

310 Wayto Road | Schenectady, NY 12303 ● TEL: 800-283-3888 | FAX: 518-357-9636  
EMAIL: moreinfo@sandellmfg.com | www.diedrichtechnologies.com

## ENVIRESTORE 100™ GEL

### 1. PRODUCT DATA

**Product Name:** Envirestore 100™ Gel

**Producer:** Diedrich Technologies, A Hohmann & Barnard Company, 310 Wayto Road, Schenectady, NY 12303

**Company Contact:** Ken Eglin

**Telephone:** 800-283-3888

**24-Hour Emergency Contact:** CHEMTREC 800-424-9300

*This product is manufactured for Commercial/Industrial use. Not recommended for household use.*

### 2. HAZARDS IDENTIFICATION

#### GHS Ratings:

**Inhalation Toxicity:** Acute 1

Gases<=100ppm, Vapors<=0.5mg/l, Dusts & mists<=0.05mg/l

**Skin corrosive:** 1A

Destruction of dermal tissue: Exposure < 3 min.  
Observation <1 hour, visible necrosis in at least one animal

**Eye corrosive:** 1

Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >=3, Iritis >1.5

**Respiratory sensitizer:** 1

Respiratory sensitizer

**Carcinogen:** 1B

Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity

**Reproductive toxin:** 2

Human or animal evidence possibly with other information

#### GHS Hazards

- H303** May be harmful if swallowed
- H314** Causes severe skin burns and eye damage
- H318** Causes serious eye damage
- H330** Fatal if inhaled
- H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H350** May cause cancer
- H361** Suspected of damaging fertility or the unborn child

#### GHS Precautions

- P201** Obtain special instructions before use
- P202** Do not handle until all safety precautions have been read and understood
- P260** Do not breathe dust/fume/gas/mist/vapors/spray
- P261** Avoid breathing dust/fume/gas/mist/vapors/spray
- P264** Wash hands thoroughly after handling
- P271** Use only outdoors or in a well-ventilated area
- P280** Wear protective gloves/protective clothing/eye protection/face protection
- P281** Use personal protective equipment as required
- P284** Wear respiratory protection
- P285** In case of inadequate ventilation wear respiratory protection
- P310** Immediately call a POISON CENTER or doctor/physician
- P320** Specific treatment is urgent (see Section 4)
- P321** Specific treatment (see Section 4)
- P363** Wash contaminated clothing before reuse
- P304+P340**  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P304+P341**  
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P308+P313**  
IF exposed or concerned: Get medical advice/attention
- P342+P311**  
Call a POISON CENTER or doctor/physician
- P301+P330+P331**  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P303+P361+P353**  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P305+P351+P338**  
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
- P405** Store locked up

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**P403+P233**

Store in a well ventilated place. Keep container tightly closed

**P501** Dispose of contents/container to appropriate waste site or reclaimer in accordance with local and national regulations

**Danger**



**Hazards Not Otherwise Classified:** None

**3. COMPOSITION**

Chemical Name	CAS number	Weight Concentration %
Phosphoric acid	7664-38-2	14.00%
Citric Acid	77-92-9	10.00%
Glycolic Acid	79-14-1	9.00%
Ammonium bifluoride	1341-49-7	4.00%
Diethylene glycol monobutyl ether	112-34-5	2.00%
Sulfuric acid	7664-93-9	2.00%

**4. FIRST AID**

**Inhalation:** Remove from further exposure. For those providing assistance, avoid exposure to yourself. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, a trained individual should attempt to resuscitate while getting immediate medical aid.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes.

**Skin Contact:** In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

**Ingestion:** If conscious, give 2 to 3 glasses of water. Do not induce vomiting and seek medical attention immediately.

**Notes to Physician:** No data found.

**5. FIRE FIGHTING MEASURES**

**Flammable Limits:** LEL&UEL- No data found.

**Flash Point:** No data available.

**Extinguishing Media:** Use extinguishing agent suitable for type of surrounding fire.

**Unusual Fire or Explosion Hazards:** No data available.

**Hazardous Combustion Products:** See Section 10 for a list of hazardous decomposition products for this mixture.

**Fire Fighting:** If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

**Fire Fighting:** Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Stop leak if you can do it without risk, stay upwind, and avoid run off to waterways and sewers.

**SMALL SPILLS:** Prevent entry into waterways, sewers, basements or confined areas. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

**LARGE SPILLS:** Prevent entry into waterways, sewers, basements or confined areas. Dike to collect large liquid spills, collect leaking liquid in sealable compatible containers.

**ACID SPILLS:** Neutralize with Soda Ash, (Sodium Carbonate) Hydrated Lime, (Calcium Hydroxide) or Baking Soda (Sodium Bicarbonate). Cautiously neutralize remainder. Then wash away with plenty of water.

**7. HANDLING AND STORAGE**

**Handling Precautions:** Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containment closed when not in use. Do not handle or store material near heat, sparks, or open flames, or other sources of ignition.

**Storage:** Prevent from freezing. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).

**Regulatory Requirements:** No data found

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**8 - EXPOSURE CONTROL AND PERSONAL PROTECTION**

Chemical Name/CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Phosphoric acid 7664-38-2	1 mg/m3 TWA	3 mg/m3 STEL 1 mg/m3 TWA	NIOSH: 1 mg/m3 TWA 3 mg/m3 STEL
Citric Acid 77-92-9	Not Established	Not Established	Not Established
Glycolic Acid 79-14-1	Not Established	Not Established	Not Established
Ammonium bifluoride 1341-49-7	Not Established	Not Established	Not Established
Diethylene glycol monobutyl ether 112-34-5	Not Established	10 ppm TWA (inhalable fraction and vapor)	Not Established
Sulfuric acid 7664-93-9	1 mg/m3 TWA	0.2 mg/m3 TWA (thoracic fraction)	NIOSH: 1 mg/m3 TWA

**Engineering controls:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

**Ventilation Control:** Provide adequate ventilation to control airborne concentration below the exposure guidelines/limits.

**Administrative controls:** No data found.

**Personal Protection:** As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard Assessment of all workplaces to determine the need for proper protective equipment for each employee.

**Eye Protection:** Normal industrial eye protection practices should be employed.

**Skin Protection:** In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Respiratory:** If airborne concentration limits are not met, an approved respirator must be worn.

**Contaminated Equipment:** Dispose of the waste in compliance with federal, state, regional, and local regulations

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Decomposition temperature:** Not Determined  
**Viscosity:** Not Determined  
**Density:** 1.21  
**Melting point:** Not Determined  
**Freezing point:** Not Determined  
**Solubility:** Complete  
**Boiling range:** 100°C  
**Flash point:** 999°C, 999°F  
**Evaporation rate:** Not Determined  
**Flammable Limits:** LEL & UEL – N/A  
**Appearance:** Clear, Colorless Gel  
**Odor:** Pungent  
**Physical State:** Liquid  
**Vapor Pressure:** Not Determined  
**Odor threshold:** Not Determined  
**Vapor Density:** Not Determined  
**pH:** Strong Acid <1  
**Explosive Limits:** N/A  
**Partition coefficient (n-Octanol/water):** Not Determined  
**Autoignition temperature:** 228°C  
**Weight Per Gallon:** 8.3 lbs

**10. STABILITY AND REACTIVITY**

**Stability:** STABLE  
**Incompatibilities:** Avoid contact with strong bases.  
**Hazardous Decomposition Products:**  
*Note:* these are all possible decomposition products based on molecular structure of components:  
 Oxides of Carbon  
 Oxides of Sulfur  
 Oxides of Phosphorus  
 Hydrogen or Hydrogen Fluoride  
 Oxides of Nitrogen or Ammonia

**Hazardous polymerization:** will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Mixture Toxicity**  
*Oral Toxicity:* LD50: 2,334mg/kg  
*Inhalation Toxicity:* LC50: 0mg/L

**Component Toxicity**  
 7664-38-2 Phosphoric acid  
 Oral LD50: 1,530 mg/kg (Rat)  
 Dermal LD50: 2,730 mg/kg (Rabbit)

1341-49-7 Ammonium bifluoride  
 Oral LD50: 130 mg/kg (Rat)

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112-34-5 Diethylene glycol monobutyl ether  
 Oral LD50: 3,384 mg/kg (Rat)  
 Dermal LD50: 2,700 mg/kg; (Rabbit)

7664-93-9 Sulfuric acid  
 Oral LD50: 2,140 mg/kg (Rat)  
 Inhalation LC50: 510 mg/m3 (Rat)

**Carcinogen Rating**

7664-93-9 Sulfuric acid 2% by weight  
 IARC: Human carcinogen  
 OSHA: listed

**Routes of entry:** No data found.

**Target Organs:** Eyes, Skin, Respiratory System

**Effects of Overexposure:** Causes severe skin burns and eye damage

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** No data available for this product.

**Component Ecotoxicity**

Citric Acid  
 96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static]

Glycolic Acid  
 96 Hr LC50 Brachydanio rerio: >5000 mg/L [static]

Diethylene glycol monobutyl ether  
 96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static]  
 48 Hr EC50 Daphnia magna: >100 mg/L  
 96 Hr EC50 Desmodemus subspicatus: >100 mg/L

Sulfuric acid  
 96 Hr LC50 Brachydanio rerio: >500 mg/L [static]

**13. DISPOSAL**

Refer to the latest federal, state, and local regulations.

**14. TRANSPORTATION INFORMATION**

The following is for US DOT Highway transportation. Other modes/jurisdictions may have different classifications.

Agency	Proper Shipping Name	UN Number	Packaging Group	Hazard Class
US DOT	Corrosive Liquid NOS (Phosphoric Acid Glycolic Acid)	UN1760	II	8

**15. REGULATORY INFORMATION**

This listing is to highlight federal level regulation of the product. Individual states, and other nations may have further regulations not listed below.

US DOT List of Marine Pollutants (172.101 - Appendix B)  
 None

US DOT List of Hazardous Substances and Reportable Quantities (172.101 Appendix A)  
 7664-38-2 Phosphoric acid 14 %  
 1341-49-7 Ammonium bifluoride 4 %  
 7664-93-9 Sulfuric acid 2 %

US DOT List of Severe Marine Pollutants (172.101 - Appendix B)  
 None

SARA Section 302 Extremely Hazardous Substances (40 CFR 355):  
 7664-93-9 Sulfuric acid 2 %

Sara Section 302 Threshold Planning Quantity.  
 7664-93-9 Sulfuric acid 2 %

SARA Section 313, Toxic Chemicals (40 CFR 372.65):  
 7664-93-9 Sulfuric acid 2 %

SARA Reportable Quantity.  
 7664-38-2 Phosphoric acid 14 %  
 1341-49-7 Ammonium bifluoride 4 %  
 7664-93-9 Sulfuric acid 2 %

Toxic Substances Control Act (TSCA):  
 All components are listed or exempt from the Toxic Substances Control Act except those listed below.  
 None

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1985 (SARA):  
 This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.  
 7664-93-9 Sulfuric acid 2.0%

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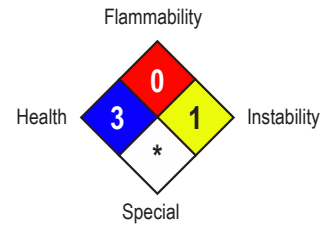
**16. OTHER INFORMATION**

Date of Preparation: July 1st, 2016  
Revision Date: March 16th, 2017

**Hazardous Material Information System (HMIS)**

Health	3
Flammability	0
Physical Hazard	1
Personal Protection	D

**National Fire Protection Association (NFPA)**



**HMIS & NFPA Hazard Rating Legend**

- \* = CHRONIC HEALTH HAZARD
- 0 = INSIGNIFICANT
- 1 = SLIGHT
- 2 = MODERATE
- 3 = HIGH

**LEGEND**

0 = LEAST    1 = SLIGHT    2 = MODERATE    3 = HIGH    4 = EXTREME

N.D. = NOT DETERMINED    N.A. = NOT AVAILABLE    N/A = NOT APPLICABLE

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