**222 CONCRETE BRICK & BURNISHED MASONRY CLEANSER**

1. **PRODUCT DATA**
   - **Date of Preparation:** March 1, 2015
   - **Product Name:** 222 Concrete Brick & Burnished Masonry Cleanser
   - **Producer:** Diedrich Technologies, A Hohmann & Barnard Company, 310 Wayto Road, Schenectady, NY 12303
   - **Company Contact:** Mike 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:**
   - **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

   **GHS Hazards**
   - H314 Causes severe skin burns and eye damage
   - H318 Causes serious eye damage
   - H332 Harmful if inhaled

   **GHS Precautions**
   - P260 Do not breathe dust/fume/gas/mist/vapors/spray
   - P264 Wash skin thoroughly after handling
   - P280 Wear protective gloves/protective clothing/eye protection/face protection
   - P310 Immediately call a POISON CENTER or doctor/physician
   - P321 Specific treatment (see section 4)
   - P363 Wash contaminated clothing before reuse
   - P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
   - P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
   - P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
   - P363+P364+P335 If skin contact: Wash skin with soap and water
   - P405 Store locked up
   - P501 Dispose of contents/container according to local regulation

3. **COMPOSITION**

<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 11 percent</td>
<td>1 mg/m3 TWA</td>
<td>3 mg/m3 STEL</td>
<td>NIOSH: 1 mg/m3 TWA 3 mg/m3 STEL</td>
</tr>
</tbody>
</table>

4. **FIRST AID MEASURES**

   **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: N/A  UEL: N/A
- **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 saleable 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., 40º to 95ºF (4º to 35ºC)

**Regulatory Requirements:** No data found

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION**

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</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**

- **Melting point:** Not Determined
- **Freezing point:** Not Determined
- **Solubility:** Complete
- **Boiling range:** 100°C
- **Flash point:** 999°C, 999°F
- **Evaporation rate:** Not Determined
- **Flammability:** Not Determined
- **Appearance:** Light Yellow
- **Odor:** Acetic
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 Gluconic Acid)</td>
<td>UN1789</td>
<td>II</td>
<td>8</td>
</tr>
</tbody>
</table>

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

7664-38-2 Phosphoric acid 11%

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

SARA Section 302 Extremely Hazardous Substances (40 CFR 355): None

Sara Section 302 Threshold Planning Quantity: None

SARA Section 313, Toxic Chemicals (40 CFR 372.65): None

SARA Reportable Quantity: 7664-38-2 Phosphoric acid 11%

EU RISK PHRASES
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.

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 Phosphorus
- Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION
Component Toxicity
7664-38-2 Phosphoric acid
- Oral: 1,530.00 mg/kg (Rat)
- Dermal: 2,730.00 mg/kg (Rabbit)

Routes of Entry: No data found.
Target Organs: Eyes, Skin, and Respiratory System

12. ECOLOGICAL INFORMATION
Ecotoxicity: No data available for this product.

13. DISPOSAL
Disposal Instructions: Refer to the latest federal, state, and local regulations regarding proper disposal.

Physical State: Liquid
Vapor Pressure: Not Determined
Odor threshold: Not Determined
Vapor Density: Not Determined
pH: Strong Acid <1
Explosive Limits: 0%
Partition coefficient (n-Octanol/water): Not Determined
Autoignition temperature: N/A
Decomposition temperature: Not Determined
Viscosity: Not Determined
Density: 1.108540877
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Hazardous Material Information System (HMIS)</th>
<th>National Fire Protection Association (NFPA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>Flammability</td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>Health</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>Instability</td>
</tr>
<tr>
<td></td>
<td>Special</td>
</tr>
</tbody>
</table>

HMIS & NFPA Hazard Rating Legend

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

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**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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