

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier

Vista Tab Dental Waterline Cleaner Tablets

Other means of identification

Not available

Recommended use

For the cleaning and control of microbial contaminants in Dental Unit Water Lines.

Recommended restrictions

None known.

Manufacturer for or

Distributed by Hu-Friedy Mfg. Co., LLC

3232 N. Rockwell St.

Chicago, IL 60618-5982 US Phone: 773.975.6100

Fax: 773.868.3599

Emergency Phone: 1-800-535-5053 Outside US: 001-352-323-3500

2. Hazards Identification

Physical hazards

Not classified.

Health hazards

Serious eye damage/eye irritation

Category 1

Environmental hazards

Hazardous to the aquatic environment, acute

Category 1

hazard

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Causes serious eye damage. Very toxic to aquatic life. Harmful to aquatic life with long lasting

effects.

Precautionary statement

Prevention

Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves. Wear

eye/face protection.

Response

Collect spillage. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately

call a poison center/doctor.

Storage

Store away from incompatible materials.

Disposal

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

56.25% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 56.25% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

3. Composition/Information on Ingredients

Mixture

hemical name	Common name and synonyms	CAS number	% 38.5	
Magnesium chloride		7786-30-3		
Sodium bisulphate		7681-38-1	30	
Sodium bicarbonate		144-55-8	25	
Sodium chlorite		7758-19-2	4	

containment and cleaning up

Environmental precautions

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Composition comments Not applicable to DIN products. Refer to product label for active ingredient content.				
4. First Aid Measures				
Inhalation	Keep patient clam, remove to fresh air. If breathing difficulties develop, aid in breathing and seek medical attention.			
Skin contact	If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Obtain medical attention immediately.			
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelided open to facilitate rinsing. Obtain medical attention immediately.			
Ingestion	If person is conscious and can swallow, give two glasses of water. If vomiting occurs, keep lower than hips to prevent aspiration. Immediate medical attention required.			
Most important symptoms/effects, acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.			
Indication of immediate medical attention and special treatment needed	Treat patient symptomatically.			
General information	Remove contaminated clothing immediately and wash before reuse. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Eye and skin irritant.			
	5. Fire Fighting Measures			
Suitable extinguishing media	Flood with water. Water spray.			
Unsuitable extinguishing media	Do not use carbon dioxide or organic compounds.			
Specific hazards arising from the chemical	Upon exposure to water or water vapour, chlorine dioxide gas is released. May cause fire or explosion; strong oxidizer. Chlorine dioxide will dissolve harmlessly in flooding amounts of water,			
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.			
Fire-fighting equipment/instructions	In the event of fire, cool tanks with water spray. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.			
Specific methods	Cool containers exposed to flames with water until well after the fire is out.			
General fire hazards	May intensify fire; oxidizer.			
Hazardous combustion products	May include and are not limited to: Decomposition releases oxygen which may intensify fire. Hydrogen chloride. Oxides of carbon.			
Explosion data				
Sensitivity to mechanical impact	Not available			
Sensitivity to static discharge	Not available.			
	6. Accidental Release Measures			
Personal precautions, protective equipment and	Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-upon personal protection, see section 8 of the SDS.			
emergency procedures Methods and materials for	Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing			

water may be corrosive and/or toxic and cause pollution. Avoid release to the environment. 7. Handling and Storage

Precautions for safe handling Avoid direct contact with water. Take precautionary measures against static discharge. Do not get

Avoid dust formation. For waste disposal, see section 13 of the SDS.

during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal.

Do not discharge into lakes, streams, ponds or public waters. Runoff from fire control or dilution

Observe good industrial hygierie practices.

Conditions for safe storage, including any incompatibilities

Store away from incompatible materials (see Section 10 of the SDS). Store away from heat, flames, sparks, and all other sources of ignition. Store in tightly closed original container in a dry and cool place. Suitable materials for containers: High density polyethylene (HDPE) or Low density polyethylene (LDPE).

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8. Exposure Controls/Personal Protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values Exposure guidelines

No biological exposure limits noted for the ingredient(s). This material does not have established exposure limits.

Appropriate engineering

Ensure adequate ventilation. Attempts should be made to eliminate all contact with skin and eyes, controls

and to limit inhalation exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Chemical resistant gloves.

Other Wear suitable protective clothing. As required by employer code.

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

Thermal hazards Not available.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink

and animal feeding stuffs. Avoid contact with the skin and the eyes.

9. Physical and Chemical Properties

Tablet **Appearance** Solid. Physical state Solid. Form Color Blue

Odor Slight chlorine. Not available. Odor threshold

рΗ 6 - 7

Not available. Melting point/freezing point Not available

Initial boiling point and boiling range

Not available. Pour point Not available Specific gravity Partition coefficient Not available.

(n-octanol/water)

Flash point Not available. Not available. Evaporation rate Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower Not available

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure Not available. Not available Vanor density

Solubility(ies)

Soluble

Auto-ignition temperature

Not available

Decomposition temperature

356 °F (180 °C) Not available.

Viscosity

Other information

Bulk density

1.5 g/cm3

10. Stability and Reactivity

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

Does not form flammable gases in the presence of water per the Manual of Tests and Criteria,

Test N.5.

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Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Contact with incompatible materials. Avoid heat, sparks, open flames and other ignition sources.

Avoid dust generation. Avoid direct sunlight. Moisture.

Incompatible materials

Hazardous decomposition

products

Water, Strong acids, Strong oxidizers, Reducing agents, Combustible materials, Caustics, May include and are not limited to: Chlorine oxides Chlorine. Sulfur oxide. Hydrogen chloride.

Oxides of carbon. Oxygen.

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. May be harmful if swallowed.

Inhalation

May cause irritation to the respiratory system.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Causes serious eye damage.

Symptoms related to the

physical, chemical and

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Permanent eye damage including blindness could result.

toxicological characteristics

Information on toxicological effects

Acute toxicity

Product

Species

Test Results

Vista Tab Dental Waterline Cleaner Tablets (CAS Mixture)

Acute

Dermal

LD50

Rat

> 5000 mg/kg

Oral

LD50

Rat

2000 - 5000 mg/kg

Test Results Components Species

Magnesium chloride (CAS 7786-30-3)

Acute

Dermal

LD50 Not available

Inhalation

LC50

Not available

Oral

LD50

2800 mg/kg Rat

Sodium bicarbonate (CAS 144-55-8)

LD50 Not available Inhalation LC50 Rat > 4.7 mg/l Oral LD50 Mouse 3360 mg/kg Rat 4220 mg/kg Sodium bisulphate (CAS 7681-38-1) **Acute** Dermal LD50 Not available Inhalation LC50 Not available Oral LD50 Rat 2490 mg/kg #18800 Page: 4 of 9 issue date 25-March-2015

Components **Species Test Results** Sodium chloride (CAS 7647-14-5) Acute Dermal LD50 Rabbit 10000.1 mg/kg Inhalation LC50 Rat > 21000 mg/m3 Oral LD50 Mouse 4000 mg/kg Rat 3000 mg/kg Sodium chlorite (CAS 7758-19-2) **Acute** Dermal LD50 Rabbit 134 mg/kg Inhalation LC50 Rat 0.3 mg/l, 4 Hours Oral LD50 Guinea pig 300 mg/kg Mouse 350 mg/kg Rat 165 mg/kg Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0) Acute Dermai LD50 Rabbit > 3160 mg/kg

Rat

> 2000 mg/kg 11000 mg/kg

> 1637.5 mg/m3/4H > 1481 mg/m3, 4 hours > 847.5 mg/m3, 4 hours

Oral

Inhalation LC50

inzo mying

620 mg/kg

Skin corrosion/irritation

Non-irritating based on test data.

Exposure minutes

Not available.

Erythema value

Not available.

Oedema value Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value

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Not available.

Iris lesion value

Not available.

Conjunctival reddening

value

Not available.

Conjunctival oedema value

Not available.

Respiratory or skin sensitization

Respiratory sensitization

Not classified.

Skin sensitization

Not a skin sensitizer based on test data.

Germ cell mutagenicity

Recover days

This product is not expected to cause mutagenic effects.

Non-hazardous by WHMIS/OSHA criteria.

Mutagenicity

This product is not expected to cause mutagenic effects.

Non-hazardous by WHMIS/OSHA criteria.

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Carcinogenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Non-hazardous by WHMIS/OSHA criteria.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium chlorite (CAS 7758-19-2)

Volume 52 - 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not classified.

Chronic effects

Not classified. Non-hazardous by WHMIS/OSHA criteria.

Further information

Not available.

Name of Toxicologically

Synergistic Products

Not available.

12. Ecological Information

Ecotoxicity

This product has not been tested. The hazards have been derived from the properties of the individual components. See below

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Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. Accumulation in aquatic

organisms is expected.

Product

Species

Test Results

Vista Tab Dental Waterline Cleaner Tablets (CAS Mixture)

Crustacea

LC50

Daphnia magna

0.1 - 1 mg/l

Fish

LC50

Fish

> 100 mg/l, (Brachydanio rerio)

Components
Magnesium chloride (CAS 7786-30-3)

Species

Test Results

	Crustacea	ECOU	Dapnnia	1400 mg/L, 46 mours			
	Aquatic						
	Crustacea	EC50	Calanoid copepod (Eudiaptomus padanus padanus)	95 - 342 mg/l, 48 hours			
	Fish	LC50	Fathead minnow (Pimephales promelas)	1580 - 2740 mg/l, 96 hours			
Sodi	Sodium bicarbonate (CAS 144-55-8)						
	Crustacea	EC50	Daphnia	2350 mg/L, 48 Hours			
	Aquatic						
	Fish	LC50	Western mosquitofish (Gambusia affinis)	7550 mg/l, 96 hours			
Sodi	Sodium bisulphate (CAS 7681-38-1)						
	Crustacea	EC50	Daphnia	190 mg/L, 48 Hours			
Sodi	Sodium chloride (CAS 7647-14-5)						
	Crustacea	EC50	Daphnia	1000 mg/L, 48 Hours			
	Aquatic						
	Crustacea	EC50	Water flea (Daphnia magna)	340.7 - 469.2 mg/l, 48 hours			
	Fish	LC50	Fathead minnow (Pimephales promelas)	6020 - 7070 mg/l, 96 hours			
Sodi	Sodium chlorite (CAS 7758-19-2)						
	Crustacea	EC50	Daphnia	0.026 mg/L, 48 Hours			
Sodi	Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)						
	Aquatic						
	Crustacea	EC50	Water flea (Daphnia magna)	0.15 mg/l, 48 hours			
	Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.29 mg/l, 96 hours			
Persiste	nce and degradability	No data is available on the degradability of this product					
Bioaccui	mulative potential	No data availat	ole.				
Mobility	in soil	Not expected.	This product has not been tested.				
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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	Dispose of contents/container in accordance with local/regional/national/international regulations. Wastes should be tested using appropriate TCLP analysis to determine applicable waste numbers. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not allow this material to drain into sewers/water supplies.			
Local disposal regulations	Dispose in accordance with all applicable regulations.			
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
Waste from residues / unused products	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).			

14. Transport Information

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

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number

emptied.

Not available.

Proper shipping name

Environmentally hazardous substances, solid, n.o.s. (Sodium chlorite)

Hazard class Packing group

Contaminated packaging

Mobility in general

9 Ш Basic shipping requirements:

UN number UN3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sodium chlorite)

Hazard class 9
Packing group III
Special provisions 16

IATA/ICAO (Air)

Basic shipping requirements:

UN number UN3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s. (Sodium chlorite)

Hazard class 9
Packing group III

IMDG (Marine Transport)

Basic shipping requirements:

UN number UN3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sodium chlorite)

Hazard class 9
Packing group III

DOT; IATA; IMDG; TDG



15. Regulatory Information

Canadian federal regulations

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

NOT approved for use in Canada without proper registration. This product requires DIN registration prior to sale in Canada.

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Canada Priority Substances List (Second List): Listed substance

Magnesium chloride (CAS 7786-30-3) Listed. Sodium chloride (CAS 7647-14-5) Listed.

Canada WHMIS Ingredient Disclosure: Threshold limits

Sodium bisulphate (CAS 7681-38-1) 1 %
Sodium chlorite (CAS 7758-19-2) 1 %
Sodium dichloroisocyanurate dihydrate (CAS 1 %
51580-86-0)

WHMIS classification Exempt – DIN Registration Required

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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. PRECAUTIONARY STATEMENTS:

Hazard to humans and domestic animals.

thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing before reuse.

EPA Reg. # 70060-25-75372

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Water Act (CWA)

Hazardous substance

Section 112(r) (40 CFR

68.130) Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

US - New Jersey RTK - Substances: Listed substance

Sodium chlorite (CAS 7758-19-2)

Listed.

Sodium dichloroisocyanurate dihydrate (CAS

51580-86-0)

Listed.

US - Texas Effects Screening Levels: Listed substance

Magnesium chloride (CAS 7786-30-3)

Listed.

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Sodium bicarbonate (CAS 144-55-8)

Sodium bisulphate (CAS 7681-38-1)

Sodium chloride (CAS 7647-14-5)

Sodium chlorite (CAS 7758-19-2)

Listed.

US. Massachusetts RTK - Substance List

Sodium chlorite (CAS 7758-19-2)

Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)

Listed.

US. Pennsylvania RTK - Hazardous Substances

Sodium chlorite (CAS 7758-19-2)

Sodium dichloroisocyanurate dihydrate (CAS Listed. 51580-86-0)

US. Rhode Island RTK

Not regulated

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

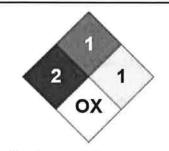
Yes

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

16. Other Information







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.

Issue date

25-March-2015 15-March-2015

Effective date Expiry date

15-March-2018

Further information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.