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:		**Solids content:**	100.0%
VOC content:	0.0%	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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