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 <= 100 ppm, Vapors <= 0.5 mg/l, Dusts & mists <= 0.05 mg/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
- **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
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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3. COMPOSITION

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

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.
8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

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

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)
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%

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.

<table>
<thead>
<tr>
<th>Agency</th>
<th>Proper Shipping Name</th>
<th>UN Number</th>
<th>Packaging Group</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT</td>
<td>Corrosive Liquid NOS (Phosphoric Acid Glycolic Acid)</td>
<td>UN1760</td>
<td>II</td>
<td>8</td>
</tr>
</tbody>
</table>

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 Desmodesmus subspicatus: >100 mg/L
- Sulfuric acid
  96 Hr LC50 Brachydanio rerio: >500 mg/L [static]

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
SAFETY DATA SHEET

16. OTHER INFORMATION

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

Hazardous Material Information System (HMIS)

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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