METHYLDICHLOROSILANE

C/							
				an factor d'a c	 FIRE HAZARDS 4.1 Flash Point: -14°F O.C. 		
Common Synonyms Liquid			odor		 4.2 Flammable Limits in Air: 6% 4.3 Fire Extinguishing Agents: I or carbon dioxide 		
		Reacts violently w water.	th water. Irritating gas is produced on o	contact with	 4.4 Fire Extinguishing Agents N Used: Water, foam 4.5 Special Hazards of Combust 		
Wear goggles Shut off ignitio	s and self-co on sources.	AVOID CONTACT W ntained breathing ap Call fire department lution control agenci			 Products: Toxic hydrogen c phosgene gases may be forr 4.6 Behavior in Fire: Difficult to e re-ignition may occur. Conta water applied to adjacent fire 		
	FLAMMABLE. POISONOUS GASES MAY BE PRODUCED IN FIRE. Containers may explode in fire. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Extinguish with dry chemicals or carbon dioxide. DO NOT USE WATER OR FOAM ON FIRE. DO NOT USE WATER OR FOAM ON DJACENT FIRES.				generate irritating hydrogen (4.7 Auto Ignition Temperature: 4.8 Electrical Hazards: Currently available 4.9 Burning Rate: 3.0 mm/min. 4.10 Adiabatic Flame Temperatu not available 4.11 Stoichometric Air to Fuel R:		
Exposure 	If inhaled wil Move victim If breathing i If breathing i LIQUID Will burn skii Harmful if sw Remove con Flush affecte IF IN EYES, IF SWALLO	eyes, nose and throat I cause difficult breat to fresh air. Tas stopped, give ar s difficult, give oxyg n and eyes. rallowed. taminated clothing a ed areas with plenty hold eyelids open a	ihing. ificial respiration. an. nd shoes.		(calc.) 4.12 Flame Temperature: Curre available 4.13 Combustion Molar Ratio (I Product): 5.0 (calc.) 4.14 Minimum Oxygen Concent Combustion (MOCC): Not 5. CHEMICAL REACT 5.1 Reactivity with Water: React form hydrogen chloride (hyc acid) 5.2 Reactivity with Common M. Reacts with Surface moistu		
Water F Pollution	Effect of low May be dang Notify local h	DUCE VOMITING. concentrations on a gerous if it enters wa health and wildlife of tors of nearby water	icials.		hydrogen chloride, which is o common metals. 5.3 Stability During Transport: S 5.4 Neutralizing Agents for Acid Caustics: Flood with water a with sodium bicarbonate or li		
	,				5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization:		
rubber gloves; and eyes. 3.2 Symptoms Follow cause pulmon: causes burns 3.3 Treatment of Exp merove victim with water for amounts of wa 3.4 TLV-TWA: Not iist 3.5 TLV-STEL: Not iist 3.6 TLV-STEL: Not iist 3.6 TLV-Ceiling: Not ii 3.7 Toxicity by Ingest 3.8 Toxicity by Inhala 3.9 Chronic Toxicity; 3.10 Vapor (Gas) Irrita cause eye and 3.11 Liquid or Solid C	perse perse Physical Tri ive Equipm ; chemical w wing Expos any edema. of mouth an bosure : Get from expos 15 min. SK ater. ted. ted. ted. tion: Grade tion: Grade tion: Currer (Current) yn Stratetrist s very injurio : Currently nn isted. : Not listed. : Not listed. : Not listed. : Not listed. : Not listed.	eatment: 3. HEALTH I ent: Full protective - forker's goggles; oth ure: Inhalation caus Contact of liquid wi d stomach. medical attention fo ure; if breathing has IN: flush with water. 3; LDso = 50 to 500 htty not available. ot available ensites: vanors caus istics: vanors caus istics: Severe skin irri us to the eyes. ot available	slothing; acid-vapor-type respiratory pro er protective equipment as necessary to as irritation of respiratory tract; heavy e h skin or eyes causes severe burns. In lowing all exposures to this compound, stopped, begin artificial respiration. EP INGESTION: do NOT induce vomiting;	listed. 2 assification: optoection; optoect skin exposure can gestion INHALATION: (ES: flush give large	6. WATER POLLUTIO 6.1 Aquatic Toxicity: Currently not available 6.2 Waterfowl Toxicity: Currently available 6.3 Biological Oxygen Demand I Currently not available 6.4 Food Chain Concentration F None 6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources Human Oral hazard: (1) Human Contact hazard: 1 Reduction of amenities: X		

ZARDS	7. SHIPPING INFORMATION
-	
.C.	7.1 Grades of Purity: 97%
Air: 6%-55%	7.2 Storage Temperature: Ambient
Agents: Dry chemical	7.3 Inert Atmosphere: No requirement
gents Not to Be	7.4 Venting: Pressure-vacuum
Agents NOT to be	7.5 IMO Pollution Category: Currently not available
Combustion	7.6 Ship Type: Currently not available
drogen chloride and y be formed.	7.7 Barge Hull Type: Currently not available
ficult to extinguish;	8. HAZARD CLASSIFICATIONS
r. Contact with	8.1 49 CFR Category: Dangerous When Wet
acent fires will ydrogen chloride gas.	8.2 49 CFR Class: 4.3
erature: >600	
Currently not	8.3 49 CFR Package Group:
ourionaly not	8.4 Marine Pollutant: No
m/min.	8.5 NFPA Hazard Classification:
mperature: Currently	Category Classification Health Hazard (Blue) 3
Fuel Ratio: 11.9	Flammability (Red) 3
	Instability (Yellow) 2
: Currently not	Special (White) ₩
	8.6 EPA Reportable Quantity: Not listed.
Ratio (Reactant to	8.7 EPA Pollution Category: Not listed.
.)	8.8 RCRA Waste Number: Not listed
concentration for C): Not listed	8.9 EPA FWPCA List: Not listed
-,	0.5 EI AT WI OA LIST. NOT INSTOL
REACTIVITY	9. PHYSICAL & CHEMICAL
er: Reacts violently to	PROPERTIES
ide (hydrochloric	
	9.1 Physical State at 15° C and 1 atm: Liquid
mon Materials:	9.2 Molecular Weight: 115
moisture to evolve which is corrosive to	9.3 Boiling Point at 1 atm: 106.7°F = 41.5°C = 314.7°K
	9.4 Freezing Point: -135°F = -93°C = 180°K
nsport: Stable	9.5 Critical Temperature: Not pertinent
for Acids and	9.6 Critical Pressure: Not pertinent
h water and rinse nate or lime solution.	9.7 Specific Gravity: 1.11 at 25°C (liquid)
pertinent	9.8 Liquid Surface Tension: (est.) 35 dynes/cm
ization: Not pertinent	= 0.035 N/m at 20°C
	9.9 Liquid Water Interfacial Tension: Not pertinent
	9.10 Vapor (Gas) Specific Gravity: 4
	9.11 Ratio of Specific Heats of Vapor (Gas):
le	Currently not available
Currently not	9.12 Latent Heat of Vaporization: 106 Btu/lb = 59 cal/g = 2.5 X 10 ⁵ J/kg
Demand (BOD): ble	9.13 Heat of Combustion: (est.) -4,700 Btu/lb = -2,600 cal/g = -110 X 10 ⁵ J/kg
tration Potential:	9.14 Heat of Decomposition: Not pertinent
ofile:	9.15 Heat of Solution: Currently not available
	9.16 Heat of Polymerization: Not pertinent
sources: 1	9.17 Heat of Fusion: Currently not available
: (1)	9.18 Limiting Value: Currently not available
zard: I ities: X	9.19 Reid Vapor Pressure: Currently not
	available
NOTES	5

METHYLDICHLOROSILANE

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
34 36 38 40 42 44 46 48 50 52 54 56 56 56 60 62 64 66 68 70 72 74 76 78 80 82 84	70.469 70.400 70.330 70.259 70.190 70.120 70.049 69.980 69.310 69.339 69.770 69.500 69.570 69.500 69.429 69.360 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.290 69.200 69.290 69.2000 69.2000 69.2000 69.2000 69.2000 69.2000 69.2000 69.2000 69.2000000000000000000000000000000000000	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 71 71 73 74 75 76	0.350 0.350	52 54 56 58 60 62 64 66 68 70 72 74 74 76 80 82 84 80 82 84 88	0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839 0.839	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 71 73 73 74 75 76	9.018 8.773 8.535 8.305 7.865 7.666 7.452 7.255 7.064 6.6899 6.524 6.355 6.190 6.355 6.190 6.331 5.876 5.726 5.580 5.438 5.439 5.439 5.439 5.439 5.438 5.438 5.439 5.667 5.726

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	70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100 102 104 106 108 110 112	6.841 7.149 7.467 7.797 8.139 8.493 8.860 9.240 9.633 10.040 10.460 10.900 11.350 11.810 12.290 12.790 13.300 13.830 14.380 14.940 15.530 16.130	70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100 102 104 106 108 110 112	0.13840 0.14400 0.14990 0.15590 0.16220 0.16860 0.17520 0.18210 0.18910 0.20390 0.21160 0.24480 0.23370 0.24480 0.25370 0.24480 0.25370 0.24290 0.27730 0.28200 0.30220		N O T P E R T I N E N T