DIEDRICH TECHNOLOGIES, INC.

SAFETY DATA SHEET

150 Motor Parkway | Suite 410 | Hauppauge, NY 11788 • TEL: 800-283-3888
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300-C WATER-BASED SILOXANE

1. PRODUCT DATA

Product Name: 300-C Water-Based Siloxane Concentrated Water Repellent
Producer: Diedrich Technologies, A Hohmann & Barnard Company, 150 Motor Parkway, Suite 410, Hauppague, NY 11788
Company Contact: Jonathon Byrge
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

Product not classified as a hazardous chemical as defined in OSHA 1910.1200 Appendix A.

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.

Hazards Not Otherwise Classified: No data found.

3. COMPOSITION

Chemical Name	CAS No.	Content [%wt]	
		Lower	Upper
Alkylalkoxy Siloxane	104780-78-1	5	10
Octyl Triethoxy Silane	35435-21-3	20	40
Alpha Iso Tridecyl Omega Hydroxy Polyglycolether	9043-30-5	1	2

Substances listed in Subsections “HAPS” and “California Proposition 65 Carcinogens / Reproductive Toxins” that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

4. FIRST AID MEASURES

General: Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take this document with you for reference.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

Skin: Immediately wipe away excess material. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes.

Ingestion: Do not induce vomiting. If conscious, rinse mouth with water but do not give anything to drink. Danger of aspiration. Get medical attention. Show label if possible.

5. FIRE FIGHTING MEASURES

Flash Point (ASTM D56): >199ºF (>93ºC).
Flash Point (ASTM D3278, DIN 55680, ISO 36799): >107°F (>42°C).
Sustained combustibility (ASTM D4206): >167°F (>75°C).
Boiling point/range: >212°F (>100°C).
Flammability (UEL & LEL): Not determined.
Ignition Temperature: Not determined.
NFPA Hazard Class (combustible/flammable liquid): IIIA.

Fire and explosion hazards: Under normal conditions this product is not combustible. However, during storage gradual hydrolysis can occur under rare circumstances releasing flammable by-products which can cause a lowering of the flash point. Material may flash, but will not sustain combustion. Keep away from heat, sparks, and flame.

Explosion limits for hydrolysis product: 3.5-15% v/v (ethanol) 5.5-44% v/v (methanol). As a result of hydrolysis flammable vapors may accumulate in the container head space. Consider possible formation of explosive mixtures with air, for example in uncleaned containers. Ignitable vapors may be released during processing or curing.

Recommended extinguishing media: Fine spray or fog of water, dry chemical, carbon dioxide. Water may be used to cool tanks and structures adjacent to the fire.

Unsuitable extinguishing media: None.

Hazardous decomposition products: Various hydrocarbon fragments, carbon dioxide, formaldehyde, carbon monoxide, silicon dioxide nitrogen oxides.

Fire fighting procedures: Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Precautions: Obtain appropriate PPE, supplies, and equipment prior to attempting any response. If material is released indicate risk of slipping.

HAZWOPER PPE Level: D.

Containment: If safe to do, stop the leak at its source. Cover openings to underground drains and sewers. Use loose absorbent material or prefabricated socks to dike round small quantities of spilled material (incidental spills). Prevent material from entering surface waters, drains or sewers and soil.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Centers toll free phone number (800) 424-8802.

Methods for cleaning up: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Use absorbent materials to pick up residual liquids. After removing as much material as possible, flush the spill area with water.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep container closed when not in use. Use with adequate ventilation.

Precautions against fire and explosion: Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

Storage: Observe local/state/federal regulations. Do not store together with fire-promoting and spontaneously inflammable substances or with highly inflammable solids. Store in a dry sheltered place in original container. Prevent from freezing, store at temperatures between 32ºF-122ºF (0ºC-50ºC).

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

CAS No.	Chemical Name	Osha PEL	Osha STEL
64-17-5	Ethanol	1,900 mg/m^3 1,000 ppm	ACGIH Carcinogenicity: A3 1,000 ppm

Engineering Controls: Provide eye bath and safety shower.

Monitoring: Avoid breathing vapors, mist, aerosol. Avoid contact with eyes, skin, and clothing. Do not eat or drink when handling. Wash hands thoroughly after handling.

Ventilation control: Use with adequate ventilation.

Local exhaust: No special ventilation required. If spraying or other aerosol generating operations are performed, local exhaust designed to capture mists and sprays, such as a paint spray booth, is recommended.

Respiratory protection: Not normally required. If spraying or other aerosol generating operations are performed, respiratory protection for exposed personnel is recommended. A NIOSH approved air purifying respirator equipped with universal multi-contaminant, multi-gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if overexposure to dusts, mists, or vapors could occur.

Hand protection: Any liquid-tight rubber or vinyl gloves.

Eye protection: Safety glasses with side shields or chemical safety goggles.

Skin Protection: Long pants and long sleeve shirts.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: White
Odor: Slight
Melting Point: Not applicable
Boiling Point: 212°F (100°C)
Flash Point (ASTM D56): >199ºF (>93ºC).
Flash Point (ASTM D3278, DIN 55680, ISO 36799): >107°F (>42°C).
Sustained combustibility (ASTM D4206): >167°F (>75°C).
Flammable Limits (UEL & LEL): Not Determined
Ignition Temperature: Not Determined
Vapor Pressure: Not Determined
Density: 0.95g/cm^3
Water Solubility: Complete
pH: 8
Viscosity (dynamic): 36mPa.s
Weight Per Gallon: 8 lbs.

10. STABILITY AND REACTIVITY

Stability: Stable under normal use conditions.
Incompatibilities: Strong acids. Bases (alkali or caustic materials). oxidizing materials (oxygen, oxidizers, peroxides, etc.)

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Conditions To Avoid: Keep away from incompatible substances. Although this product is not expected to react with commonly used materials of construction and process equipment, it is advised that any rubber or plastic items such as hoses and gaskets be tested prior to large scale processing to ensure there is no degradation of performance or durability.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Assessment: Inhalable aerosols containing aminofunctional polysiloxanes may cause harmful effects in the lung in animal experiments. Due to the large number of influencing parameters (e.g. amine function, degree of substitution, viscosity, composition) an estimation of the toxicological effect on the lung is not possible for untested products of this category. In such cases exposure to inhalable aerosols must be prevented by adequate technical measures.

Acute toxicity estimate (ATE): ATE mix (oral): >5000mg/kg
Skin Contact: No data found.
Eyes: Not irritating.
Respiratory: No data found.
Germ cell mutagenicity: No data found.
Carcinogenicity: No data found.
Reproductive: No data found.
Specific Target Organs: No data found.
Aspiration Hazard: No data found.
Further Information: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Other information: according to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, degreases the skin, is narcotic and may cause liver damage.

12. ECOLOGICAL INFORMATION

Toxicity: No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

Persistence and degradability: The hydrolysis product (Ethanol) is readily biologically degradable. Silicone content: biologically not degradable. Elimination by absorption to activated sludge.

Bioaccumulative potential: Not expected.

Mobility in soil: Not expected.

13. DISPOSAL

Material designated for disposal should be segregated from any substances or materials specified in sect. 10 “Stability and reactivity”. Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations. State and local regulations may be more stringent than Federal regulations. Containers may be cleaned and recycled, but should not be reused to prevent incompatibilities with other materials.

14. TRANSPORTATION INFORMATION

Not regulated by US DOT Highway transportation. Other modes/jurisdictions may have different classifications.

15. REGULATORY INFORMATION

TSCA Status: The components of this product are listed on the TSCA Inventory.
CERCLA Section 102(a) Hazardous Substance: None
SARA 302 EHS Chemicals: None.
SARA 311/312 Hazard Class: None
SARA 313 Chemicals: None.
HAPS (Hazardous Air Pollutants):
67-56-1 Methanol <=0.0044

U.S. State Regulations

California Proposition 65 Carcinogens:
Does not contain any chemicals known to the State of California to cause cancer.

California Proposition 65 Reproductive Toxins:
67-56-1 Methanol

Massachusetts Substance List: None

New Jersey Right-to-Know Hazardous Substance List: None

Pennsylvania Right-to-Know Hazardous Substance List: None

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Canadian Regulations
This product has been classified in accordance with the Hazard criteria of the CPR and the SDS contains all the information required by the CPR.

WHMIS Hazard Classes: B3
DSL Status: This material or its components are listed.
Non-DSL Chemicals: None.

16. OTHER INFORMATION

Date of Preparation: July 1st, 2016
Revision Date: June 16th, 2023

LEGEND

0 = LEAST **1 =** SLIGHT **2 =** MODERATE **3 =** HIGH **4 =** EXTREME

N.D. = NOT DETERMINED **N.A. =** NOT AVAILABLE **N/A =** NOT APPLICABLE

DISCLAIMER: 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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