DIPHENYLDICHLOROSILANE

,	CAUTION	ARY RESPO	ONSE INFORMA	TION		4. FIRE HAZARDS
Common Syno Dichlorodiphenylsilan Dichlorodiphenylsilica	nyms e ine	Liquid	Colorless	Sharp, irritating odor	4.1 4.2	Flash Point: 288°F O.C. Flammable Limits in Air: Currently not available
Diphenylsilicon dichlo Keep peopl Avoid inhala Wear gogg overclothin Call fire dej	ride e away. ation les, self-contair g (including glov partment.	Reacts with water ned breathing appar ves).	. Irritating vapor is produc	ed.	4.3	Fire Extinguishing Agents: Diy chemical, carbon dioxide Fire Extinguishing Agents Not to Be Used: Water and foam Special Hazards of Combustion Products: Hydrochloric acid and phosgene fumes may be formed. Babayior In Eire: Differuit to avringuish:
Notify local Protect wat	health and polle er intakes.	ution control agenc	ies.		4.0	re-ignition may occur. Contact with water or foam applied to adjacent fires will produce irritating hydrogen chloride
Fire	POISONOUS Extinguish wi DO NOT USE	GASES MAY BE F th dry chemicals or WATER OR FOAI	PRODUCED IN FIRE. carbon dioxide. M ON FIRE.		4.7	fumes. Auto Ignition Temperature: Currently not available Electrical Hazards: Currently not
Exposure	Call for medic VAPOR Irritating to ey Move victim t If breathing is	cal aid. yes, nose and throa to fresh air. s difficult, give oxyg	at. en.		4.9 4.1 4.1	available Burning Rate: 2.7 mm/min. 0 Adiabatic Flame Temperature: Currently not available 1 Stoichometric Air to Fuel Ratio: 71.4
	LIQUID Will burn skin Harmful if swi Remove cont Flush affecte IF IN EYES, I IF SWALLOV or milk.	and eyes. allowed. taminated clothing a d areas with plenty hold eyelids open a NED and victim is (and shoes. of water. nd flush with plenty of wat CONSCIOUS, have victim	er. drink water	4.1 4.1 4.1	(caic.) 2 Flame Temperature: Currently not available 3 Combustion Molar Ratio (Reactant to Product): 19.0 (caic.) 4 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 5 CHEMICAL REACTIVITY
Water Pollution	Effect of low May be dang Notify local h Notify operate	concentrations on a erous if it enters wa ealth and wildlife of ors of nearby water	aquatic life is unknown. ater intakes. ficials. r intakes.		5.1	Reactivity with Water: Reacts with water to generate hydrogen chloride (hydrochloric acid). Reactivity with Common Materials: Reacts with surface moisture to generate hydrogen chloride, which is corrosive to
1. CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge Chemical and Physical Treatment: Neutralize Do not burn			2. CHEMICAL 2.1 CG Compatibili 2.2 Formula: (CeHe) 2.3 IMO/UN Design: 2.4 DOT ID No: 17 2.5 CAS Registry N 2.6 NAERG Guide N 2.7 Standard Indus	DESIGNATIONS y Group: Not listed. SiCle ttion: 8/1769 9 o.: 80-10-4 lo: 156 trial Trade Classification:	5.3 5.4 5.5 5.6	common metals. Stability During Transport: Stable Neutralizing Agents for Acids and Caustics: Flood with water, rinse with sodium bicarbonate or lime solution. Polymerization: Not pertinent Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION
 Personal Prote worker's go Symptoms Foll severe bur Treatment of E physician if SKIN: flust water, if vio TLV-TWA: Not TLV-STEL: Not Tu-Vceiling: Nk Toxicity by Ing Toxicity of Ing Toxicity of Solid contact and U day of Threshol BUH Value: Nc SI4 OSHA PEL-TV SOSHA PEL-Cei TO SHA PEL-Cei TPA AEGL: Nc 	ctive Equipme ggles: other pro owing Exposu is of eyes and i xposure: INH/ needed. EYES listed. isted. estion: Grade 3 alation: Current trations unplea I Characteristi i svery injurio. di Currently no t listed. X-: Not listed. X-: Not listed. LL: Not listed. t listed	3. HEALTH I ant: Acid-vapor-typ tective equipment ure: Inhalation irrita skin. Ingestion cau UATION: remove 9 S: flush with water is; give milk, or milk 3; LDso = 50 to 500 thy not available assant. The effect is cs: Severe skin zyors ca assant. The effect is cs: Severe skin eyes. thavailable	HAZARDS respiratory protection; rr as necessary to protect is tes mucous membranes, ses severe burns of mouth victim from exposure; sup- for 15 min.; obtain medica on for acid burns. INGES of magnesia; call physicia 0 mg/kg use moderate irritation su- temporary. tant. Causes second-and	abber gloves; chemical kin and eyes. Contact with liquid causes and stomach. iorir respiration; call l attention immediately. ITON: give large amounts of in.	6.2 6.3 6.4 6.5	Currently not available Waterfowl Toxicity: Currently not available Biological Oxygen Demand (BOD): Currently not available Food Chain Concentration Potential: None GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 1 Human Oral hazard: 1 Human Contact hazard: 1 Reduction of amenities: XX N

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: 96+%
- 7.2 Storage Temperature: Ambient
- 7.3 Inert Atmosphere: No requirement
- 7.4 Venting: Pressure-vacuum
- 7.5 IMO Pollution Category: Currently not available
- 7.6 Ship Type: Currently not available
- 7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

- 8.1 49 CFR Category: Corrosive material
- 8.2 49 CFR Class: 8
- 8.3 49 CFR Package Group: II
- 8.4 Marine Pollutant: No
- 8.5 NFPA Hazard Classification:

Flammability (Red)..... 1

- Instability (Yellow)..... 0
- 8.6 EPA Reportable Quantity: Not listed.
- 8.7 EPA Pollution Category: Not listed.
- 8.8 RCRA Waste Number: Not listed

8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 Physical State at 15° C and 1 atm: Liquid
- 9.2 Molecular Weight: 253
- **9.3 Boiling Point at 1 atm:** 579°F = 304°C = 577°K
- 9.4 Freezing Point: Not pertinent
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: 1.22 at 25°C (liquid)
- 9.8 Liquid Surface Tension: (est.) 26 dynes/cm = 0.026 N/m at 20°C
- 9.9 Liquid Water Interfacial Tension: Not pertinent
- 9.10 Vapor (Gas) Specific Gravity: Not pertinent
- 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
- 9.12 Latent Heat of Vaporization: 106 Btu/lb = 59 cal/g 2.5 X 10⁵ J/kg
- **9.13 Heat of Combustion:** (est.) -11,000 Btu/lb = -6,200 cal/g = -260 X 10⁵ J/kg
- 9.14 Heat of Decomposition: Not pertinent
- 9.15 Heat of Solution: Currently not available
- 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not available
- 9.18 Limiting Value: Currently not available
- 9.19 Reid Vapor Pressure: Currently not available

NOTES

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86	76.709 76.639 76.570 76.500 76.429 76.360 76.219 76.150 76.089 76.020 75.950 75.950 75.809 75.580 75.580 75.589 75.589 75.530	52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 80 82 84 86	0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400	52 54 56 58 60 62 64 66 68 70 72 74 76 74 76 78 80 82 84 86 88	0.783 0.783	52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86	8.773 8.305 7.865 7.452 7.064 6.699 6.355 6.031 5.726 5.438 5.167 4.911 4.670 4.422 4.227 4.024 3.832 3.650

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
	R E A C T S	400 410 420 430 440 450 460 470 480 490 510 510 510 520 530 530 540 550 560 570	1.014 1.211 1.441 1.709 2.018 2.375 2.785 3.254 3.790 4.399 5.092 5.875 6.759 7.754 8.871 10.120 11.520 13.080	400 410 420 430 440 460 460 470 480 490 510 510 510 530 530 540 550 560 570	0.02779 0.03282 0.03862 0.04527 0.05287 0.06153 0.07136 0.08249 0.09505 0.10920 0.14280 0.14280 0.14280 0.14280 0.14260 0.14470 0.20910 0.22630 0.22630 0.29930		NOT PERTINENT