

# Safety Data Sheet

## Pro Clean<sup>™</sup> Cleaner

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### \*1. Identification

**Product Name: Pro Clean<sup>™</sup> 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 |
| FIRE       | 1 |
| REACTIVITY | 0 |

Health = 3

Fire = 1

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

### \*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.

##### After 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.

##### After eye contact:

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes.

Seek medical treatment.

##### After swallowing:

Give large amounts of water or milk.

Do not induce vomiting; immediately call for medical help.

**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:

CO<sub>2</sub>, 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/m<sup>3</sup> (total dust); 5 mg/m<sup>3</sup> (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:**

|                        |                       |
|------------------------|-----------------------|
| <b>Form:</b>           | Crystalline powder    |
| <b>Color:</b>          | White to yellow       |
| <b>Odor:</b>           | Strong mint fragrance |
| <b>Odor threshold:</b> | Not determined.       |

|                                  |   |
|----------------------------------|---|
| <b>pH-value @ 20 °C (68 °F):</b> | 2 |
|----------------------------------|---|

**Change in condition**

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Melting point/Melting range:</b> | Not determined. |
|-------------------------------------|-----------------|

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Boiling point/Boiling range:</b> | Not determined. |
|-------------------------------------|-----------------|

|                     |                 |
|---------------------|-----------------|
| <b>Flash point:</b> | Not applicable. |
|---------------------|-----------------|

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Flammability (solid, gaseous):</b> | Not determined. |
|---------------------------------------|-----------------|

**Ignition temperature:**

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Decomposition temperature:</b> | Not determined. |
|-----------------------------------|-----------------|

|                       |                               |
|-----------------------|-------------------------------|
| <b>Auto igniting:</b> | Product is not self-igniting. |
|-----------------------|-------------------------------|

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>Danger of explosion:</b> | Product does not present an explosion hazard. |
|-----------------------------|-----------------------------------------------|

**Explosion limits:**

|               |                 |
|---------------|-----------------|
| <b>Lower:</b> | Not determined. |
|---------------|-----------------|

|               |                 |
|---------------|-----------------|
| <b>Upper:</b> | Not determined. |
|---------------|-----------------|

|                        |                 |
|------------------------|-----------------|
| <b>Vapor pressure:</b> | Not applicable. |
|------------------------|-----------------|

|                 |                 |
|-----------------|-----------------|
| <b>Density:</b> | Not determined. |
|-----------------|-----------------|

|                         |                 |
|-------------------------|-----------------|
| <b>Relative density</b> | Not determined. |
|-------------------------|-----------------|

|                       |                 |
|-----------------------|-----------------|
| <b>Vapour density</b> | Not applicable. |
|-----------------------|-----------------|

|                         |                |
|-------------------------|----------------|
| <b>Evaporation rate</b> | Not applicable |
|-------------------------|----------------|

**Solubility in / Miscibility with**

|               |      |
|---------------|------|
| <b>Water:</b> | >10% |
|---------------|------|

|                                                 |                 |
|-------------------------------------------------|-----------------|
| <b>Partition coefficient (n-octanol/water):</b> | Not determined. |
|-------------------------------------------------|-----------------|

**Viscosity:**

|                 |                 |
|-----------------|-----------------|
| <b>Dynamic:</b> | Not applicable. |
|-----------------|-----------------|

|                   |                 |
|-------------------|-----------------|
| <b>Kinematic:</b> | Not applicable. |
|-------------------|-----------------|

**Solvent content:**

|                          |       |
|--------------------------|-------|
| <b>Organic solvents:</b> | 0.0 % |
|--------------------------|-------|

|                        |         |
|------------------------|---------|
| <b>Solids content:</b> | 100.0 % |
|------------------------|---------|

|                          |                                           |
|--------------------------|-------------------------------------------|
| <b>Other information</b> | 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) |
|------|------|--------------------|

**5329-14-6 sulphamidic acid**

|      |      |                  |
|------|------|------------------|
| Oral | LD50 | 3160 mg/kg (rat) |
|------|------|------------------|

**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.

**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.

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

All ingredients are listed.

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

**16. Other Information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Premier's revision date:** 08-22-2014

**Revision Number:** 4

**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.**

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