

SAFETY DATA SHEETS

This SDS packet was issued with item:

075835376

N/A

Material Safety Data Sheet

Removalon®-I Cleaner

MSDS, Rev. 5

Last revised: 09-March-2012

Approved for Use: 09-March-2009

1. Chemical product and company identification

Product Name: Removalon®-I 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: None known.

Health Hazards (Acute and Chronic):

Eye Contact: Highly irritating; may also be abrasive.

Skin: Causes irritation to skin.

Inhalation: May irritate the upper respiratory tract and mucus membranes.

Ingestion: May cause irritation of the digestive tract. Extremely large oral dosages may produce gastrointestinal disturbances. Calcium deficiency in blood may result in severe cases of ingestion. Chronic or heavy acute ingestion may cause tooth enamel erosion.

Signs and Symptoms of Exposure:

Eye Contact: Burning, irritation, pain, and redness of eyes.

Skin Contact: Irritation may include redness, itching and pain.

Inhalation: Sneezing, coughing, shortness of breath.

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
Citric Acid	77-92-9	60-100	201-069-1	NE

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, induce vomiting immediately as directed by medical personnel. 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: No additional information available.

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: 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: Blue/green powder and granules, greenish blue 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): 2.2-2.8
Solubility in Water: >10%
Reserve Alkalinity: N/D

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, Acids, ferric salts, strong oxidizers. Will corrode copper, zinc, aluminum and their alloys.

Hazardous Decomposition/By Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

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
Skin Effects: For Citric Acid: Rabbit: rabbit: 500 mg/24H mild
Dermal LD50: No data available for the product.
Oral LD50: For Citric Acid: Rat: 3 gm/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:	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: 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: No data available.

Risk Phrases: No data available.

Safety Phrases: No data available.

16. Other Information

Hazard Rating:	Health:	2	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.

021260 Rev3

SAFETY DATA SHEET

Removalon[®]-I Cleaner

*1. Identification

Product Name: Removalon[®]-I Cleaner
Premier[®] Dental Products Company
1710 Romano Drive
Plymouth Meeting, PA 19462
Phone: 610-239-6000 Fax: 610-239-6171
Emergency Phone: 610-239-6000

Recommended Use: Cement Remover

Restrictions for Use: No known restrictions

2. Hazard(s) Identification

Classification of the substance or mixture



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 Warning

Hazard statements

Causes serious eye irritation.

Precautionary statements

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

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

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 2

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 2

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	Eye Irrit. 2A, H319	60-100%
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*4. First-Aid Measures

Description of first aid measures

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:

Seek immediate medical advice.

Induce vomiting and call for medical help.

Never give anything by mouth to an unconscious person

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 Not required.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: 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:

Keep receptacle tightly sealed.

Use plastics or stainless steel for suitable packaging.

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/m³ (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.

Avoid contact with the eyes and skin.

Breathing equipment: Not required.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Select glove material based on penetration times, rates of diffusion and degradation.

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:	Blue green
Odor:	No significant odor
Odor threshold:	Not determined.

pH-value:	2.6
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Change in condition

Melting point/Melting range:	Not determined.
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Boiling point/Boiling range:	Not determined.
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Flash point:	Not applicable.
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Flammability (solid, gaseous):	Not determined.
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Ignition temperature:

Decomposition temperature:	Not determined.
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Auto igniting:	Product is not selfigniting.
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Danger of explosion:	Product does not present an explosion hazard.
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Explosion limits:

Lower:	Not determined.
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Upper:	Not determined.
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Vapor pressure:	Not applicable.
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Density:	Not determined.
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Relative density	Not determined.
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Vapour density	Not applicable.
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Evaporation rate	Not applicable.
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Solubility in / Miscibility with

Water: >10%

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

Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

Solvent content:

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:

Carbon dioxide and carbon monoxide may form when heated to decomposition

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.

11. Toxicological Information*Information on toxicological effects****Acute toxicity:**

LD/LC50 values that are relevant for classification:

77-92-9 citric acid

Oral	LD5	5040 mg/kg (mouse)
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Primary irritant effect:

on the skin: Causes skin irritation

on the eye: Irritating effect.

Additional toxicological information:

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

Irritant

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.

Bioaccumulative 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

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.***14. Transport Information:****UN-Number****DOT, ADR, ADN, IMDG, IATA:** Non-Regulated Material**UN proper shipping name****DOT, ADR, ADN, IMDG, IATA:** Non-Regulated Material**Transport hazard class(es)****DOT, ADR, ADN, IMDG, IATA****Class:** Non-Regulated Material**Packing group****DOT, ADR, IMDG, IATA:** Non-Regulated Material**Environmental hazards:****Marine pollutant:** No**Special precautions for user:** Not applicable**Transport in bulk according to Annex II of****MARPOL73/78 and the IBC Code:** Not applicable.**UN "Model Regulation":** -**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 Warning

Hazard statements

Causes serious eye irritation

Precautionary statements

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

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

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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%

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

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

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

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