

**300 CONCENTRATE SILOXANE WATER REPELLENT****SECTION I - PRODUCT IDENTIFICATION**

**MANUFACTURER'S NAME AND ADDRESS:** DIEDRICH TECHNOLOGIES INC.  
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**PRODUCT NAME:** DIEDRICH 300 CONCENTRATE SILOXANE WATER REPELLENT **01-08**

**SECTION II - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS NO.	NFPA CODE	TLV	PEL
Siloxanes and Silanes*	N.A.	N.A.	N.E.	N.E.
Silicates*	78-10-4	2/2/0	10 ppm	10 ppm
Organic Acid*	N.A.	2/2/1	10 ppm	10 ppm

Methanol and Ethanol released upon hydrolysis.

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):** Not determined      **SPECIFIC GRAVITY (H<sub>2</sub>O=1):** Approximately 0.9 - 1.0  
**VAPOR PRESSURE (mmHg):** Not determined      **% VOLATILE (by weight):** Approximately 30 (EPA 24)  
**VAPOR DENSITY (Air=1):** Not determined      **EVAPORATION RATE (Ether=1):** Not determined  
**SOLUBILITY IN WATER:** 100%      **APPEARANCE AND ODOR:** Clear yellowish colored liquid with an acetic acid odor.

**VOLATILE ORGANIC COMPONENTS:** 318 g/l (@ 100%)      **pH:** Neutral

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

**FLASH POINT:** 77°F (Abel Pensky)      **FLAMMABLE LIMITS:** LEL & UEL Not determined  
**EXTINGUISHING MEDIA:** Use carbon dioxide, dry chemical or foam type extinguishing media.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Use full-face, self-contained breathing apparatus and impervious protective clothing. Use the procedures for fighting petroleum solvent fire.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Because concentrate vapors are heavier than air they may travel along the ground or by ventilation systems far away from material handling point. This product can generate formaldehyde vapors when exposed to temperatures exceeding 302 degrees F (150 degrees C) in the presence of air. Formaldehyde is a potential cancer hazard, causes irritation and sensitization of the skin and respiratory system, causes eye and throat irritation, and is acutely toxic. Never weld or use cutting torch on or near containers (even empty) because product (even just residue) can ignite explosively.

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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 to be found.

**EFFECTS OF OVEREXPOSURE:** This material releases ethyl alcohol upon hydrolysis. Overexposure has been shown to cause respiratory and central nervous system depression. Signs and symptoms of overexposure include headache, blurred vision, constricted visual fields, shortness of breath, dizziness and vertigo.

**EYE CONTACT:** Causes severe irritation.

**SKIN CONTACT:** Contact with skin can cause irritation.

**INHALATION:** Exposure to high concentrations or prolonged lower concentrations may be irritating to mucous membranes.

**INGESTION:** This material releases methyl alcohol upon hydrolysis, ingestion of methyl alcohol may lead to blindness or death.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYE CONTACT:** In case of contact, immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

**SKIN CONTACT:** Remove excess material from skin with a waterless skin cleaner. Flush skin with plenty of water and wash well with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse.

**INHALATION:** If inhaled, remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

**INGESTION:** Never give an unconscious person anything to drink. If unconscious, treat for shock. Notify physician or the nearest poison control center immediately. If conscious, have the person rinse his mouth with cold water. If conscious, induce vomiting by using a finger or other object such as a spoon to tickle the back of the throat. If unconscious and vomiting, turn the person on his side to avoid choking.

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**SECTION VI - REACTIVITY DATA**

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**STABILITY:** Stable at ambient temperatures and atmospheric pressure.

**CONDITIONS TO AVOID:** Avoid contact with strong oxidizing agents, water, acids, alkalies, metals, strong bases, amines. Hydrolyses slowly at ambient temperatures, when exposed to moist air, to form methanol and ethanol. Keep container closed to prevent exposure to moisture.

**HAZARDOUS/THERMAL DECOMPOSITION PRODUCTS:** SiO<sub>2</sub>, CO, CO<sub>2</sub>, formaldehyde, and various hydrocarbon fragments.

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**SECTION VII - SPILL OR LEAK PROCEDURES**

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

**LARGE SPILLS:** Avoid exposure to sparks, fire or hot metal surfaces. Eliminate possible sources of ignition. If applicable wear appropriate respirator and other protective clothing. Stop source of leak if safe to do so. Dike and contain spill/leak. Soak up residue with absorbent, noncombustible material or sand. Scoop into drum appropriate for disposal. Prevent material from entering drains, sewers and waterways.

**SMALL SPILLS:** Dike and contain. Soak up residue with absorbent noncombustible material. Scoop into drums appropriate for disposal.

**WASTE DISPOSAL METHODS:** Disposal must be at an approved facility for compliance under RCRA Regulations for hazardous waste. Containers must have the proper labeling and be leak proof.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

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**RESPIRATORY PROTECTION:**

A NIOSH/MSHA approved air supplied or air-purifying respirator must be used if the TLV of the product or component is exceeded. Under specific conditions other NIOSH/MSHA respirators may be permitted under OSHA regulations. Consult with your safety equipment supplier.

**VENTILATION:**

Local exhaust sufficient to minimize exposure to mist and fumes below permissible exposure limits. If mechanical assist ventilation is required, unit must be of an explosion proof type.

**PROTECTIVE CLOTHING:**

Protect all body parts from contact by using full chemical/solvent resistant suit with tight fitting cuffs and collar, rubber boots and full face shield.

**PROTECTIVE GLOVES:**

Solvent resistant gloves such as nitrile rubber must be worn.

**EYE PROTECTION:**

Close fitting safety chemical goggles and face shield must be worn.

**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.



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**OTHER PRECAUTIONS:**

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.

This product is classified as an "oil" under the Clean Water Act. As such it must be kept out of surface water, watercourses or sewers entering or leading to surface water.

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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

While this company believes that the data contained herein are factual and the opinions expressed are based on tests and data believed to be reliable, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by this company as to the effects of such use, the results to be obtained, or the safety and toxicity of the product, nor does this company assume any liability arising out of use, by others, of the product referred to herein. Nor is this information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or governmental regulations.

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