

SAFETY DATA SHEETS

This SDS packet was issued with item:

072264463

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

072264489

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

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

| | |
|---------------------|---|
| 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. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call physician immediately. |
| Ingestion | 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. |
| Skin Contact | 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

| | |
|-----------------|---|
| 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. |
|-----------------|---|

Indication of any Immediate Medical Attention and Special Treatment Needed

| | |
|---------------------------|------------------------|
| Note to Physicians | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water, CO₂, 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 67-63-0 | STEL: 400 ppm TWA: 200 ppm | TWA: 400 ppm TWA: 980mg/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: 3mg/m ³ TWA: 1 mg/m ³ | TWA: 1mg/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

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

| | |
|-----------------------|--------------------|
| Physical State | Liquid. |
| Appearance | Pink Clear Liquid. |
| Color | Pink. |
| Odor | Fresh. |

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

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

| | |
|---------------------|---------------------------|
| 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 | 4396 mg/kg (Rat) | 12800 mg/kg (Rat) | 72.6 mg/L (Rat) 4 hr. |
| Phosphoric Acid 7664-38-2 | 1530 mg/kg (Rat) | 2730 mg/kg (Rat) | 850 mg/m ³ (Rat) 4 hr. |
| Glycolic Acid 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 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 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 | 0.05 |
| 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 |
|------------------------------|-----------------------------------|
| Phosphoric Acid 7664-38-2 | Corrosive |
| Isopropyl Alcohol 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.

| | | |
|--------------------|----------------------|--|
| <u>DOT</u> | UN/ID No | UN1760 |
| | Proper Shipping Name | Corrosive Liquid, n.o.s. (Contains Phosphoric and Glycolic Acid) |
| | Hazard Class | 8 |
| | Packing Group | III |
| | | |
| <u>IATA</u> | UN/ID No | UN1760 |
| | Proper Shipping Name | Corrosive Liquid, n.o.s. (Contains Phosphoric and Glycolic Acid) |
| | Hazard Class | 8 |
| | Packing Group | III |
| | | |
| <u>IMDG</u> | 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 7664-38-2 | 5000 lb. | N/A | RQ 5000 lb. final RQ 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 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 2 | Flammability 0 | Instability 0 | Special Hazards Not Determined. |
|----------------------------|--------------------------|-------------------------|---|

HMIS

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

Issue Date July 2010

Revision Date August 2013

Revision Note New format.

Disclaimer

The information contained herein is furnished without warranty or legal responsibility of any kind. 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 safety and health of employees.

End of Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name ProE-Vac™

Other Means of Identification

SDS # PVAC/SDS/102

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, CO₂, 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.

For Emergency Responders

The wet, contaminated surface may be slippery.

Environmental Precautions

Restrict access to spill area. Ventilate the area.

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 | IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³ |
| | | TWA: 980 mg/m ³ | |
| | | TWA: 400 ppm (Vacated) | |
| | | TWA: 980 mg/m ³ (Vacated) | |
| | | STEL: 500 ppm (Vacated) | |
| Phosphoric Acid 7664-38-2 | STEL: 3 mg/m ³ TWA: 1 mg/m ³ | TWA: 1 mg/m ³ | IDLH: 1000 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³ |
| | | TWA: 1 mg/m ³ (Vacated) | |
| | | STEL: 3 mg/m ³ (Vacated) | |

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

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Disclaimer

This Safety Data Sheet was prepared to comply with the current OSHA hazard Communication Standard adoption of the Globally Harmonized System of Classification 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 safety and health of employees.

End of Safety Data Sheet