-2	96 Hr LC50 Brachydanio rerio: 100-500 mg/L [static]
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Ecotoxicity - Water Flea 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

Environmental effects	Not available
Aquatic toxicity	Not available
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Partition coefficient	Not available

Mobility in environmental media	Not available
Chemical fate information	Not available
Other adverse effects	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Dispose in accordance with all applicable regulations.
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.

Canada - WHMIS - Ingredient Disclosure List

Sodium bisulfate	7681-38-1	1 %
Sodium chlorite	7758-19-2	1 %

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

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

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) Not available

Safe Drinking Water Act (SDWA) Not available

Drug Enforcement Agency (DEA) Not available

Food and Drug Administration (FDA) Not available

WHMIS classification Not for sale in Canada

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 dihydrate	51580-86-0	Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Sodium bisulfate	7681-38-1	sn 1704
Sodium chlorite	7758-19-2	sn 1689

U.S. - Pennsylvania - RTK (Right to Know) List

Sodium chlorite	7758-19-2	Present
Sodium dichloroisocyanurate dihydrate	51580-86-0	Present

U.S. - Rhode Island - Hazardous Substance List

Sodium chlorite	7758-19-2	Flammable
Sodium dichloroisocyanurate dihydrate	51580-86-0	Flammable

Inventory name

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

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

16. Other Information

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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Prepared by

Dell Tech Laboratories Ltd. (519) 858-5021