

**960 HEAVY DUTY CONCRETE CLEANER****SECTION I - PRODUCT IDENTIFICATION**

**MANUFACTURER'S NAME AND ADDRESS:** DIEDRICH TECHNOLOGIES INC.  
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**PRODUCT NAME:** 960 HEAVY DUTY CONCRETE 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. This product contains less than 20% Hydrochloric Acid (HCL) reduced of a 45% by more then 70% water and buffered by a surfactant wetting agent.**

CHEMICAL NAME	CAS NO.	NFPA CODE	TLV	PEL
Hydrochloric Acid	7647-01-1	3/0/0/-	5 ppm	5 ppm

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**

<b>BOILING POINT (°F)</b>	212°F	<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	1.109
<b>VAPOR PRESSURE (mmHg):</b>	25	<b>% VOLATILE (by weight):</b>	35%
<b>VAPOR DENSITY (Air=1):</b>	1.64	<b>EVAPORATION RATE (Ether=1):</b>	-1
<b>SOLUBILITY IN WATER:</b>	Complete	<b>APPEARANCE AND ODOR:</b>	Clear to light amber liquid, sharp acid smell.
<b>VOLATILE ORGANIC COMPONENTS:</b>	N/A	<b>pH = 1</b>	

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** Non-flammable **FLAMMABLE LIMITS:** LEL = N/A UEL = N/A

**EXTINGUISHING MEDIA:** Dry chemical or carbon dioxide.

**SPECIAL FIRE FIGHTING 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

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Possible formation of hydrogen gas caused by contact with metals which can when mixed with air be explosive.

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**SECTION V - HEALTH HAZARD DATA**

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**PRIMARY ROUTES OF EXPOSURE:** Inhalation, skin, eyes, ingestion.

**CARCINOGENIC INFORMATION:** Not listed (OSHA, IARC, NTP).

**MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** No applicable information found.

**EFFECTS OF OVEREXPOSURE:**

Chronic nose, throat or sinus conditions. Lung conditions such as asthma, bronchitis, emphysema, etc. Prolong high exposure can cause weight loss corresponding to exposure levels. Erosion of the teeth has been associated with long term overexposure.

**CHRONIC EFFECTS:**

Liquid, vapors and mists can cause severe burns to eyes, skin, respiratory and gastrointestinal tracks. Contact to the eye can quickly lead to blindness. Skin contact will result in burns and deep skin ulcers. Swallowing will cause severe burns to mucous membranes and deep tissue, and possible death if vital areas are penetrated.

**EYE CONTACT:**

Product's vapor, liquid and mists are extremely corrosive to the eyes. Minor or brief contact with vapors will cause severe irritation. Brief contact with liquid or mist will cause severe damage to the eyes. Prolonged contact can cause permanent injury to the eye and even blindness.

**SKIN CONTACT:**

Product's vapor, liquid and mists are extremely corrosive to skin. Contact with vapors will cause severe irritation to the skin. Contact with liquid and mists will cause severe burns to the skin. Prolonged contact with liquid will cause burns and destroy surrounding tissue. Burns that extend over large percentage of the body can result in death.

**INHALATION:**

Product's vapor, liquid and mist are extremely corrosive to nose, throat, and mucous membranes.. Bronchitis, pulmonary edema, and chemical pneumonitis may result. Brief exposure may result in difficulty breathing, irritation, coughing and chest pains. Severe irritation and tissue damage can result from extended periods of exposure. Death can occur from breathing high concentrations.

**INGESTION:**

Product's vapor, mist and liquid are extremely corrosive to mouth and throat. If swallowed the liquid will cause burns to tissue and extreme abdominal pain, nausea, vomiting and collapse. If large quantities are swallowed, death can result.

**EMERGENCY AND FIRST AID PROCEDURES:**

**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.

**SKIN CONTACT:** Flush immediately with cold water for minimum of 15 minutes and remove contaminated clothing. If hands are contaminated, particular attention must be paid to skin under fingernails. Launder contaminated clothing before reuse. Discard contaminated shoes. Seek immediate medical attention.

**INHALATION:** Remove to fresh air immediately. If breathing difficulty is experienced give oxygen. If not breathing give artificial respiration, preferably mouth-to-mouth. Seek medical attention immediately.

**INGESTION:** DO NOT INDUCE VOMITING. Immediately give large quantities of water or milk. Seek immediate medical attention. Never give an unconscious person anything by mouth.



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Revised 08.19.08

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**SECTION VI - REACTIVITY DATA**

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**STABILITY:** Stable

**CONDITIONS TO AVOID:** Contact with highly alkaline materials can cause a violent reaction which can generate large amounts of heat.

**HAZARDOUS/THERMAL DECOMPOSITION PRODUCTS:** Contact with metals can cause evolution of explosive hydrogen gas. Hydrogen chloride, carbon monoxide and carbon dioxide. Poisonous, flammable hydrogen sulfide can be generated from contact with sulfides.

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**SECTION VII - SPILL OR LEAK PROCEDURES**

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**SPILL, LEAK AND WASTE DISPOSAL PROCEDURES:**

Immediately evacuate area where concentrated fumes are found. Allow only cleanup personnel wearing the appropriate protective equipment and clothing into the areas. Dike with absorbent material and carefully neutralize with alkali, soda ash, lime or limestone. Adequate ventilation must be provided due to release of carbon dioxide gas. 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.

**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.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

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**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.

**EYE PROTECTION:**

Close fitting safety chemical goggles and full face shield.

**OTHER PROTECTIVE EQUIPMENT:**

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



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**SECTION IX - SPECIAL PRECAUTIONS**

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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Keep away from heat, sparks, and open flames. Use with adequate ventilation. Store away from oxidizing materials. Avoid prolonged or repeated contact with skin. After this container has been emptied it may contain explosive and/or harmful vapors and residue.

**OTHER PRECAUTIONS:**

Do not store in or pipe through anything metallic, use only poly-lined 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.

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**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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