

980 GROUT & TILE CLEANER**SECTION I - PRODUCT IDENTIFICATION**

MANUFACTURER'S NAME AND ADDRESS: DIEDRICH TECHNOLOGIES INC.
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PRODUCT NAME: 980 GROUT & TILE CLEANER **01-08**

SECTION II - HAZARDOUS INGREDIENTS

NOTE: Hazardous acidic ingredients in this product are in a water diluted form; not in the pure concentrated acidic form.

CHEMICAL NAME	CAS NO.	NFPA CODE	TLV	PEL
PHOSPHORIC ACID	766-38-2	2-0-0-A	1mg/m3	1mg/m3

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.

SECTION III - PHYSICAL DATA

BOILING POINT (°F): >100°C
VAPOR PRESSURE (mmHg): Approx. 17mm Hg
VAPOR DENSITY (Air=1): N.D.
SOLUBILITY IN WATER: COMPLETE
VOLATILE ORGANIC COMPONENTS: N/A

SPECIFIC GRAVITY (H₂O=1): 1.15
% VOLATILE (by weight): N.D.
EVAPORATION RATE (Ether=1): N.D.
APPEARANCE AND ODOR: Clear Liquid with faint organic odor.
pH: 1

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N.A. **FLAMMABLE LIMITS:** LEL & UEL Not determined
EXTINGUISHING MEDIA: Water, dry chemical, CO₂ for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Use full-face, self-contained breathing apparatus and impervious protective clothing. Prevent any skin contact.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Water added to the acid may cause generation of heat and or fumes. Under extreme fire conditions may give off oxides of carbon and phosphorous.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Inhalation, skin, eyes, ingestion.
CARCINOGENIC INFORMATION: Not listed (OSHA, IARC, NTP).
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:
ACUTE: Corrosive to all human tissue. Can cause severe burns to skin and eyes resulting in blindness.



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CHRONIC: May lead to contact dermatitis, lung damage resulting in bronchitis, shortness of breath and emphysema

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Flush eyes with lids open for at least 15 minutes. Get medical attention immediately.

SKIN CONTACT: Flush effected area with copious amounts of water, remove contaminated shoes and clothing. Consult a physician.

INHALATION: Remove victim to fresh air. If unconscious give artificial respiration. Immediately consult a physician.

INGESTION: If conscious, give 2 to 3 glasses of water. Do not induce vomiting. Consult a physician.

SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Extreme heat

IN COMPATIBILITY (Materials to Avoid): Alkalis, metals, organic materials, carbides and chlorates.

HAZARDOUS/THERMAL DECOMPOSITION PRODUCTS: Extreme heat can cause the evolution of vapors and oxides of carbon and phosphorous.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURES

SPILL, LEAK AND WASTE DISPOSAL PROCEDURES:

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

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

WASTE DISPOSAL METHODS: Contaminated product and materials used in cleanup must be placed in approved containers and disposed of in accordance with federal, state and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

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

VENTILATION: 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.

PROTECTIVE CLOTHING: Protect all body parts from contact by using full acid resistant suit with tight fitting cuffs and collar, rubber boots and head protection.

PROTECTIVE GLOVES: Neoprene - butyl rubber - PVC - polyethylene.



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EYE PROTECTION: Close fitting safety chemical goggles and full face shield.

OTHER PROTECTIVE EQUIPMENT:

Apply Diedrich recommended skin barrier cream for additional protection. Acid resistant boots and hardhat. Safety shower and eyewash or fresh running water close at hand.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND 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.

OTHER PRECAUTIONS:

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 this container. Do not re-use container for any purpose until it has been commercially cleaned. Keep container closed when not in use.

LEGENDS:

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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