

## **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:**

<b>CHEMICAL NAME</b>	<b>CAS #:</b>	<b>WT/WT %</b>	<b>EINECS #</b>	<b>R Phrases</b>
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/m<sup>3</sup> (total dust); 5 mg/m<sup>3</sup> (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 (H<sub>2</sub>O=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

<b>Eye Effects:</b>	For Edetate: Rabbit (Std Draize): 100 mg/24H, moderate For Sodium Carbonate: rabbit: 50 mg severe
<b>Skin Effects:</b>	For Edetate: Rabbit (Std Draize): 500 mg/24H, moderate For Sodium Metasilicate: Human (Std Draize): skin= 250 mg/24-hour, severe
<b>Dermal LD50:</b>	No data available for the product.
<b>Oral LD50:</b>	For Sodium Carbonate: rat=4090 mg/kg For Sodium Metasilicate: Rat: 1153 mg/kg
<b>Inhalation LC50:</b>	For Sodium Carbonate: rat= 2300 mg/m <sup>3</sup> /2H
<b>Sensitization:</b>	No data available for the product.

### CHRONIC EFFECTS

<b>Carcinogenicity:</b>	None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.
<b>Mutagenicity:</b>	Sodium Carbonate has been investigated as a mutagen.
<b>Reproductive Effects:</b>	Sodium Carbonate and Sodium Metasilicate have been investigated as a reproductive effector.
<b>Developmental Effects:</b>	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.

## 14. Transport Information:

### DOT GROUND TRANSPORT

<b>PROPER SHIPPING NAME:</b>	Not regulated.
<b>TECHNICAL NAME:</b>	NA
<b>HAZARD CLASS:</b>	NA
<b>UN/NA NUMBER:</b>	NA
<b>PACKING GROUP:</b>	NA
<b>MARINE POLLUTANT:</b>	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:**

<b>Hazard Rating:</b>	<b>Health:</b>	2	<b>4=EXTREME</b>
	<b>Flammability:</b>	0	<b>3=HIGH</b>
	<b>Reactivity:</b>	1	<b>2=MODERATE</b>
			<b>1=SLIGHT</b>

**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.

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.

# Safety Data Sheet

## Vac Attak™ Evacuation Cleaner

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### \*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.

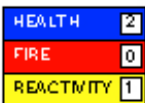
IF ON SKIN: Wash with plenty of water.

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.

<b>Dangerous Components:</b>		
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/m<sup>3</sup> (total dust); 5 mg/mg<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 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 violently with 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

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

**15. Regulatory Information:**

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

<b>Section 355 (extremely hazardous substances):</b>
None of the ingredients is listed.

<b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.

<b>TSCA (Toxic Substances Control Act):</b>
All ingredients are listed.

**Proposition 65**

<b>Chemicals known to cause cancer:</b>
None of the ingredients is listed.

<b>Chemicals known to cause reproductive toxicity for females:</b>
None of the ingredients is listed.

<b>Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients is listed.

<b>Chemicals known to cause developmental toxicity:</b>
None of the ingredients is listed.

**Carcinogenic categories**

<b>EPA (Environmental Protection Agency)</b>
None of the ingredients is listed.

<b>TLV (Threshold Limit Value established by ACGIH)</b>
None of the ingredients is listed.

<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
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.

<b>National regulations:</b>		
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.		
<b>State Right to Know</b>		
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.**

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Supplier number: 072114

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The information contained herein is based on our present knowledge. However, this information shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Premier Dental Products Company makes no warranties, express or implied with respect to, and assumes no responsibility or liability for, the accuracy or completeness of the information contained herein. Premier Dental Products Company urges persons receiving this information to make their own determination as to the information suitability for their particular application.

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111551 Rev6

# SAFETY DATA SHEET

## Vac Attak™ GREEN

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

#### 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**

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

**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/m<sup>3</sup> (total dust); 5 mg/m<sup>3</sup> (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.

<b>7757-82-6 Sodium Sulphate</b>	
TLV	Short-term value: NIC-0.2 mg/m <sup>3</sup> thoracic fraction of aerosol
<b>57-13-6 Urea</b>	
WEEL	Long-term value: 10 mg/m <sup>3</sup>
<b>9014-01-1 Subtilisin</b>	
REL	Short-term value: 0.00006* mg/m <sup>3</sup> *60-min
TLV	Ceiling limit value: 0.00006 mg/m <sup>3</sup> 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:

<b>Form:</b>	Crystalline powder	<b>Color:</b>	Yellowish-green
<b>Odor:</b>	citrus	<b>Odor threshold:</b>	Not determined
<b>pH-value @ 20 °C (68 °F):</b>	6 – 8		

<b>Change in condition:</b>		<b>Flash point:</b>	None
<b>Melting point/Melting range:</b>	Not determined.	<b>Flammability (solid, gaseous):</b>	Not determined
<b>Boiling point/Boiling range:</b>	Not determined.		
<b>Ignition temperature:</b>	Not applicable	<b>Auto igniting:</b>	Product is not self-igniting.
<b>Decomposition temperature:</b>	Not determined.		

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

#### Explosion limits:

<b>Lower:</b>	Not determined	<b>Upper:</b>	Not determined
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**Vapor pressure:** Not applicable  
**Density:** Not determined  
**Evaporation rate** Not applicable

**Relative density** Not determined  
**Vapor density** 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)
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**7758-29-4 Sodium Tripolyphosphate**

Oral	LD50	3,900 mg/kg (Rat)
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**77-92-9 Citric Acid**

Oral	LD50	5,040 mg/kg (Mouse) 5,400 mg/kg (Rat)
	LD50	>2,000 mg/kg (Rat)
Dermal	LC50/48 hrs	440 mg/l (Daphnia)

**57-13-6 Urea**

Oral	LD50	8,471 mg/kg (Rat)
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**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)
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**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
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**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**

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

<b>Section 355 (extremely hazardous substances):</b>		
None of the ingredients are listed.		
<b>Section 313 (Specific toxic chemical listings):</b>		
7758-29-4	Sodium Tripolyphosphate	
<b>TSCA (Toxic Substances Control Act):</b>		
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	
<b>Hazardous Air Pollutants</b>		
None of the ingredients are listed.		
<b>California Proposition 65:</b>		
<b>Chemicals known to cause cancer:</b>		
None of the ingredients are listed.		
<b>Chemicals known to cause reproductive toxicity for females:</b>		
None of the ingredients are listed.		
<b>Chemicals known to cause reproductive toxicity for males:</b>		
None of the ingredients are listed.		
<b>Chemicals known to cause developmental toxicity:</b>		
None of the ingredients are listed.		
<b>New Jersey Right-to-Know List:</b>		
None of the ingredients are listed.		
<b>New Jersey Special Hazardous Substance List:</b>		
None of the ingredients are listed.		
<b>Pennsylvania Right-to-Know List:</b>		
7757-82-6	Sodium Sulphate	
7758-29-4	Sodium Tripolyphosphate	
<b>Pennsylvania Special Hazardous Substance List:</b>		
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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### Supplier number: 030719

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