

**Issue Date** July 2010

**Revision Date** August 2013

**Version** 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** ProE-Vac™

### Other Means of Identification

**SDS #** PVAC/SDS/I01

**UN/ID No.** UN1760

**Product Code** PVAC

### Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Dental Evacuation System Cleaner.

### Details of the Supplier of the Safety Data Sheet

**Supplier Address** Certol International, LLC.  
6120 East 58th Avenue  
Commerce City, Colorado 80022  
[www.Certol.com](http://www.Certol.com)

### Emergency Telephone Number

#### **Company Phone Number(s)**

Phone: 303-799-9401  
Toll-Free: 1-800-843-3343  
Fax: 303-799-9408

#### **24 Hour Emergency Telephone**

INFOTRAC: 1-800-535-5053 (North America)  
INFOTRAC: 1-352-323-3500 (International)

## 2. HAZARDS IDENTIFICATION

### Classification

|   |                           |
|---|---------------------------|
| Acute Toxicity - Inhalation (Dusts / Mists) | Category 4                |
| Skin Corrosion / Irritation                 | Category 1 Sub-Category C |
| Serious Eye Damage / Eye Irritation         | Category 1                |

### Signal Word

Danger.

### Hazard Statements

Harmful if inhaled.  
Causes severe skin burns and eye damage.

### Appearance

Pink Clear Liquid.

### Physical State

Liquid.

### Odor

Fresh.



### Precautionary Statements-Prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
Use only in a well-ventilated area.  
Wear protective gloves.  
Do not breathe dust/fume/gas/mist/vapors/spray.

### Precautionary Statements-Response

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Control Center or doctor/physician.

**IF SWALLOWED:** Immediately call a Poison Control Center or doctor/physician. Rinse mouth. Do not induce vomiting.

**IF EXPOSED:** Call a Poison Control Center or doctor/physician.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Control Center or doctor/physician.

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

**IF SKIN IRRITATION OR RASH OCCUR:** Get medical advice/attention. Call a Poison Control Center or doctor/physician if you feel unwell.

## 2. HAZARDS IDENTIFICATION (continued)

### Precautionary Statements - Storage

Store in a closed container, in a cool, dry well-ventilated place away from incompatible materials.  
Do not store above 122°F (50°C).

**Keep out of the reach of children and pets.**

### Precautionary Statements - Disposal

Dispose according to all local, state and federal regulations.

### Other Information

Toxic to aquatic life.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name     | CAS No.   | Weight-% |
|-------------------|-----------|----------|
| Phosphoric Acid   | 7664-38-2 | *        |
| Glycolic Acid     | 79-14-1   | *        |
| Isopropyl Alcohol | 67-63-0   | *        |

\*The exact percentage is a trade secret.

## 4. FIRST AID MEASURES

### First Aid Measures

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately.  |
| <b>Eye Contact</b>  | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call physician immediately.  |
| <b>Ingestion</b>    | Rinse mouth. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Call a physician or Poison Control Center immediately.  |
| <b>Skin Contact</b> | Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Call a physician if you feel unwell. |

### Most Important Symptoms and Effects, both Acute and Delayed

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Causes severe skin and eye burns. Inhalation of fumes or acid mist can cause irritation and corrosive burns to the upper respiratory tract. Ingestion may cause severe burns to mouth, throat or stomach. |
|-----------------|---|

### Indication of any Immediate Medical Attention and Special Treatment Needed

|                           |                        |
|---------------------------|------------------------|
| <b>Note to Physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use water, CO<sub>2</sub>, dry chemical or foam for extinction.

### **Unsuitable Extinguishing Media**

Not Determined.

### Specific Hazards Arising from the Chemical

Contents are corrosive.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

#### **Personal Precautions**

Use personal protective equipment as required.  
The wet, contaminated surface may be slippery.

#### **For Emergency Responders**

Restrict access to spill area. Ventilate the area.

#### **Environmental Precautions**

Prevent entry into waterways, sewers, basements or confined areas.  
See Section 12 for additional ecological information.

### Methods and Material for Containment and Cleaning Up

#### **Methods for Containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for Cleaning Up**

Absorb with inert material. Shovel or sweep spills. Flush remainder with plenty of water.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

#### **Advice on Safe Handling**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protection recommended in Section 8.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only in well-ventilated areas.  
Do not breathe dust/fumes/gas/mist/vapors/spray.

**Keep out of the reach of children and pets.**

## 7. HANDLING AND STORAGE (continued)

### Conditions for Safe Storage, Including any Incompatibilities

#### Storage Conditions

Store in a closed container in a dry, cool and well-ventilated place away from incompatible materials. Do not store above 122°F (50°C).

**Keep out of the reach of children and pets.**

#### Incompatible Materials

Alkalis. Alkaline earth metals.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Guidelines

| Chemical Name                | ACGIH TLV  | OSHA PEL   | NIOSH IDLH  |
|------------------------------|--|--|---|
| Isopropyl Alcohol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm                        | TWA: 400 ppm<br>TWA: 980mg/m <sup>3</sup><br>TWA: 400 ppm (Vacated)<br>TWA: 980 mg/m <sup>3</sup> (Vacated)<br>STEL: 500 ppm (Vacated)<br>STEL: 1225 mg/m <sup>3</sup> (Vacated) | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |
| Phosphoric Acid<br>7664-38-2 | STEL: 3mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup> | TWA: 1mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup> (Vacated)<br>STEL: 3 mg/m <sup>3</sup> (Vacated)   | IDLH: 1000 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup><br>STEL: 3 mg/m <sup>3</sup>                         |

### Appropriate Engineering Controls

#### Engineering Controls

Apply technical measures to comply with the occupational exposure limits.  
Eyewash stations.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/Face Protection

Wear goggles, chemical safety glasses or a face protection shield.

#### Skin and Body Protection

Chemical resistant, impermeable gloves.  
Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### Respiratory Protection

Under normal conditions a respirator is not normally required.  
A mask or respirator may be used if vapor concentration is high.

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practices.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

|                       |                    |
|-----------------------|--------------------|
| <b>Physical State</b> | Liquid.            |
| <b>Appearance</b>     | Pink Clear Liquid. |
| <b>Color</b>          | Pink.              |
| <b>Odor</b>           | Fresh.             |

| <u>Property</u>                       | <u>Values</u>       | <u>Remarks * Method</u>           |
|---------------------------------------|---------------------|-----------------------------------|
| <b>pH</b>                             | < 2                 | 68°F (20°C)                       |
| <b>Melting Point / Freezing Point</b> | < 32°F / < 0°C      |                                   |
| <b>Boiling Point / Boiling Range</b>  | 212°F / 100°C       | (Approximate)                     |
| <b>Flash Point</b>                    | Not Flammable.      |                                   |
| <b>Evaporation Rate</b>               | < 1                 | (Butyl acetate = 1) (Approximate) |
| <b>Flammability (Solid/Gas)</b>       | N/A-Liquid.         |                                   |
| <b>Flammability Limits In Air</b>     | Not Flammable.      |                                   |
| <b>Vapor Pressure</b>                 | Not Determined.     |                                   |
| <b>Vapor Density</b>                  | > 1                 | (Air = 1) (Approximate)           |
| <b>Specific Gravity</b>               | 1.05 g/cc           | 68°F (20°C) (Water = 1)           |
| <b>Water Solubility</b>               | Completely Soluble. |                                   |
| <b>Partition Coefficient</b>          | See Section 12.     |                                   |
| <b>Autoignition Temperature</b>       | Not Flammable.      |                                   |
| <b>Decomposition Temperature</b>      | Not Determined.     |                                   |
| <b>Kinematic Viscosity</b>            | Not Determined.     |                                   |
| <b>Dynamic Viscosity</b>              | Not Determined.     |                                   |
| <b>Explosive Properties</b>           | Not Explosive.      |                                   |
| <b>Oxidizing Properties</b>           | Not Determined.     |                                   |
| <b>VOC Content (%)</b>                | < 10% (Approximate) |                                   |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization will not occur.

### Conditions to Avoid

None under normal processing.

### Incompatible Materials

Alkalis. Alkaline earth metals.

### Hazardous Decomposition Products

None known.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Product Information

|                     |                           |
|---------------------|---------------------------|
| <b>Inhalation</b>   | Harmful if inhaled.       |
| <b>Eye Contact</b>  | Causes severe eye damage. |
| <b>Skin Contact</b> | Causes severe skin burns. |
| <b>Ingestion</b>    | Do not taste or swallow.  |

#### Component Information

| Chemical Name                | Oral LD <sub>50</sub> | Dermal LD <sub>50</sub> | Inhalation LC <sub>50</sub>         |
|------------------------------|-----------------------|-------------------------|-------------------------------------|
| Isopropyl Alcohol<br>67-63-0 | 4396 mg/kg ( Rat )    | 12800 mg/kg ( Rat )     | 72.6 mg/L ( Rat ) 4 hr.             |
| Phosphoric Acid<br>7664-38-2 | 1530 mg/kg ( Rat )    | 2730 mg/kg ( Rat )      | 850 mg/m <sup>3</sup> ( Rat ) 4 hr. |
| Glycolic Acid<br>79-14-1     | 1950 mg/kg ( Rat )    | N/A                     | 7.7 mg/L ( Rat ) 4 hr.              |

### Information on Physical, Chemical and Toxicological Effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

| Chemical Name                | ACGIH | IARC    | NTP | OSHA |
|------------------------------|-------|---------|-----|------|
| Isopropyl Alcohol<br>67-63-0 | A4    | Group 3 | N/A | N/A  |

#### **IARC (International Agency for Research on Cancer)**

Group 3 - Not Carcinogenic to Humans.

#### **ACGIH (The American Conference of Governmental Industrial Hygienists)**

A4 - Not Classifiable as a Human Carcinogen.

### STOT - Single Exposure

Not Determined.

### STOT - Repeated Exposure

Not Determined.

### Numerical Measures of Toxicity

Not Determined.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic organisms.

| Chemical Name                | Algae/aquatic plants | Fish        | Toxicity to microorganisms | Crustacea      |
|------------------------------|----------------------|-------------|----------------------------|----------------|
| Isopropyl Alcohol<br>67-63-0 | Known Toxin          | Known Toxin | No Information             | Known Toxin    |
| Phosphoric Acid<br>7664-38-2 | No Information       | Known Toxin | No Information             | Known Toxin    |
| Glycolic Acid<br>79-14-1     | No Information       | Known Toxin | No Information             | No Information |

### Persistence and Degradability

Not Determined.

### Bioaccumulation

Not Determined.

### Mobility

| Chemical Name                | Partition Coefficient |
|------------------------------|-----------------------|
| Isopropyl Alcohol<br>67-63-0 | 0.05                  |
| Glycolic Acid<br>79-14-1     | -1.11                 |

### Other Adverse Effects

Not Determined.

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### Disposal of Wastes

Dispose according to all local, state and federal regulations.

#### Contaminated Packaging

Dispose according to all local, state and federal regulations.

| Chemical Name                | California Hazardous Waste Status |
|------------------------------|-----------------------------------|
| Phosphoric Acid<br>7664-38-2 | Corrosive                         |
| Isopropyl Alcohol<br>67-63-0 | Toxic / Ignitable                 |



## 14. TRANSPORT INFORMATION

### Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. Quarts and gallons are shipped as Limited Quantity. Large sizes, 5 gallons or more, are shipped as class 8.

|                    |                      |  |
|--------------------|----------------------|--|
| <b><u>DOT</u></b>  | UN/ID No             | UN1760   |
|                    | Proper Shipping Name | Corrosive Liquid, n.o.s. (Contains Phosphoric and Glycolic Acid) |
|                    | Hazard Class         | 8  |
|                    | Packing Group        | III  |
| <br>               |                      |  |
| <b><u>IATA</u></b> | UN/ID No             | UN1760   |
|                    | Proper Shipping Name | Corrosive Liquid, n.o.s. (Contains Phosphoric and Glycolic Acid) |
|                    | Hazard Class         | 8  |
|                    | Packing Group        | III  |
| <br>               |                      |  |
| <b><u>IMDG</u></b> | UN/ID No             | UN1760   |
|                    | Proper Shipping Name | Corrosive Liquid, n.o.s. (Contains Phosphoric and Glycolic Acid) |
|                    | Hazard Class         | 8  |
|                    | Packing Group        | III  |

## 15. REGULATORY INFORMATION

### International Inventories

Not Determined.

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/  
 European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

### US Federal Regulations

#### CERCLA

| Chemical Name                | Hazardous Substance RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                    |
|------------------------------|-------------------------|----------------|---|
| Phosphoric Acid<br>7664-38-2 | 5000 lb.                | N/A            | RQ 5000 lb. final RQ<br>RQ 2270 kg final RQ |

#### SARA 313

| Chemical Name     | CAS No. | SARA 313 - Threshold Values % |
|-------------------|---------|-------------------------------|
| Isopropyl Alcohol | 67-63-0 | 1%                            |

**15. REGULATORY INFORMATION (continued)**

**CWA (Clean Water Act)**

| Chemical Name                | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Phosphoric Acid<br>7664-38-2 | 5000 lb.                    | N/A                    | N/A                       | X                          |

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name                | New Jersey | Massachusetts | Pennsylvania |
|------------------------------|------------|---------------|--------------|
| Isopropyl Alcohol<br>67-63-0 | X          | X             | X            |
| Phosphoric Acid<br>7664-38-2 | X          | X             | X            |
| Propylene Glycol<br>57-55-6  | X          | N/A           | X            |

**16. OTHER INFORMATION**

**NFPA**

|                       |                     |                    |                        |
|-----------------------|---------------------|--------------------|------------------------|
| <b>Health Hazards</b> | <b>Flammability</b> | <b>Instability</b> | <b>Special Hazards</b> |
| 2                     | 0                   | 0                  | Not Determined.        |

**HMIS**

|                       |                     |                         |                            |
|-----------------------|---------------------|-------------------------|----------------------------|
| <b>Health Hazards</b> | <b>Flammability</b> | <b>Physical Hazards</b> | <b>Personal Protection</b> |
| Not Determined.       | Not Determined.     | Not Determined.         | Not Determined.            |

**Issue Date**            July 2010

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**Revision Note**        New format.

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End of Safety Data Sheet