

Material Safety Data Sheet

Brite Shield™ Enzymatic Cleaner

MSDS, Rev. 5

Last revised: 09-March -2009

Approved for Use: 09-March -2009

1. Chemical product and company identification

Product Name: Brite Shield™ Enzymatic Cleaner

Premier Dental Products Company
1710 Romano Drive
Plymouth Meeting, PA 19462
PH: 610-239-6000 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

CHEMICAL NAME	CAS #:	WT/WT %	EINECS #	R Phrases
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/m³ (total dust); 5 mg/m³ (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 (H₂O=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

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

CHRONIC EFFECTS

Carcinogenicity:	None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.
Mutagenicity:	Sodium Carbonate has been investigated as a mutagen.
Reproductive Effects:	Sodium Carbonate has been investigated as a reproductive effector.
Developmental Effects:	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

PROPER SHIPPING NAME:	Not regulated.
TECHNICAL NAME:	NA
HAZARD CLASS:	NA
UN/NA NUMBER:	NA
PACKING GROUP:	NA
MARINE POLLUTANT:	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:

Hazard Rating:	Health: 2	4=EXTREME
	Flammability: 1	3=HIGH
	Reactivity: 1	2=MODERATE
		1=SLIGHT

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.

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