

SAFETY DATA SHEETS

This SDS packet was issued with item:

075819990

N/A

Material Safety Data Sheet

Pro Clean™ Cleaner

MSDS, Rev. 5

Last revised: 01-March-2012

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: 610-239-6053 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

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.

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.

021256 Rev3

Safety Data Sheet

Pro Clean™ Cleaner

*1. Identification

Product Name: Pro Clean™ Cleaner

Premier® Dental Products Company
1710 Romano Drive
Plymouth Meeting, PA 19462
Phone: 610-239-6000 F a x : 610-239-6171
Emergency Phone: 610-239-6000

Recommended Use: Tartar and stain remover for dentures, partials, retainers and night guards.

Restrictions for Use: No known restrictions.

2. Hazard(s) Identification

Classification of the substance or mixture



Corrosion

Causes severe skin burns and eye damage



Causes serious eye irritation

Label elements

GHS label elements

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

Hazard pictograms



Signal word: Danger

Hazard statements

Causes severe skin burns and eye damage

Precautionary statements

Do not breathe dust/fume/gas/mist/vapours/spray.

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

Wash thoroughly after handling.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

Specific treatment (see on this label)

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Wash contaminated clothing before reuse.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER/doctor.

Store locked up.

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

Classification system:

NFPA ratings (scale 0 - 4)



Health = 3

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	3	Health = 3
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

*3. Composition / Information on Ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components:		
77-92-9	citric acid ⚠ Eye Irrit. 2A, H319	60-100%
5329-14-6	sulphamidic acid ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	10-30%

*4. First Aid Measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

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

Inhalation

Take affected persons into fresh air and keep quiet. If having difficulty breathing, contact emergency personnel immediately.

After skin contact:

Remove contaminated clothing. Wash clothing before reuse.

If irritation occurs consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

Eyes

Flush with large volumes of water for 15 minutes. If irritation persists, seek medical attention.

Ingestion

Do not induce vomiting. Drink large volumes of water. Contact physician promptly.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

*5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

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

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

Wear protective equipment. Keep unprotected persons away.

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.

Pick up mechanically.

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 Avoid contact with skin, eyes and clothing

Information about protection against explosions and fires:

Avoid dust formation and control ignition sources.

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 PET, HDPE and/or related plastics for suitable packaging

Keep receptacle tightly sealed.

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/m³ (total dust); 5 mg/mg³ (resp fraction)

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

Exposure controls

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

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 and skin.

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.

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

Safety glasses

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 yellow
Odor: Strong mint fragrance
Odor threshold: Not determined.

pH-value @ 20 °C (68 °F): 2

Change in condition

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

Flash point: Not applicable.

Flammability (solid, gaseous): Not determined.

Ignition temperature:

Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapor pressure: Not applicable.

Density: Not determined.

Relative density Not determined.

Vapour density Not applicable.

Evaporation rate Not applicable

Solubility in / Miscibility with

Water: >10%

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

Solvent content:

Organic solvents: 0.0 %

Solids content: 100.0 %

Other information 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: Heat, flame and ignition sources.

Incompatible materials:

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 of this material are strong acids and react violently with bases

Hazardous decomposition 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

*11. Toxicological Information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

77-92-9 citric acid

Oral	LD50	5040 mg/kg (mouse)
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5329-14-6 sulphamidic acid

Oral	LD50	3160 mg/kg (rat)
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Primary irritant effect:

on the skin: Strong caustic effect on skin and mucous membranes.

on the eye: Corrosive effect.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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.

Bio-accumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Pro Clean can be neutralized by adding one level tablespoon of baking soda (sodium bicarbonate) over a sink.

Excessive foaming may occur but can be safely rinsed down the drain.

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 without first neutralizing. Pro Clean can be neutralized by adding one level tablespoon of baking soda (sodium bicarbonate) over a sink. Excessive foaming may occur but can be safely rinsed down the drain.

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 UN3260

ADR, IMDG, IATA UN2967

UN proper shipping name

DOT Corrosive solid, acidic, inorganic, n.o.s. (Sulfamic acid)

ADR UN2967 Sulfamic acid, mixture

IMDG, IATA SULPHAMIC ACID, mixture

Transport hazard class(es)

DOT



Class 8 Corrosive substances

Label 8

ADR



Class 8 (C2) Corrosive substances

Label 8

IMDG, IATA



Class 8 Corrosive substances

Label 8

Packing group

DOT, ADR, IMDG, IATA III

Environmental hazards:

Marine pollutant: No

Special precautions for user Warning: Corrosive substances

Danger code (Kemler): 80

EMS Number: F-A,S-B

Segregation groups Acids

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

Transport/Additional information:

DOT

Quantity limitations On passenger aircraft/rail: 25 kg
On cargo aircraft only: 100 kg

ADR

Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

IMDG

Limited quantities (LQ) 5 kg
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

UN "Model Regulation": UN2967, Sulfamic acid, mixture, 8, III

15. Regulatory Information

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

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements

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

Hazard pictograms



Signal word Danger

Hazard statements

Causes severe skin burns and eye damage.

Precautionary statements

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

Specific treatment (see on this label).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Store locked up.

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

National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

State Right to Know

77-92-9	citric acid ⚠ Eye Irrit. 2A, H319	60-100%
5329-14-6	sulphamidic acid ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	10-30%

All ingredients are listed.

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

16. Other Information

Premier's revision date: 11/05/2015

Revision Number: 5

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C

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

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

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

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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

SDS created by MSDS Authoring Services

www.msdsauthoring.com

(877) 204-9106

Supplier number: 072114

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