

# Material Safety Data Sheet

## **Pro Clean™ Cleaner**

MSDS, Rev. 5

Last revised: 01-March-2012

Approved for Use: 09-March-2009

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

**Product Name: Pro Clean™ Cleaner**

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

<b>CHEMICAL NAME</b>	<b>CAS #:</b>	<b>WT/WT %</b>	<b>EINECS #</b>	<b>R Phrases</b>
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.

## 5. Fire-Fighting Measures

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

**Extinguishing Media:** Water spray, dry chemical, alcohol foam, or carbon dioxide.

**Special Fire Fighting Procedures:**

Use self contained breathing apparatus and protective equipment.

**Fire/Explosion Hazards:** As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**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, zinc or nickel containers.

**Suitable Packaging:** PET, HDPE, related plastics

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

**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):** 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**

<b>PROPER SHIPPING NAME:</b>	SULFAMIC ACID, MIXTURE
<b>TECHNICAL NAME:</b>	NA
<b>HAZARD CLASS:</b>	8
<b>UN/NA NUMBER:</b>	2967
<b>PACKING GROUP:</b>	III
<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:** 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:**

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

**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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