

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

101G GRANITE, TERRA COTTA & BRICK CLEANER

1. PRODUCT DATA

Date of Preparation: March 1, 2015
Product Name: 101G Granite, Terra Cotta & Brick Cleaner
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:
Oral Toxicity: Acute Tox. 2
Inhalation Toxicity: Acute Tox. 2
Skin corrosive: 1A
Eye corrosive: 1 Serious

GHS Hazards:

- H300** Fatal if swallowed
- H314** Causes severe skin burns and eye damage
- H330** Fatal if inhaled

GHS Precautions

- P260** Do not breathe dust/fume/gas/mist/vapors/spray
- P264** Wash skin thoroughly after handling
- P270** Do not eat, drink or smoke when using this product
- P271** Use only outdoors or in a well-ventilated area
- P280** Wear protective gloves/protective clothing/eye protection/face protection
- P284** 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)
- P330** Rinse mouth
- P363** Wash contaminated clothing before reuse
- P301+P310**
IF SWALLOWED: Immediately 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

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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P405

Store locked up

P403+P233

Store in a well-ventilated place. Keep container tightly closed

P501

Dispose of contents/container according to local regulations

Danger



3. COMPOSITION

Chemical Name/ CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Hydrofluoric Acid 7664-39-3	3 ppm TWA	3 ppm Ceiling	NIOSH: 6 ppm Ceiling 5 mg/m3 Ceiling
Orthophosphoric Acid 7664-38-2	1 mg/m3 TWA	1 mg/m3 TWA 3 mg/m3 STEL	NIOSH: 1 mg/m3 TWA 3 mg/m3 STEL

Specific chemical identity and percentage content of ingredients withheld as trade secret pursuant to Massachusetts regulations. Reporting requirements of section 313 title III of the superfund amendments and reauthorization act of 1986 and 10 CFR part 373 apply.

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4. FIRST AID MEASURES

Eye Contact: Flush eyes immediately with plenty of water for a minimum of 30 minutes. Lift both upper and lower eyelids periodically. Seek immediate medical attention. *NOTE:* Zephtrin Chloride Solution MUST NOT be used on the eyes.

Skin Contact: Flush immediately with cold water for minimum of 15 minutes and remove contaminated clothing.

FOR MINOR BURNS - Apply magnesia paste (magnesium oxide and glycerine) or aloe to burn area on skin.

EMERGENCY ROOM TREATMENT - Soak exposed area or apply saturated compresses with a solution of Zephtrin Chloride (1:750) or apply a 70% iced solution of Isopropyl Alcohol. If hands are contaminated particular attention must be paid to skin under fingernails. If immersion of contaminated area is not possible, saturated compresses can be substituted. Compresses should be changed every two minutes. Calcium chloride solution can be injected at affected area to neutralize hydrofluoric acid and reduce swelling. Get medical attention in the event of contact or suspicion of contact.

Inhalation: Remove to fresh air immediately. If breathing is difficult, give oxygen. If not breathing give artificial respiration. **Do not use mouth to mouth.**

Ingestion: DO NOT INDUCE VOMITING! Immediately give large quantities of water. Give one ounce of magnesia or alumina gel in equal amount of water immediately. Never give an unconscious person anything by mouth. Contact physician immediately.

Notes to Physician: No data found.

5. FIRE FIGHTING MEASURES

Flammable Limits: LEL: N/A UEL: N/A

Flash Point: Non-Flammable

Extinguishing Media: Dry chemical or carbon dioxide.

Unusual Fire or Explosion Hazards: Possible formation of hydrogen gas caused by contact with metals, which can be explosive when mixed with air.

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

Special Procedures: Hydrogen chloride gas may be released from vented or ruptured containers. Heat is generated when water is added with the possibility of spattering. Use water to keep containers exposed to fire cool until fire is extinguished. Water and foam may cause a violent reaction if sprayed on melting, burning containers,

endangering fire fighters. Full protective equipment and SCBA is recommended.

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: Soak, wipe up and dispose of in approved waste containers.

LARGE SPILLS: Dike with absorbent material. Prevent un-neutralized material from entering drains, sewers, waterways or soil. Applicable government regulations regarding spill reporting handling and waste disposal must be complied with.

ACID SPILLS: Neutralize with alkali, Soda Ash, lime or limestone. Adequate ventilation required if soda ash or limestone is used due to release of carbon dioxide gas.

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.

Storage: Freezes at about 32°F, and keep containers below 120°F. Do not store in metal container. Do not handle container without personal protection. Add cautiously to cool water to dilute (heat is evolved). Avoid open containers. Store away from incompatible material. Do not store in or pipe through anything metallic, use only polylined steel or approved plastic. Keep containers tightly sealed. Do not cut, puncture, or weld on or near containers. Do not re-use container for any purpose until it has been commercially cleaned. Keep container closed when not in use.

Regulatory Requirements: No data found

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8. EXPOSURE CONTROL AND PERSONAL PROTECTION

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Orthophosphoric Acid 7664-38-2	1 mg/m ³ TWA	1 mg/m ³ TWA 3 mg/m ³ STEL	NIOSH: 1 mg/m ³ TWA 3 mg/m ³ STEL

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: Local Exhaust - Sufficient to maintain exposure to levels below permissible exposure limits. If mechanical exhaust is required it should be of the steel or plastic fan type.

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: Close fitting safety chemical goggles and full-face shield.

Skin Protection: Apply Diedrich recommended skin barrier cream for additional protection.

Respiratory: Use a NIOSH/MSHA approved dust/mist filter respirator for routine work purposes when exposure to mists exceed the permissible exposure limits. The respirator use limitations made by NIOSH/MSHA or the manufacturer must be observed.

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: 32°F (0°C)

Solubility: Complete

Boiling range: est 210°F (98°C)

Flash point: Non-Flammable

Evaporation rate (Ether=1): 1.02

Flammability: Not Determined

Appearance: Clear liquid

Odor: Sharp acid smell

Physical State: Liquid

Vapor Pressure: 52 mmHg @ 32°F (0°C)

Specific Gravity: 1.09

Odor threshold: Not Determined

Vapor Density: 1.0 @ 105°F (40°C)

pH: Strong Acid <1

Explosive Limits: No data found

Partition coefficient (n-Octanol/water): Not Determined

Autoignition temperature: N/A

Decomposition Temperature: Not Determined

Viscosity: Not Determined

Density: No data found

% Volatile (by weight): 98.3%

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:

- Hydrogen Chloride
- Chlorine or Oxides of Chlorine
- Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity: No data found

Routes of entry: Inhalation, Ingestion, Skin, Eyes

Target Organs: Eyes, Skin, and Respiratory System

Effects of Overexposure: Liquid and vapor can cause severe burns to eyes, skin, respiratory and gastrointestinal tracks and can cause pulmonary edema. Burns may not be painful or visible immediately and symptoms may last eight or more hours.

CAS Number	Description	% Weight	Carcinogen Rating
None			No Data Found

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.

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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, Toxic, NOS (Hydrochloric & Hydrofluoric Acid)	UN2922	II	8(6.1)

15 - REGULATORY INFORMATION

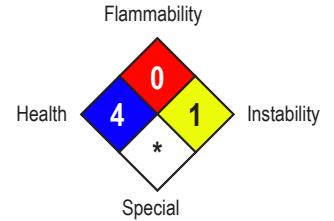
No data found

16. OTHER INFORMATION

Hazardous Material Information System (HMIS)

Health	3
Flammability	0
Physical Hazard	0
Personal Protection	<input type="checkbox"/>

National Fire Protection Association (NFPA)



HMIS & NFPA Hazard Rating Legend

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

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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