

Material Safety Data Sheet

Pro Clean™ Cleaner

MSDS, Rev. 4

Last revised: 09-March-2009

Approved for Use: 09-March-2009

1. Chemical product and company identification

Product Name: Pro Clean™ 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: Corrosive mixture.

Health Hazards (Acute and Chronic):

Eye Contact: Corrosive. Highly irritating; may also be abrasive.

Skin: Corrosive. Causes irritation to skin.

Inhalation: May irritate the upper respiratory tract and mucus membranes. Sulfamic Acid is extremely destructive to tissues of the mucous membranes and upper respiratory tract.

Ingestion: Sulfamic Acid is corrosive. Calcium deficiency in blood may result in severe cases of ingestion of Citric Acid. Chronic or heavy acute ingestion may cause tooth enamel erosion.

Signs and Symptoms of Exposure:

Eye Contact: Can cause blurred vision, redness, pain, severe tissue burns and eye damage.

Skin Contact: Redness, pain and severe burn may occur.

Inhalation: Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. May cause pulmonary edema, a medical emergency. Pulmonary edema may be delayed up to 48 hours.

Ingestion: Swallowing Sulfamic Acid can cause severe burns of the mouth, throat, and stomach, leading to death and can cause sore throat, vomiting, diarrhea.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS #:	WT/WT %	EINECS #	R Phrases
Citric Acid	77-92-9	60-100	201-069-1	NE
Sulfamic Acid	5329-14-6	10-30	226-218-8	R36/38, R52/53

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.

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: Coarse white to yellow powder and granules, yellow in solution. Strong mint fragrance.

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): 1.8-2.5
Solubility in Water: >10%
Reserve Alkalinity: N/A

10. Stability and Reactivity

Stability: This product is stable under ordinary use and storage conditions.

Incompatibility (Materials to Avoid):

Metal nitrates (potentially explosive reaction), alkali carbonates and bicarbonates, potassium tartrate, strong oxidizers, nitric acid, and chlorine. Will corrode copper, zinc, aluminum and their alloys. Solutions are strong acids and react violently with bases.

Hazardous Decomposition/By Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition. Sulfamic Acid may emit ammonia, oxides of sulfur, oxides of nitrogen, and oxides of carbon.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Avoid heat, flames, ignition sources and incompatibles.

Other Recommendations: Read and follow all directions for use.

11. Toxicological Information

ACUTE EFFECTS

Eye Effects: For Citric Acid: Rabbit: 750 ug/24H severe
For Sulfamic Acid: Rabbit (Std Draize): 250 ug/24H Severe

Skin Effects: For Citric Acid: Rabbit: rabbit: 500 mg/24H mild
For Sulfamic Acid: Human (Std Draize): 4%/5D-I mild
For Sulfamic Acid: Rabbit (Std Draize): 500 mg/24H severe

Dermal LD50: No data available for the product.

Oral LD50: For Citric Acid: rat LD50: 3 gm/kg
For Sulfamic Acid: rat LD50: 3160 mg/kg

Inhalation LC50: No data available for the product.

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: No data available for the product.

Reproductive Effects: No data available for the product.

Developmental Effects: No data available for the product.

12. Ecological Information

Ecotoxicological Information: No data available for the product.

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: SULFAMIC ACID, MIXTURE

TECHNICAL NAME: NA

HAZARD CLASS: 8

UN/NA NUMBER: 2967

PACKING GROUP: III

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: 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.

15. Regulatory Information Continued:

EINECS INVENTORY STATUS: Listed

HAZARD AND RISK PHRASE DESCRIPTIONS:

Hazard Symbols: Xi (Irritant)

Risk Phrases: **R36/38** - Irritating to eyes and skin. **R52/53** - Harmful to aquatic organisms, may cause long-term effects in the aquatic environment (as from July 2002)

Safety Phrases: **S2** -Keep out of the reach of children. **S26** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. **S28** - After contact with skin, wash immediately with plenty of water. **S61** - Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. Other Information

Other Information:

Hazard Rating:	Health: 3	4=EXTREME
	Flammability: 1	3=HIGH
	Reactivity: 0	2=MODERATE
		1=SLIGHT

REVISION SUMMARY: This MSDS replace Rev 3 issued in 1/08/06. 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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