SAFETY DATA SHEET

Issue Date March 2017
Revision Date February 2020 **Version** 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name ProE-Vac™

Other Means of Identification

SDS # PVAC/SDS/I03
UN/ID No. UN1760
Product Code PVAC

Recommended Use of the Chemical and Restrictions on Use

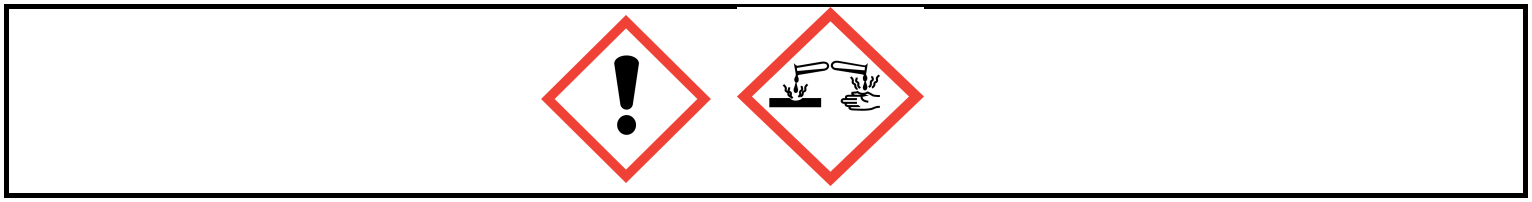
Recommended Use Dental Evacuation System Cleaner.

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
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

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

Signal Word Danger.

Physical & Chemical Hazards: None Known.

Health Hazards: Causes severe skin burns and eye damage.
Causes serious eye damage.
Harmful if inhaled.

Environmental Hazards: See section 12.

GHS Label Element

Hazard Statements

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

Precautionary Statements:

Prevention	P202	Do not handle until all safety precautions have been read and understood.
	P280	Wear eye protection.
	P260	Do not breathe dust/fumes/gas/mist/vapors/spray.
Response	P314	Get medical advice/attention if you feel unwell.
Storage	P403	Store in a well-ventilated place.
	P411	Store at temperatures not exceeding 122°F (50 °C).
Disposal	P501	Dispose according to all local, state and federal regulations.

Hazard(s) not otherwise classified (HNOC): Not determined.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

*The exact percentage is a trade secret.

4. FIRST AID MEASURES

Inhalation 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.

Eye Contact Immediately flush with plenty of water. Remove any contact lenses and continue flushing for several minutes and call a physician immediately.

Ingestion Rinse mouth and drink plenty of water. Do not induce vomiting. Never give anything by mouth to a person who is unconscious. Call a physician or Poison Control Center immediately.

Skin Contact Wash off immediately with plenty of water for several minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical attention.

Symptoms 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.

Note to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use water, CO_2, dry chemical or foam to extinguish.

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.

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
Handle in accordance with good industrial hygiene and safety practice.
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.

Conditions for Safe Storage, Including any Incompatibilities

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

Incompatible Materials
Alkalis. Alkaline earth metals.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines

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

Appropriate Engineering Controls
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, non-latex and impermeable gloves are required. 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

Physical State	Liquid	**Appearance**	Pink Clear Liquid	**Color**	Pink	**Odor**	Fresh

Property	Values	Property	Values
pH	< 2	**Specific Gravity**	1.05
Melting Point / Freezing Point	< 32°F / < 0°C	**Water Solubility**	Completely Soluble.
Boiling Point / Boiling Range	212°F / 100°C	**Partition Coefficient**	Not Determined.
Flash Point	Not Flammable.	**Autoignition Temperature**	Not Flammable.
Evaporation Rate	< 1	**Decomposition Temperature**	Not Determined.
Flammability (Solid/Gas)	N/A-Liquid.	**Kinematic Viscosity**	Not Determined.
Flammability Limits In Air	Not Flammable.	**Dynamic Viscosity**	Not Determined.
Vapor Pressure	Not Determined.	**Explosive Properties**	Not Explosive.
Vapor Density	> 1	**Oxidizing Properties**	Not Determined.
VOC Content (%)	< 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 — Avoid temperatures above 122°F (50°C).

Incompatible Materials — Alkalis. Alkaline earth metals.

Hazardous Decomposition Products — None Known.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure — Inhalation. Eye Contact. Skin Contact. Ingestion.

Information on Likely Routes of Exposure

Inhalation — Harmful if inhaled.

Eye Contact — Causes severe eye damage.

Skin Contact — Causes severe skin burns.

Ingestion — Do not taste or swallow.

Component Information

Chemical Name	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
Isopropyl Alcohol 67-63-0	5840 mg/kg (Rat)	> 12800 mg/kg (Rat)	> 10000 ppm (Rat) 6 hrs
Phosphoric Acid 7664-38-2	1530 mg/kg (Rat)	2740 mg/kg (Rabbit)	N/A
Glycolic Acid 79-14-1	2980 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 36 mg/m^3 (Rat) 4 hrs

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

Carcinogenicity — The product as a whole has not been tested.

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

ACGIH (The American Conference of Governmental Industrial Hygienists)

A4 - Not Classifiable as a Human Carcinogen.

IARC (International Agency for Research on Cancer)

Group 3 - Not Carcinogenic to Humans.

Numerical Measures of Toxicity — Not Determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl Alcohol 67-63-0	Known Toxin	Known Toxin	No Information	Known Toxin
Phosphoric Acid 7664-38-2	No Information	Known Toxin	No Information	Known Toxin
Glycolic Acid 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 67-63-0	1.1
Glycolic Acid 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
Isopropyl Alcohol 67-63-0	Toxic / Ignitable
Phosphoric Acid 7664-38-2	Corrosive

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.

DOT	**UN/ID No**	UN1760
	Proper Shipping Name	Corrosive Liquid, n.o.s. (Contains Phosphoric and Glycolic Acid)
	Hazard Class	8
	Packing Group	III
IATA	**UN/ID No**	UN1760
	Proper Shipping Name	Corrosive Liquid, n.o.s. (Contains Phosphoric and Glycolic Acid)
	Hazard Class	8
	Packing Group	III
IMDG	**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

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

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

SARA 313

Chemical Name	SARA 313 - Threshold Values %
Isopropyl Alcohol 67-63-0	1%

Clean Water Act (CWA)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric Acid 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 67-63-0	X	X	X
Phosphoric Acid 7664-38-2	X	X	X
Propylene Glycol 57-55-6	X	N/A	X

16. OTHER INFORMATION

NFPA

Health Hazards	Flammability	Instability	Special Hazards
2	0	0	Not Determined.

HMIS

Health Hazards	Flammability	Physical Hazards	Personal Protection
Not Determined.	Not Determined.	Not Determined.	Not Determined.

Issue Date March 2017.
Revision Date February 2020.
Revision Note
Disclaimer

This Safety Data Sheet was prepared to comply with the current OSHA hazard Communication Standard adoption of the Globally Harmonized System of Classifcation and Labeling of Chemicals (GHS). Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the satefy and heatlh of employees.

End of Safety Data Sheet