



Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/04/2019

Reviewed on 10/04/2019

1 Identification

- **Product Identifier**
- **Trade Name:** Dental City Ultrasonic Tablets
- **Product Number:** 75-283
SDS Manufacturer Number: D110
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Ultra sonic cleaner for dental instruments.
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Dental City
3205 Yeager Dr..
Green Bay, WI 54311
USA
General Phone Number: 1-800-353-9595
- **Emergency telephone number:**
• 920-965-3961

2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H335 May cause respiratory irritation.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Danger
- **Hazard-determining components of labeling:**
Subtilisin
Sodium Benzoate
- **Hazard statements:**
H315 Causes skin irritation.
H318 Causes serious eye damage.

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H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves / eye protection / face protection.
 P284 [In case of inadequate ventilation] wear respiratory protection.
 P302+P352 If on skin: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a poison center/doctor.
 P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 P312 Call a poison center/doctor if you feel unwell.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

0 % of the mixture consists of component(s) of unknown toxicity.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme**NFPA ratings (scale 0 - 4)**

Health = 3
 Fire = 0
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *3
 Fire = 0
 Physical Hazard = 0

Hazard(s) not otherwise classified (HNOC): None known**3 Composition/Information on Ingredients****Chemical characterization: Mixtures****Description:** Mixture of substances listed below with non-hazardous additions.**Dangerous Components:**

CAS: 497-19-8	Sodium carbonate ⚠ Eye Irrit. 2A, H319	15-35%
CAS: 9014-01-1 RTECS: CO 9550000	Subtilisin ⚠ Resp. Sens. 1, H334; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	15-35%

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CAS: 77-92-9	Citric Acid	15-35%
RTECS: GE 7350000	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
CAS: 532-32-1	Sodium Benzoate	2-12%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
CAS: 25322-68-3	Polyethylene Glycol	2-12%

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures**Description of first aid measures****General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in the side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor. If easy to do so, remove contact lenses if worn. If eye irritation occurs, consult a doctor.

After swallowing:

Do not induce vomiting without medical advice. If swallowed and symptoms occur, consult a doctor.

Information for doctor

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures**Extinguishing media****Suitable extinguishing agents:**

CO₂, sand, dry chemical, water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: No further relevant information.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters**Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures**Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

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Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals**PAC-1:**

144-55-8	Sodium Hydrogencarbonate	13 mg/m ³
497-19-8	Sodium carbonate	7.6 mg/m ³
532-32-1	Sodium Benzoate	61 mg/m ³
25322-68-3	Polyethylene Glycol	30 mg/m ³

PAC-2:

144-55-8	Sodium Hydrogencarbonate	140 mg/m ³
497-19-8	Sodium carbonate	83 mg/m ³
532-32-1	Sodium Benzoate	680 mg/m ³
25322-68-3	Polyethylene Glycol	1,300 mg/m ³

PAC-3:

144-55-8	Sodium Hydrogencarbonate	840 mg/m ³
497-19-8	Sodium carbonate	500 mg/m ³
532-32-1	Sodium Benzoate	810 mg/m ³
25322-68-3	Polyethylene Glycol	7,700 mg/m ³

7 Handling and Storage**Handling****Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Information about protection against explosions and fires: No special measures required.**Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s):** No further relevant information available.**8 Exposure Controls/Personal Protection****Additional information about design of technical systems:** No further data; see section 7.**Control parameters:****Components with occupational exposure limits:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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9014-01-1 Subtilisin	
REL	Short-term value: 0.00006* mg/m ³ *60-min
TLV	Ceiling limit value: 0.00006 mg/m ³ as 100% crystalline active pure enzyme
25322-68-3 Polyethylene Glycol	
WEEL	Long-term value: 10 mg/m ³ (H); MW>200

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

· **Personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves

· **Material of gloves:**

Chemical resistant

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:**



Protective work clothing

· **Limitation and supervision of exposure into the environment:** None

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Tablets

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· Color:	White and brown speckled
· Odor:	Mint
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
· Flash point:	None
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Not applicable
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density @ 20 °C (68 °F):	1.7074 g/cm ³ (14.2483 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
· Evaporation rate:	Not determined.
· Solubility in / Miscibility with:	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC content:	0.00 %
· Other information:	No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:**
Heat, flame and ignition sources.
High temperatures.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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Trade Name: Dental City Ultrasonic Tablets**11 Toxicological Information**· **Information on toxicological effects:**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****144-55-8 Sodium Hydrogencarbonate**

Oral LD50 4,220 mg/kg (Rat)

497-19-8 Sodium carbonate

Oral LD50 4,090 mg/kg (Rat)

Inhalative LC50/96 hours 300 mg/l (Fathead Minnow)

9014-01-1 Subtilisin

Oral LD50 3,700 mg/kg (Rat)

77-92-9 Citric Acid

Oral LD50 5,040 mg/kg (Mouse)

5,400 mg/kg (Rat)

Dermal LD50 >2,000 mg/kg (Rat)

LC50/48 hrs 440 mg/l (Daphnia)

532-32-1 Sodium Benzoate

Oral LD50 1,600 mg/kg (Mouse)

4,070 mg/kg (Rat)

2,000 mg/kg (Rabbit)

25322-68-3 Polyethylene Glycol

Oral LD50 >5,000 mg/kg (Rat)

Dermal LD50 >5,000 mg/kg (Rabbit)

Inhalative LC50/96 hours 10,000 mg/l (Fish - Poecilia reticulata, 96h)

· **Primary irritant effect:**· **On the skin:**

Strong caustic effect on skin and mucous membranes.

Irritant to skin and mucous membranes.

· **On the eye:**

Strong irritant with the danger of severe eye injury.

Corrosive effect.

Causes serious eye irritation.

· **Sensitization:** Sensitization possible through inhalation.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

· **Carcinogenic categories:**· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

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Trade Name: Dental City Ultrasonic Tablets**· OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

12 Ecological Information**· Toxicity:****· Aquatic toxicity:****497-19-8 Sodium carbonate**

EC50 227 mg/l (Daphnia)

77-92-9 Citric Acid

EC50 1,534 mg/l (Daphnia)

· Persistence and degradability: No further relevant information available.**· Behavior in environmental systems:****· Bioaccumulative potential:** No further relevant information available.**· Mobility in soil:** No further relevant information available.**· Additional ecological information:****· General notes:**

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

· Results of PBT and vPvB assessment:**· PBT:** Not applicable.**· vPvB:** Not applicable.**· Other adverse effects:** No further relevant information available.**13 Disposal Considerations****· Waste treatment methods****· Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

· Uncleaned packaging**· Recommendation:** Disposal must be made according to official regulations.**14 Transport Information****· UN-Number:****· DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

· UN proper shipping name:**· DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

· Transport hazard class(es):**· DOT, ADR/ADN, ADN, IMDG, IATA****· Class:**

Non-Regulated Material

· Packing group:**· DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

· Environmental hazards:

Not applicable.

· Special precautions for user:

Not applicable.

· Transport in bulk according to Annex II of**MARPOL73/78 and the IBC Code:**

Not applicable.

· UN "Model Regulation":

Non-Regulated Material

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Trade Name: Dental City Ultrasonic Tablets**15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Hazardous Air Pollutants**

None of the ingredients are listed.

- **California Proposition 65:**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

- **New Jersey Right-to-Know List:**

25322-68-3 Polyethylene Glycol

- **New Jersey Special Hazardous Substance List:**

None of the ingredients are listed.

- **Pennsylvania Right-to-Know List:**

25322-68-3 Polyethylene Glycol

- **Pennsylvania Special Hazardous Substance List:**

None of the ingredients are listed.

- **Carcinogenic categories:**

- **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

- **TLV (Threshold Limit Value established by ACGIH):**

None of the ingredients are listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



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Trade Name: Dental City Ultrasonic Tablets

- **Signal word:** Danger
- **Hazard-determining components of labeling:**
 - Subtilisin
 - Sodium Benzoate
- **Hazard statements:**
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 - H335 May cause respiratory irritation.
- **Precautionary statements:**
 - P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 - P264 Wash thoroughly after handling.
 - P271 Use only outdoors or in a well-ventilated area.
 - P280 Wear protective gloves / eye protection / face protection.
 - P284 [In case of inadequate ventilation] wear respiratory protection.
 - P302+P352 If on skin: Wash with plenty of water.
 - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
 - P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P310 Immediately call a poison center/doctor.
 - P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 - P312 Call a poison center/doctor if you feel unwell.
 - P362+P364 Take off contaminated clothing and wash it before reuse.
 - P332+P313 If skin irritation occurs: Get medical advice/attention.
 - P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
 - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

None of the ingredients are listed.

- | |
|---|
| · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. |
|---|

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of last revision/ revision number:** 10/04/2019 / -

- **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)

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Trade Name: Dental City Ultrasonic Tablets

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Resp. Sens. 1: Respiratory sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

• *** Data compared to the previous version altered.**

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