

SAFETY DATA SHEET

1. Product and Company Identification

Vista Tab Dental Waterline Cleaner Tablets Product identifier

Other means of identification Not available

Recommended use

Recommended restrictions

Manufacturer for or

Distributed by

For the cleaning and control of microbial contaminants in Dental Unit Water Lines. None known.

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 Not classified.

OSHA defined hazards

Label elements



Signal word

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

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 Chemical name CAS number % Common name and synonyms Magnesium chloride 7786-30-3 38.5 Sodium bisulphate 7681-38-1 30 Sodium bicarbonate 144-55-8 25 Sodium chlorite 7758-19-2 4 Sodium chloride 7647-14-5 1 Sodium dichloroisocyanurate 51580-86-0 1 dihydrate

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|-----|----------|----------|
| COM | DOSITION | 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 eyelids

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 head

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

Special protective equipment

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

explosion; strong oxidizer. Chlorine dioxide will dissolve harmlessly in flooding amounts of water.

and precautions for firefighters

Fire-fighting

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

equipment/instructions

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 emergency procedures

Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. For waste disposal, see section 13 of the SDS.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters. Runoff from fire control or dilution 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 this material in contact with eyes. Provide adequate ventilation. Avoid agitation to minimize dust production. Avoid release to the environment. Wear appropriate personal protective equipment. Observe good industrial hygiene 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).

#18800 Page: 2 of 9 Issue date 25-March-2015 8. Exposure Controls/Personal Protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s). **Exposure guidelines** This material does not have established exposure limits.

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

and to limit inhalation exposure. controls

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Chemical resistant gloves.

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

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

Not available. Thermal hazards

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

Slight chlorine. Odor Odor threshold Not available.

pН 6 - 7

Not available. Melting point/freezing point Initial boiling point and boiling Not available

range

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

(n-octanol/water)

Flash point Not available. **Evaporation rate** Not available. 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. Vapor density Relative density Not available. Soluble Solubility(ies) **Auto-ignition temperature** Not available

356 °F (180 °C) **Decomposition temperature Viscosity** Not available.

Other information

1.5 g/cm3 **Bulk density**

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.

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 Water, Strong acids, Strong oxidizers, Reducing agents, Combustible materials, Caustics,

May include and are not limited to: Chlorine oxides Chlorine. Sulfur oxide. Hydrogen chloride.

products

Oxides of carbon. Oxygen.

11. Toxicological Information

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

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

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

physical, chemical and toxicological characteristics Permanent eye damage including blindness could result.

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

Components **Species Test Results**

Magnesium chloride (CAS 7786-30-3)

Acute Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat 2800 mg/kg

Sodium bicarbonate (CAS 144-55-8)

Acute

Dermal

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

2490 mg/kg LD50 Rat

#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 Rabbit LD50 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 Dermal LD50 Rabbit > 3160 mg/kg > 2000 mg/kg 11000 mg/kg Inhalation LC50 Rat > 1637.5 mg/m3/4H > 1481 mg/m3, 4 hours > 847.5 mg/m3, 4 hours Oral LD50 Rat 1670 mg/kg 1420 mg/kg 620 mg/kg Non-irritating based on test data. Skin corrosion/irritation Not available. **Exposure minutes** Not available. Erythema value Oedema value Not available. Serious eye damage/eye Causes serious eye damage. irritation Corneal opacity value Not available. Iris lesion value Not available. Not available. Conjunctival reddening value Not available. Conjunctival oedema value Recover days Not available. Respiratory or skin sensitization

Mutagenicity

This product is not expected to cause mutagenic effects.

Non-hazardous by WHMIS/OSHA criteria.

Not a skin sensitizer based on test data.

Non-hazardous by WHMIS/OSHA criteria.

Not classified.

Respiratory sensitization

Skin sensitization

Germ cell mutagenicity

This product is not expected to cause mutagenic effects.

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

Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity Non-hazardous by WHMIS/OSHA criteria.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified

repeated exposure

Aspiration hazard Not classified.

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

Further information

Name of Toxicologically

Synergistic Products

Not available. 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

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 Species Test Results

Magnesium chloride (CAS 7786-30-3)

 Algae
 IC50
 Algae
 2200 mg/L, 72 Hours

 Crustacea
 EC50
 Daphnia
 1400 mg/L, 48 Hours

Aquatic

Crustacea EC50 Calanoid copepod (Eudiaptomus 95 - 342 mg/l, 48 hours

padanus padanus)

Fish LC50 Fathead minnow (Pimephales promelas) 1580 - 2740 mg/l, 96 hours

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

Sodium bisulphate (CAS 7681-38-1)

Crustacea EC50 Daphnia 190 mg/L, 48 Hours

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

Sodium chlorite (CAS 7758-19-2)

Crustacea EC50 Daphnia 0.026 mg/L, 48 Hours

Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)

Aquatic

Persistence and degradability

Crustacea EC50 Water flea (Daphnia magna) 0.15 mg/l, 48 hours
Fish LC50 Rainbow trout, donaldson trout 0.29 mg/l, 96 hours

(Oncorhynchus mykiss)

Bioaccumulative potential No data available.

Mobility in soil Not expected. This product has not been tested.

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No data is available on the degradability of this product.

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 instructionsDispose 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).

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

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN3077

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

Hazard class 9
Packing group III

Special provisions 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33

Transportation of Dangerous Goods (TDG - Canada)

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

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.

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 % 1 % Sodium dichloroisocyanurate dihydrate (CAS

51580-86-0)

WHMIS classification Exempt - DIN Registration Required

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

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.

Danger Corrosive.

Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. Wash 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)

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)

Immediate Hazard - Yes **Hazard categories**

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

SARA 302 Extremely

hazardous substance

No

SARA 311/312 Hazardous

chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Water Act (CWA)

Hazardous substance

Section 112(r) (40 CFR

Safe Drinking Water Act

68.130)

Not regulated.

(SDWA)

Food and Drug

US state regulations

Not regulated.

Administration (FDA)

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

US - New Jersey RTK - Substances: Listed substance

Sodium chlorite (CAS 7758-19-2) Listed. Sodium dichloroisocyanurate dihydrate (CAS Listed. 51580-86-0)

US - Texas Effects Screening Levels: Listed substance

Magnesium chloride (CAS 7786-30-3) Listed. 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.

Listed.

US. Massachusetts RTK - Substance List

Sodium chlorite (CAS 7758-19-2) Listed. Sodium dichloroisocyanurate dihydrate (CAS Listed. 51580-86-0)

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.

Inventory status

| 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

| LEGEND | |
|----------|---|
| LEGEND | |
| | |
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |





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 date25-March-2015Effective date15-March-2015Expiry date15-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.