



SAFETY DATA SHEET

ProE-Vac™

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200.

1. Identification

Product identifier

Product name ProE-Vac™
Product number PVAC128, PVACU24

Recommended use of the chemical and restrictions on use

Application Dental Evacuation System Cleaner.

Details of the supplier of the safety data sheet

Manufacturer MICROCARE, LLC
6120 E 58th Ave
Commerce City, CO 80022
United State of America
www.microcare.com/certol
Tel: +1 303 799 9401 Toll Free +1 800 843 3343

Emergency telephone number

Emergency telephone INFOTRAC 1-800-535-5053 (U.S.A. and CANADA)
1-352-323-3500 (from anywhere in the world)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards Not Classified

Label elements

Hazard symbols



Signal word Danger

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

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Precautionary statements	<p>P260 Do not breathe vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a poison center/ doctor.</p> <p>P312 Call a poison center/ doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P411 Store at temperatures not exceeding °C/°F.</p> <p>P403 Store in a well-ventilated place.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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Contains Phosphoric Acid, Glycolic Acid

3. Composition/information on ingredients

Mixtures

Isopropyl Alcohol CAS number: 67-63-0	5-10%
Phosphoric Acid CAS number: 7664-38-2	5-10%
Glycolic Acid CAS number: 79-14-1	5-10%

4. First-aid measures

Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Call a doctor or Poison Control Center immediately.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.
Skin Contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if any discomfort continues. Get medical attention if symptoms are severe or persist.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Inhalation	Irritation of nose, throat and airway.
Ingestion	Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.
Skin contact	Causes severe skin burns and eye damage.

ProE-Vac™

Eye contact Causes serious eye damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media None known.

Special hazards arising from the substance or mixture

Specific hazards Contents are corrosive.

Advice for firefighters

Protective actions during firefighting 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 For personal protection, see Section 8. Take care as floors and other surfaces may become slippery.

For non-emergency personnel Restrict access to spill area. Ventilate area.

Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if safe to do so. Absorb with inert material. After removal, flush contaminated area thoroughly with water.

7. Handling and storage

Precautions for safe handling

Usage precautions Handle in accordance with good industrial hygiene and safety practices. Obtain special instructions before use. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only in well-ventilated areas. Keep out of the reach of children. Do not breathe gas, fume, vapours or spray.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed, in a cool, well ventilated place. Store away from incompatible materials (see Section 10). Store at temperatures not exceeding 50°C/122°F. Keep container tightly closed and dry.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

Isopropyl Alcohol

Long-term exposure limit (8-hour TWA): OSHA 400 ppm 980 mg/m³

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 492 mg/m³

Short-term exposure limit (15-minute): ACGIH 400 ppm 984 mg/m³

A4

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Phosphoric Acid

Long-term exposure limit (8-hour TWA): ACGIH 1 mg/m³

Short-term exposure limit (15-minute): ACGIH 3 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 1 mg/m³

Propylene Glycol

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

Diethyl Phthalate

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³

A4

Diphenyl Ether

Long-term exposure limit (8-hour TWA): ACGIH 1 ppm vapor

Short-term exposure limit (15-minute): ACGIH 2 ppm vapor

Long-term exposure limit (8-hour TWA): OSHA 1 ppm 7 mg/m³ vapor

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

WEL = Workplace Exposure Limit.

A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Appropriate engineering controls	Provide eyewash station.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	Wear protective gloves.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practices.
Respiratory protection	No specific requirements are anticipated under normal conditions of use. A mask or respirator may be used if vapor concentration is high.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid
Color	Pink.
Odor	Characteristic.
pH	pH (concentrated solution): < 2
Melting point	0°C/32°F
Initial boiling point and range	100°C/212°F
Evaporation rate	< 1
Flammability (solid, gas)	N/A-liquid
Vapor pressure	No specific test data are available.
Vapor density	> 1
Relative density	1.05 @ 15.5°C/60°F
Solubility(ies)	Completely soluble in water.

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Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not considered to be explosive.
Oxidizing properties	Not available.

10. Stability and reactivity

Reactivity	Not reactive under normal conditions.
Stability	Stable under the prescribed storage conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	Keep at temperature not exceeding 50°C/122°F.
Materials to avoid	Alkalis. Alkaline earth metals.
Hazardous decomposition products	None known.

11. Toxicological information

Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 1.5

Inhalation	Harmful if inhaled.
Ingestion	Harmful if swallowed.
Skin Contact	Causes severe burns.
Eye contact	Causes serious eye damage.
Route of exposure	Inhalation Skin and/or eye contact Ingestion

Toxicological information on ingredients.

Isopropyl Alcohol

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 16,000.0

ATE inhalation (vapours mg/l) 16,000.0

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

NTP carcinogenicity Not listed.

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OSHA Carcinogenicity Not listed.

Glycolic Acid

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.0

ATE inhalation (dusts/mists mg/l) 1.5

12. Ecological information

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

Ecological information on ingredients.

Isopropyl Alcohol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 9,640 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 5102 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: >2,000 mg/l, Algae

Alpha-pinene

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

Bioaccumulative potential

Partition coefficient Not available.

Ecological information on ingredients.

Isopropyl Alcohol

Partition coefficient : 0.05

Other adverse effects

Information on other hazards

13. Disposal considerations

Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible.

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Disposal methods Dispose of contents/container in accordance with national regulations. Dispose of contents/container in accordance with regional regulations. Dispose of contents/container in accordance with local regulations. Avoid the spillage or runoff entering drains, sewers or watercourses.

14. Transport information

UN Number

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN proper shipping name

Proper shipping name (TDG) LIMITED QUANTITY

Proper shipping name (IMDG) CORROSIVE LIQUIDS, N.O.S. (GLYCOLIC ACID, PHOSPHORIC ACID), LIMITED QUANTITY

Proper shipping name (ICAO) CORROSIVE LIQUIDS, N.O.S. (GLYCOLIC ACID, PHOSPHORIC ACID)

Proper shipping name (DOT) LIMITED QUANTITY

Transport hazard class(es)

IMDG Class 8

ICAO class/division 8

Packing group

IMDG packing group III

ICAO packing group III

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

DOT reportable quantity RQ: Phosphoric acid (70168.0525 lbs), RQ: Diethyl phthalate (47619047.619 lbs)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US Federal Regulations

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed:

Phosphoric Acid

SARA (311/312) Hazard Categories

Acute

US State Regulations

California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed:

Phosphoric Acid

ProE-Vac™

Isopropyl Alcohol

California Air Toxics "Hot Spots" (A-II)

The following ingredients are listed:

Diethyl Phthalate

California Directors List of Hazardous Substances

The following ingredients are listed:

Phosphoric Acid

Isopropyl Alcohol

Benzyl Acetate

Diethyl Phthalate

Pentyl Acetate

Coumarin

Diphenyl Ether

Massachusetts "Right To Know" List

The following ingredients are listed:

Phosphoric Acid

Isopropyl Alcohol

Rhode Island "Right To Know" List

The following ingredients are listed:

Phosphoric Acid

Propylene Glycol

Isopropyl Alcohol

Minnesota "Right To Know" List

The following ingredients are listed:

Phosphoric Acid

Propylene Glycol

Isopropyl Alcohol

New Jersey "Right To Know" List

The following ingredients are listed:

Phosphoric Acid

Propylene Glycol

Isopropyl Alcohol

Pennsylvania "Right To Know" List

The following ingredients are listed:

Phosphoric Acid

Propylene Glycol

Isopropyl Alcohol

Inventories

Canada - DSL/NDSL

DSL

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US - TSCA

All the ingredients are listed or exempt.

16. Other information

Revision date	8/30/2023
Revision	4
Supersedes date	8/30/2023
SDS No.	DETERGENT-PVAC
Hazard statements in full	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H332 Harmful if inhaled.
NFPA - health hazard	Temporary incapacitation, injury. (2)
NFPA - flammability hazard	Will not burn. (0)
NFPA - instability hazard	Normally stable. (0)

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.