

# Safety Data Sheet

## Brite Shield™ Enzymatic Cleaner

---

### 1. Identification

**Product Name:** Brite Shield™ Enzymatic Cleaner

Premier® Dental Products Company

1710 Romano Drive

Plymouth Meeting, PA 19462

Phone: 610-239-6000 Fax: 610-239-6171

Emergency Phone: 610-239-6000

**Recommended Use:** Instrument Cleaner and Protectant

**Restrictions for Use:** Not to be used on anodized aluminum instruments or bur blocks

### \*2. Hazard(s) Identification

**Classification of the substance or mixture**



Corrosion

Causes serious eye damage



Harmful if swallowed.

**Label elements**

**GHS label elements**

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

**Hazard pictograms**



**Signal word:** Danger

**Hazard-determining components of labeling:**

tetrasodium ethylenediaminetetraacetate

**Hazard statements:**

Harmful if swallowed.

Causes serious eye damage.

**Precautionary statements:**

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Rinse mouth.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Immediately call a POISON CENTER/doctor.

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

**Classification system:**

**NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 1

**HMIS-ratings (scale 0 - 4)**

HEALTH	2
FIRE	1
REACTIVITY	1

Health = 2

Fire = 1

Reactivity = 1

**\*3. Composition/Information on Ingredients****Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.

<b>Dangerous Components:</b>		
64-02-8	tetrasodium ethylenediaminetetraacetate	60-100%
	☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302	
	surfactants	1-5%
	☠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
497-19-8	sodium carbonate	1-5%
	☠ Eye Irrit. 2, H319	

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

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Remove contaminated clothing. Wash clothing before reuse. Wash with soap and water.

If irritation occurs consult a doctor.

**After eye contact:**

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Seek medical treatment.

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Give large amounts of water or milk. Immediately call a doctor.

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

This product contains sodium carbonate at low concentrations. While no adverse complications are expected, consider endoscopy in all suspected cases of poisoning. Perform blood analysis to determine if dehydration, acidosis, or other electrolyte imbalances occurred.

**Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

**\*5. Fire-Fighting Measures****Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**Special hazards arising from the substance or mixture:** No further relevant information available.**Advice for firefighters****Protective equipment:** Full protective clothing and self-contained breathing apparatus should be worn.**\*6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures:** Not required.**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

**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.

## \*7. Handling and Storage

**Precautions for safe handling:** No special precautions are necessary if used correctly.

**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:**

Keep container tightly closed.

Store in a well ventilated place.

Store in a cool, dry place.

Do not store in aluminum, carbon steel, copper, copper alloys, fiberglass, brass, zinc, nickel or galvanized containers.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Use plastics or stainless steel for suitable packaging.

**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:**

Federal guidelines suggest to treat the ingredient in this product as a nuisance dust, as no product specific guidelines have been issued for exposure.

Particulated Not Otherwise Regulated: OSHA (PEL?TWA): 15 mg/m<sup>3</sup> (total dust); 5 mg/mg<sup>3</sup> (resp fraction)

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

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from tobacco products.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

**Breathing equipment:** Not required.

**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

**Material of gloves:**

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:**

Have a safety shower and eyewash fountain readily available in the immediate work area

Tightly sealed goggles

**Body protection:** Protective work clothing

## \*9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

**Form:** Crystalline powder

**Color:** White to orange

<b>Odor:</b>	No significant odor
<b>Odor threshold:</b>	Not determined.
<b>pH-value @ 20 °C (68 °F):</b>	10
<b>Change in condition:</b>	
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	Not determined.
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not determined.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapor pressure:</b>	Not applicable.
<b>Density:</b>	Not determined.
<b>Relative density:</b>	Not determined.
<b>Vapour density:</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable
<b>Solubility in/Miscibility with Water:</b>	<10%
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Solids content:</b>	100.0 %
<b>Other information:</b>	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:**

Avoid strong oxidizing agents, aluminum, heat, moisture and other incompatible materials as stated above.

**Incompatible materials:**

Oxidizing agents, strong bases, copper, copper alloys and nickel Sodium carbonate reacts with fluorine, aluminum, phosphorous pentoxide, sulfuric acid, zinc lithium, moisture, calcium hydroxide and 2,4,6-trinitrotoluene and reacts violently with acid to form carbon dioxide.

**Hazardous decomposition products:**

Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, oxides of phosphorous, oxides of sulfur and sodium oxides.

#### \*11. Toxicological Information

**Information on toxicological effects**

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** Strong irritant with the danger of severe eye injury.

**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 is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12. Ecological Information****Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Additional ecological information:****General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

**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.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

**\*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, IMDG, IATA**

**Class**

Non-Regulated Material

**Packing group**

**DOT, ADR, IMDG, IATA**

Non-Regulated Material

**Environmental hazards:****Marine pollutant:**

No

**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":**





-

**\*15. Regulatory Information:**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Sara

<b>Section 355 (extremely hazardous substances):</b>	
None of the ingredients is listed.	
<b>Section 313 (Specific toxic chemical listings):</b>	
None of the ingredients is listed.	
<b>TSCA (Toxic Substances Control Act):</b>	
64-02-8	tetrasodium ethylenediaminetetraacetate
497-19-8	sodium carbonate
<b>Proposition 65</b>	
<b>Chemicals known to cause cancer:</b>	
None of the ingredients is listed.	
<b>Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	
<b>Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients is listed.	
<b>Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	
<b>Carcinogenic categories</b>	
<b>EPA (Environmental Protection Agency)</b>	
None of the ingredients is listed.	
<b>TLV (Threshold Limit Value established by ACGIH)</b>	
None of the ingredients is listed.	
<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
None of the ingredients is listed.	
<b>GHS label elements</b>	
The product is classified and labeled according to the Globally Harmonized System (GHS).	
<b>Hazard pictograms</b>	
	
<b>Signal word</b> Danger	
<b>Hazard-determining components of labeling:</b>	
tetrasodium ethylenediaminetetraacetate	
<b>Hazard statements:</b>	
Harmful if swallowed.	
Causes serious eye damage.	
<b>Precautionary statements:</b>	
Wear protective gloves/protective clothing/eye protection/face protection.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	
Continue rinsing.	
Rinse mouth.	
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	
Immediately call a POISON CENTER/doctor.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>National regulations:</b>	
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.	

State Right to Know		
64-02-8	tetrasodium ethylenediaminetetraacetate	60-100%
	 Eye Dam. 1, H318;  Acute Tox. 4, H302	
	surfactants	1-5%
	 Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
497-19-8	sodium carbonate	1-5%
	 Eye Irrit. 2, H319	
All ingredients are listed.		

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Premier's revision date:** 08/27/2014

**Revision Number:** 4

### Abbreviations and acronyms:

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**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)

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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

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

SDS created by MSDS Authoring Services

www.msdsauthoring.com

(877) 204-9106

Supplier date: 7-22-2014

---

This SDS is offered solely for your information, consideration and investigation. This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. Premier Dental Products Company provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of data contained herein. Premier Dental Products Company urges persons receiving this information to make their own determination as to the information suitability for their particular application.

---