

# Material Safety Data Sheet

## **Brite Shield™ Enzymatic Cleaner**

MSDS, Rev. 6

Last revised: 01-March -2012

Approved for Use: 09-March -2009

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### **1. Chemical product and company identification**

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

Premier® Dental Products Company  
1710 Romano Drive  
Plymouth Meeting, PA 19462  
PH: 610-239-6053 FAX 610-239-6171

### **2. Hazards Identification**

**Physical Hazards:** None known.

**Health Hazards (Acute and Chronic):**

**Eye Contact:** Causes irritation. Solutions are severe irritants to the eye. Contact of Sodium Carbonate may be corrosive to eyes and cause conjunctival edema and corneal destruction.

**Skin:** Prolonged contact may irritate skin and cause redness to occur. May be harmful if absorbed through the skin.

**Inhalation:** May irritate the upper respiratory tract and mucus membranes. May be harmful if inhaled.

**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.

**Signs and Symptoms of Exposure:**

**Eye Contact:** Burning, irritation, pain, and redness of eyes. Risk of serious injury from Sodium Carbonate increases if eyes are kept tightly closed and other symptoms may appear from absorption into the bloodstream via the eyes.

**Skin Contact:** Irritation and redness

**Inhalation:** Sneezing, coughing, irritation to nose/throat and possible lightheadedness

**Ingestion:** Burning or irritation to mouth and esophagus, stomach pain or discomfort

### **3. Composition / Information on Ingredients**

<b>CHEMICAL NAME</b>	<b>CAS #:</b>	<b>WT/WT %</b>	<b>EINECS #</b>	<b>R Phrases</b>
Sodium Edetate	64-02-8	60-100	200-573-9	R22, R41
Surfactant	NA	1-5	NE	NE
Sodium Carbonate	497-19-8	1-5	207-838-8	R36

#### 4. First Aid Measures

**Emergency and First Aid Procedures:**

**Skin contact:** Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

**Eye contact:** Flush with copious amounts of tap water for 15 minutes; seek medical attention.

**Ingestion:** If swallowed, do not induce vomiting. Give large quantities of water or milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Inhalation:** Remove to fresh air. If having difficulty breathing, contact emergency personnel immediately.

**Notes to Medical Doctor:**

This product contains sodium carbonate at a low concentration. 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.

#### 5. Fire-Fighting Measures

**Flash Point (Method Used):** N/A      **Explosive Limits:**    *LEL:* N/A      *UEL:* N/A

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Fire Fighting Procedures:**

Use self contained breathing apparatus and protective equipment.

**Fire/Explosion Hazards:**                      Not applicable

**Sensitivity to Impact:**                        None

**Sensitivity to Static Discharge:**            None

#### 6. Accidental Release Measures

**Personal Precautions:** Refer to Section 8

**Environmental Precautions:** None

**Clean-up Procedures:** Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Do not let this chemical enter the environment.

#### 7. Handling and Storage

**Handling Requirements:** Keep out of reach of children. Avoid dust formation and control ignition sources. Do not get in eyes, on skin, or on clothing.

**Storage Conditions:** Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Do not store in aluminum, carbon steel, copper, copper alloys, fiberglass, brass, zinc, or nickel or galvanized containers.

**Suitable Packaging:** Plastics, stainless steel

## 8. Exposure Controls / Personal Protection

### Exposure Guidelines:

Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure.

Particulates Not Otherwise Regulated:

OSHA (PEL/TWA): 15 mg/m<sup>3</sup> (total dust); 5 mg/m<sup>3</sup> (resp fraction)

**Engineering Controls:** Provide local exhaust ventilation.

**Respiratory Protection:** None required for expected product use.

**Hand/Skin Protection:** Protective gloves and body-covering clothing recommended.

**Eye Protection:** Safety glasses recommended. Have eye-wash facilities immediately available.

**General Hygiene Considerations:** Wash hands thoroughly after handling. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use.

## 9. Physical and Chemical Properties

**Boiling Point:** N/A (powder)

**Vapor Pressure (mmHg):** N/A

**Vapor Density (Air-1):** N/A

**Order Threshold:** N/A

**Coefficient of Water/Oil Distribution:** N/A

**Scooped Density:** N/A

**Appearance and Odor:** White to orange powder and granules, yellow in solution. No significant odor.

**Specific Gravity (H<sub>2</sub>O=1):** N/D

**Percent Volatile by Volume (%):** N/A

**Evaporation Rate (nBuOAc-1):** N/D

**Freezing Point:** N/A (powder)

**pH (1% solution):** 9.50 – 10.50

**Solubility in Water:** >10%

**Reserve Alkalinity:** N/D

## 10. Stability and Reactivity

**Stability:** This product is stable.

### Incompatibility (Materials to Avoid):

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 acids to form carbon dioxide.

### Hazardous Decomposition/By Products:

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

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Avoid strong oxidizing agents, aluminum, heat, moisture and other incompatibles.

**Other Recommendations:** Read and follow all directions for use.

## 11. Toxicological Information

### ACUTE EFFECTS

<b>Eye Effects:</b>	For Edetate: Rabbit (Std Draize): 100 mg/24H, moderate For Sodium Carbonate: rabbit: 50 mg severe
<b>Skin Effects:</b>	For Edetate: Rabbit (Std Draize): 500 mg/24H, moderate
<b>Dermal LD50:</b>	No data available for the product.
<b>Oral LD50:</b>	For Sodium Carbonate: rat=4090 mg/kg
<b>Inhalation LC50:</b>	For Sodium Carbonate: rat= 2300 mg/m <sup>3</sup> /2H
<b>Sensitization:</b>	No data available for the product.

### CHRONIC EFFECTS

<b>Carcinogenicity:</b>	None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.
<b>Mutagenicity:</b>	Sodium Carbonate has been investigated as a mutagen.
<b>Reproductive Effects:</b>	Sodium Carbonate has been investigated as a reproductive effector.
<b>Developmental Effects:</b>	No data available for the product.

## 12. Ecological Information

### Ecotoxicological Information:

For Edetate:	Freshwater Fish Data: 96 Hr LC50 bluegill sunfish: 490 mg/L (Static)
For Sodium Carbonate:	96 Hr LC50 Lepomis macrochirus: 300 mg/L [static] 48 Hr EC50 Daphnia magna: 265 mg/L

**Mobility:** No data available for the product.

**Persistence and Degradability:** No data available for the product.

**Bioaccumulative Potential:** No data available for the product.

**Other Adverse Effects:** No data available for the product.

## 13. Disposal Considerations:

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use, or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information:

### DOT GROUND TRANSPORT

<b>PROPER SHIPPING NAME:</b>	Not regulated.
<b>TECHNICAL NAME:</b>	NA
<b>HAZARD CLASS:</b>	NA
<b>UN/NA NUMBER:</b>	NA
<b>PACKING GROUP:</b>	NA
<b>MARINE POLLUTANT:</b>	No

**15. Regulatory Information:**  
**UNITED STATES**

**29CFR 1910.1200 (OSHA):** Hazardous

**SARA SECTION 302 (40 CFR 355, APPENDIX A):** Not listed

**SECTION 311/312 HAZARD CATEGORIES (40 CFR 370):** Immediate (Acute) Health Hazard

**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):** Not listed

**CERCLA REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):** Not listed.

**TSCA INVENTORY STATUS (40 CFR 710):** Listed

**CALIFORNIA PROPOSITION 65:** This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

**CANADA**

**WHMIS Hazard Classification/Division:** D2B, E

**Ingredient Disclosure List:** Listed

**Domestic Substance List:** Listed

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.

**EINECS INVENTORY STATUS:** Listed

**HAZARD AND RISK PHRASE DESCRIPTIONS:**

**Hazard Symbols:** Xn (Harmful), Xi (Irritant)

**Risk Phrases:** **R22** – Harmful if swallowed, **R36** - Irritating to eyes. **R41** –Risk of serious damage to eyes.

**Safety Phrases:** **S2** -Keep out of the reach of children. **S22**-Do not breathe dust. **S26** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice., **S39** - Wear eye/face protection., **S46** - If swallowed, seek medical advice immediately and show this container or label.

**16. Other Information**

**Other Information:**

<b>Hazard Rating:</b>	<b>Health:</b> 2	<b>4=EXTREME</b>
	<b>Flammability:</b> 1	<b>3=HIGH</b>
	<b>Reactivity:</b> 1	<b>2=MODERATE</b>
		<b>1=SLIGHT</b>

**REVISION SUMMARY:** This MSDS replace Rev 4 issued in 1/8/06. The format has been updated for compliance with various regulatory bodies. Data changes/additions are noted in the following Sections: 1-4, 7, 8, 10, 11-16.

This information is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, or the results to be obtained from use thereof. In no event will the manufacturer or distributor be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon this information. General properties described herein are to be regarded as guides and are not guaranteed for all samples.