SAFETY DATA SHEETS

This SDS packet was issued with item:

075858592

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071088392

Material Safety Data Sheet

Vac Attak™ Evacuation Cleaner

MSDS, Rev. 7
Last revised: 01-March -2012
Approved for Use: 09-March -2009

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1. Chemical product and company identification

Product Name: Vac Attak™ Evacuation 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: Causes irritation. Solutions are severe irritants to the eye. Contact of Sodium Carbonate and Sodium Metasilicate are corrosive to eyes.
Skin: Contact with skin can cause irritation. May be harmful if absorbed through the skin.
Inhalation: May irritate the upper respiratory tract and mucus membranes. Dust corrosive to respiratory tract.
Ingestion: May cause irritation of the digestive tract.

Signs and Symptoms of Exposure:
Eye Contact: Burning, irritation, pain, and redness of eyes. Risk of serious injury from Sodium Carbonate increases if eyes are kept tightly closed and other symptoms may appear from absorption of into the bloodstream via the eyes.
Skin Contact: Irritation and redness. Sodium Metasilicate may cause severe burns.
Inhalation: Sneezing, coughing, irritation to nose/throat and possible lightheadedness
Ingestion: Swallowing Sodium Metasilicate can cause severe burns of the mouth, throat, esophagus and stomach.

3. Composition / Information on Ingredients:

CHEMICAL NAME	CAS #:	WT/WT %	EINECS #	R Phrases
Sodium Edetate	64-02-8	15-40	200-573-9	R22, R41
Sodium Carbonate	497-19-8	15-40	207-838-8	R36
Sodium Metasilicate	6834-92-0	1-5	229-912-9	R34,R37

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.

Notes to medical doctor:
This product contains sodium carbonate at a low concentration. While no adverse complications are expected, consider endoscopy in all suspected cases of poisoning. Perform blood analysis to determine if dehydration, acidosis, or other electrolyte imbalances occurred.

5. Fire-Fighting Measures

Flash Point (Method Used): N/A **Explosive Limits**: *LEL*: N/A *UEL*: N/A
Extinguishing Media: Use any means suitable for extinguishing surrounding fire.
Special Fire Fighting Procedures:
Use self contained breathing apparatus and protective equipment.
Fire/Explosion Hazards: Not applicable
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, fiberglass, brass, zinc, or nickel or galvanized 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: Coarse whitish/orange powder and granules, yellow in solution. Strong lemon 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): 10.5 – 11.50
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):
Oxidizing agents, strong bases, copper, copper alloys, nickel, fluorine, aluminum, phosphorous pentoxide, sulfuric acid, zinc, lithium, moisture, calcium hydroxide and 2,4,6-trinitrotoluene, and reacts violently with acids to form carbon dioxide and heat. Sodium Metasilicate may react with ammonium salt solutions resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc. Carbon monoxide gas may be produced on contact with reducing sugars.
Hazardous Decomposition/By Products:
Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, oxides of phosphorus and sodium oxides. Sodium Metasilicate forms sodium ions and silicic acid when heated to decomposition
Hazardous Polymerization: Will not occur
Conditions to Avoid: Avoid strong oxidizing agents, aluminum, heat, moisture and other incompatibles.
Other Recommendations: Read and follow all directions for use.

11. Toxicological Information

ACUTE EFFECTS

Eye Effects:	For Edetate: Rabbit (Std Draize): 100 mg/24H, moderate For Sodium Carbonate: rabbit: 50 mg severe
Skin Effects:	For Edetate: Rabbit (Std Draize): 500 mg/24H, moderate For Sodium Metasilicate: Human (Std Draize): skin= 250 mg/24-hour, severe
Dermal LD50:	No data available for the product.
Oral LD50:	For Sodium Carbonate: rat=4090 mg/kg For Sodium Metasilicate: Rat: 1153 mg/kg
Inhalation LC50:	For Sodium Carbonate: rat= 2300 mg/m^3/2H
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:	Sodium Carbonate has been investigated as a mutagen.
Reproductive Effects:	Sodium Carbonate and Sodium Metasilicate have been investigated as a reproductive effector.

Developmental Effects: No data available for the product.

12. Ecological Information

Ecotoxicological Information:

For Edetate: Freshwater Fish Data: 96 Hr LC50 bluegill sunfish: 490 mg/L (Static)

For Sodium Carbonate: 96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]
48 Hr EC50 Daphnia magna: 265 mg/L

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./D

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.
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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: D2B, 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: Xn (Harmful), Xi (Irritant), C (Corrosive)

Risk Phrases: R22 – Harmful if swallowed, **R34** - Causes burns. **R36/37** - Irritating to eyes and respiratory system. **R41** –Risk of serious damage to eyes.

Safety Phrases: S2 -Keep out of the reach of children. **S13** - Keep away from food, drink and animal feedingstuffs. **S22** - Do not breathe dust. **S24/25** - Avoid contact with skin and eyes. **S26** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. **S36/37/S39** - Wear suitable protective clothing, gloves and eye/face protection. **S46** - If swallowed, seek medical advice immediately and show this container or label.

16. Other Information

Other Information:

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

REVISION SUMMARY: This MSDS replace Rev 5 issued in 1/8/06. 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.

Safety Data Sheet
Vac Attak™ Evacuation Cleaner

***1. Identification**

Product Name: Vac Attak™ Evacuation Cleaner

Premier® Dental Products Company
1710 Romano Drive
Plymouth Meeting, PA 19462
Phone: 610-239-6053 Fax: 610-239-6171
Emergency Phone: 610-239-6000

Recommended Use: Evacuation System Cleaner

Restrictions for Use: No known restrictions

2. Hazards Identification

Classification of the substance or mixture

Corrosion

Causes serious eye damage

Harmful if swallowed.
Causes skin 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-determining components of labeling:
tetrasodium ethylenediaminetetraacetate
disodium metasilicate

Hazard statements
Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.

Precautionary statements
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
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)
Take off contaminated clothing and wash before reuse.
If skin irritation occurs: Get medical advice/attention.
Rinse mouth.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water.
Immediately call a POISON CENTER/doctor.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
NFPA ratings (scale 0 - 4)

Health = 2
Fire = 0
Reactivity = 1

HMIS-ratings (scale 0 - 4)

Health = 2
Fire = 0
Reactivity = 1

*3. Composition / Information on Ingredients:

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

Dangerous Components:		
64-02-8	tetrasodium ethylenediaminetetraacetate Eye Dam. 1, H318; Acute Tox. 4, H302	15-40%
497-19-8	sodium carbonate Eye Irrit. 2, H319	15-40%
6834-92-0	disodium metasilicate Skin Corr. 1B, H314; STOT SE 3, H335	1-5%

*4. First Aid Measures

Description of first aid measures
General information:
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
In case of unconsciousness, place patient securely on side position for transportation.
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 15 minutes.
Seek medical treatment.
Rinse opened eye for several minutes under running water. Then consult a doctor.
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:
This product contains sodium carbonate at a low concentration. While no adverse complications are expected, consider endoscopy in all suspected cases of poisoning. Perform blood analysis to determine if dehydration, acidosis or other electrolyte imbalances occurred.

*5. Fire-Fighting Measures

Extinguishing media
Suitable extinguishing agents: Use fire fighting measures that suit the environment.
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: Refer to section 8
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.
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
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 skin.
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. 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:	White to orange
Odor:	No significant odor
Odor threshold:	Not determined.
pH-value @ 20 °C (68 °F):	10
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:
Avoid strong oxidizing agents, aluminum, heat, moisture and other incompatible materials as stated above.

Incompatible materials:
Oxidizing agents, strong bases, copper, copper alloys and nickel Sodium carbonate reacts with fluorine, aluminum, phosphorous pentoxide, sulfuric acid, zinc lithium, moisture, calcium hydroxide and 2,4,6-trinitrotoluene and reacts violentlywith acid to form carbon dioxide.
Hazardous decomposition products:
Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, oxides of phosphorous, oxides of sulfur and sodium oxides.

***11. Toxicological Information**
Information on toxicological effects
Acute toxicity:
Primary irritant effect:
on the skin: Irritant to skin and mucous membranes.
on the eye: Strong irritant with the danger of severe eye injury.
Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Sodium carbonate has been investigated as a mutagen and as a reproductive effector
Harmful
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 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
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, ADR, AND, IATA	Non-Regulated
IMDG	Non-Regulated Material
	Not Regulated

UN proper shipping name

DOT, ADR, AND, 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 Danger

Hazard-determining components of labeling:
tetrasodium ethylenediaminetetraacetate
disodium metasilicate
Hazard statements
Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
Precautionary statements
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.

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).
Take off contaminated clothing and wash before reuse.
If skin irritation occurs: Get medical advice/attention.
Rinse mouth.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water.
Immediately call a POISON CENTER/doctor.
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		
64-02-8	tetrasodium ethylenediaminetetraacetate Eye Dam. 1, H318; Acute Tox. 4, H302	15-40%
497-19-8	sodium carbonate Eye Irrit. 2, H319	15-40%
6834-92-0	disodium metasilicate Skin Corr. 1B, H314; STOT SE 3, H335	1-5%
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: 6

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)
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam.1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, 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

SAFETY DATA SHEET
Vac Attak™ GREEN

1. Product and Company Identification

Product Name: Vac Attak™ GREEN
Product Number: 9011105

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

Indications for Use: Cleans and deodorizes evacuation cleaner
Contraindications: No known contraindications

2. Hazard Identification

Classification of the substance or mixture

Health Hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Corrosion

Eye Dam. 1 H318 Causes serious eye damage

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation

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

Hazard pictograms:

GHS05 GHS07 GHS08

Signal word: Danger

Hazard-determining components of labeling:
Tetrasodium ethylenediaminetetraacetate
Subtilisin
Sodium Benzoate
Hazard statements:
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements:

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves / eye protection / face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P302+P352	If on skin: Wash with plenty of water.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a poison center/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:
This value refers to knowledge of known, established toxicological or ecotoxicological values.
19.6 % of the mixture consists of component(s) of unknown toxicity.
Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA ratings (scale 0 - 4)

Health = 2
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 2
Fire = 0
Physical Hazard = 0

Hazard(s) not otherwise classified (HNOC): None known

3. Composition/Information on Ingredients

Non-hazardous components:		
7758-29-4	Sodium Tripolyphosphate	2-12%
527-07-1	Sodium Gluconate	2-12%

Chemical characterization: Mixtures
Description: Mixture of the substances listed below with nonhazardous additions.
Dangerous Components:

CAS: 64-02-8 RTECS: AH 5075000	Tetrasodium ethylenediaminetetraacetate Eye Dam. 1, H318; Acute Tox. 4, H302	25-50%
CAS: 7757-82-6	Sodium Sulfate	13.59%
CAS: 77-92-9 RTECS: GE 7350000	Citric Acid Skin Irrit. 2, H315; Eye Irrit. 2A, H319	2-12%
CAS: 57-13-6 RTECS: YR 6250000	Urea	2-12%
CAS: 532-32-1	Sodium Benzoate Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	2-12%
CAS: 9014-01-1 RTECS: CO 9550000	Subtilisin Resp. Sens. 1, H334; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE3,H335	≤2.5%

Additional information:
The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4. First Aid Information

Description of first aid measures
General information:
Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.
After inhalation:
Take affected persons into fresh air and keep quiet.
If having difficulty breathing, contact emergency personnel immediately
In case of unconsciousness, place patient securely on side position for transportation.
After skin contact:
Remove contaminated clothing and wash before reuse.
Wash with soap and water.
If skin irritation occurs, consult a doctor.
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.
Information for doctor
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 Information

Extinguishing media
Suitable extinguishing agents: Use fire-fighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents: No further relevant information.

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
Special protective equipment for fire-fighters:
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6. Accidental Release Information

Personal precautions, protective equipment and emergency procedures: Refer to section 8
Environmental precautions: No special measures required.
Methods and material for containment and cleaning up: Dispose contaminated material as waste according to regulations.
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.
Protective Action Criteria for Chemicals

PAC-1:		
64-02-8	Tetrasodium ethylenediaminetetraacetate	75 mg/m³
7757-82-6	Sodium Sulphate	9.8 mg/m³
7758-29-4	Sodium Tripolyphosphate	0.61 mg/m³
57-13-6	Urea	30 mg/m³
532-32-1	Sodium Benzoate	61 mg/m³
112945-52-5	Amorphous Silica	18 mg/m³
PAC-2:		
64-02-8	Tetrasodium ethylenediaminetetraacetate	830 mg/m³
7757-82-6	Sodium Sulphate	110 mg/m³
7758-29-4	Sodium Tripolyphosphate	6.8 mg/m³
57-13-6	Urea	280 mg/m³
532-32-1	Sodium Benzoate	680 mg/m³
112945-52-5	Amorphous Silica	100 mg/m³
PAC-3:		
64-02-8	Tetrasodium ethylenediaminetetraacetate	5,000 mg/m³
7757-82-6	Sodium Sulphate	650 mg/m³
7758-29-4	Sodium Tripolyphosphate	620 mg/m³
57-13-6	Urea	1,700 mg/m³
532-32-1	Sodium Benzoate	810 mg/m³
112945-52-5	Amorphous Silica	630 mg/m³

7. Handling and Storage

Handling
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:
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
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.
Particulates Not Otherwise Regulated: OSHA (PEL/TWA): 10 mg/m3 (total dust); 5 mg/mg3 (respirable fraction)
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

7757-82-6 Sodium Sulphate	
TLV	Short-term value: NIC-0.2 mg/m³ thoracic fraction of aerosol
57-13-6 Urea	
WEEL	Long-term value: 10 mg/m³
9014-01-1 Subtilisin	
REL	Short-term value: 0.00006* mg/m³ *60-min
TLV	Ceiling limit value: 0.00006 mg/m³ as 100% crystalline active pure enzyme

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.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.
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:

Safety glasses

Have a safety shower and eyewash fountain readily available in the immediate work area

Body protection:

Protective Work Clothing

Limitation and supervision of exposure into the environment: None

9. Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Crystalline powder	**Color:**	Yellowish-green
Odor:	citrus	**Odor threshold:**	Not determined
pH-value @ 20 °C (68 °F):	6 – 8		
Change in condition:		**Flash point:**	None
Melting point/Melting range:	Not determined.	**Flammability (solid, gaseous):**	Not determined
Boiling point/Boiling range:	Not determined.		
Ignition temperature:	Not applicable	**Auto igniting:**	Product is not self-igniting.
Decomposition temperature:	Not determined.		

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

Explosion limits:

Lower: Not determined Upper: Not determined

Vapor pressure:	Not applicable	**Relative density**	Not determined
Density:	Not determined	**Vapor density**	Not applicable
Evaporation rate	Not applicable		

Solubility in / Miscibility with:
Water: Soluble
Partition coefficient (n-octanol/water): Not determined

Viscosity:			
Dynamic:	Not applicable	Kinematic:	Not applicable
Solvent content:			
VOC content:	0.0%	**Solids content:**	100.0%
		Other information	No further relevant information available.

10. Stability and Reactivity

Reactivity: The product is stable under normal conditions.
Chemical stability: 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: Avoid strong oxidizers
Incompatible materials:
Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
Hazardous decomposition products:
Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, oxides of phosphorous, oxides of sulfur and sodium oxides.

11. Toxicological Information

Information on toxicological effects
Acute toxicity:

LD/LC50 values that are relevant for classification:		
64-02-8 Tetrasodium ethylenediaminetetraacetate		
Oral	LD50	630-1,260 mg/kg (Rat)
7758-29-4 Sodium Tripolyphosphate		
Oral	LD50	3,900 mg/kg (Rat)
77-92-9 Citric Acid		
Oral	LD50	5,040 mg/kg (Mouse) 5,400 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
	LC50/48 hrs	440 mg/l (Daphnia)
57-13-6 Urea		
Oral	LD50	8,471 mg/kg (Rat)
532-32-1 Sodium Benzoate		
Oral	LD50	1,600 mg/kg (Mouse) 4,070 mg/kg (Rat) 2,000 mg/kg (Rabbit)
9014-01-1 Subtilisin		
Oral	LD50	3,700 mg/kg (Rat)

Primary irritant effect:
On the skin: Strong caustic effect on skin and mucous membranes.
On the eye: Strong irritant with the danger of severe eye injury.
Corrosive effect.
Causes serious eye irritation.
Additional toxicological information: Harmful

Carcinogenic categories
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

112945-52-5	Amorphous Silica	3

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:	
7757-82-6 Sodium Sulphate	
EC50	2,564 mg/l (Water flea)
77-92-9 Citric Acid	
EC50	1,534 mg/l (Daphnia)
57-13-6 Urea	
EC50	>10,000 mg/l (Daphnia)

Persistence and degradability: No further relevant information available.
Behavior in environmental systems:
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.
Additional ecological information:
General notes: Generally not 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.

Uncleaned packaging
Recommendation: Disposal must be made according to official regulations

14. Transport Information

UN-Number:
DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material
UN proper shipping name:
DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material
Transport hazard class(es):

DOT, ADR/ADN, ADN, IMDG, IATA

Class: Non-Regulated Material

Packing group:

DOT, ADR/ADN, IMDG, IATA Non-Regulated Material

Environmental hazards: Not applicable.

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": Non-Regulated Material

15. Regulatory Information

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

SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):	
None of the ingredients are listed.	
Section 313 (Specific toxic chemical listings):	
7758-29-4	Sodium Tripolyphosphate
TSCA (Toxic Substances Control Act):	
64-02-8	Tetrasodium ethylenediaminetetraacetate
7757-82-6	Sodium Sulphate
7758-29-4	Sodium Tripolyphosphate
77-92-9	Citric Acid
57-13-6	Urea
527-07-1	Sodium Gluconate
532-32-1	Sodium Benzoate
9014-01-1	Subtilisin
Hazardous Air Pollutants	
None of the ingredients are listed.	

California Proposition 65:

Chemicals known to cause cancer:		
None of the ingredients are listed.		
Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.		
New Jersey Right-to-Know List:		
None of the ingredients are listed.		
New Jersey Special Hazardous Substance List:		
None of the ingredients are listed.		
Pennsylvania Right-to-Know List:		
7757-82-6	Sodium Sulphate	
7758-29-4	Sodium Tripolyphosphate	
Pennsylvania Special Hazardous Substance List:		
7757-82-6	Sodium Sulphate	E
7758-29-4	Sodium Tripolyphosphate	E

Carcinogenic categories:

EPA (Environmental Protection Agency):		
57-13-6	Urea	II
TLV (Threshold Limit Value established by ACGIH):		
None of the ingredients are listed.		
NIOSH-Ca (National Institute for Occupational Safety and Health):		
None of the ingredients are listed.		

GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictograms:

GHS05 GHS07 GHS08

Signal word: Danger

Hazard-determining components of labeling:
Tetrasodium ethylenediaminetetraacetate
Subtilisin
Sodium Benzoate
Hazard statements:
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements:

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves / eye protection / face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P302+P352	If on skin: Wash with plenty of water.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a poison center/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:
None of the ingredients are listed.

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

16. Other Information

Premier's revision date: 19-Mar-2019
Revision number: 1

Abbreviations and acronyms:
ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit Acute
Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
Resp. Sens. 1: Respiratory sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
* Data compared to the previous version altered.
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