

ETHYLPHENYLDICHLOROSILANE

EPS

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms	Liquid	Colorless	Sharp irritating odor	<p>4.1 Flash Point: >150°F O.C.</p> <p>4.2 Flammable Limits in Air: Currently not available</p> <p>4.3 Fire Extinguishing Agents: Dry chemical</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Water, foam</p> <p>4.5 Special Hazards of Combustion Products: Toxic hydrogen chloride and phosgene fumes may be formed.</p> <p>4.6 Behavior in Fire: Difficult to extinguish; re-ignition may occur. Contact with water applied to adjacent fires will generate irritating hydrogen chloride gas.</p> <p>4.7 Auto Ignition Temperature: Currently not available</p> <p>4.8 Electrical Hazards: Currently not available</p> <p>4.9 Burning Rate: 3.7 mm/min.</p> <p>4.10 Adiabatic Flame Temperature: Currently not available</p> <p>4.11 Stoichiometric Air to Fuel Ratio: 52.4 (calc.)</p> <p>4.12 Flame Temperature: Currently not available</p> <p>4.13 Combustion Molar Ratio (Reactant to Product): 15.0 (calc.)</p> <p>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</p>	<p>7.1 Grades of Purity: Commercial</p> <p>7.2 Storage Temperature: Ambient</p> <p>7.3 Inert Atmosphere: No requirement</p> <p>7.4 Venting: Pressure-vacuum</p> <p>7.5 IMO Pollution Category: Currently not available</p> <p>7.6 Ship Type: Currently not available</p> <p>7.7 Barge Hull Type: Currently not available</p>
Fire	KEEP PEOPLE AWAY. AVOID CONTACT WITH LIQUID AND VAPOR. Avoid inhalation. Wear rubber overclothing (including gloves). Call fire department. Notify local health and pollution control agencies. Protect water intakes.			<p>8. HAZARD CLASSIFICATIONS</p> <p>8.1 49 CFR Category: Corrosive material</p> <p>8.2 49 CFR Class: 8</p> <p>8.3 49 CFR Package Group: II</p> <p>8.4 Marine Pollutant: No</p> <p>8.5 NFPA Hazard Classification: Not listed</p> <p>8.6 EPA Reportable Quantity: Not listed.</p> <p>8.7 EPA Pollution Category: Not listed.</p> <p>8.8 RCRA Waste Number: Not listed</p> <p>8.9 EPA FWPCA List: Not listed</p>	
Exposure	Combustible. POISONOUS GASES MAY BE PRODUCED IN FIRE. Extinguish with dry chemicals or carbon dioxide. DO NOT USE WATER OR FOAM ON FIRE.			<p>9. PHYSICAL & CHEMICAL PROPERTIES</p> <p>9.1 Physical State at 15°C and 1 atm: Liquid</p> <p>9.2 Molecular Weight: 205.1</p> <p>9.3 Boiling Point at 1 atm: >300°F = >149°C = >422°K</p> <p>9.4 Freezing Point: Not pertinent</p> <p>9.5 Critical Temperature: Not pertinent</p> <p>9.6 Critical Pressure: Not pertinent</p> <p>9.7 Specific Gravity: 1.159 at 15°C (liquid)</p> <p>9.8 Liquid Surface Tension: (est.) 25 dynes/cm = 0.025 N/m at 20°C</p> <p>9.9 Liquid Water Interfacial Tension: Not pertinent</p> <p>9.10 Vapor (Gas) Specific Gravity: Not pertinent</p> <p>9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent</p> <p>9.12 Latent Heat of Vaporization: 103 Btu/lb = 57 cal/g = 2.4 X 10⁶ J/kg</p> <p>9.13 Heat of Combustion: (est.) -9,900 Btu/lb = -5,500 cal/g = -230 X 10⁶ J/kg</p> <p>9.14 Heat of Decomposition: Not pertinent</p> <p>9.15 Heat of Solution: Currently not available</p> <p>9.16 Heat of Polymerization: Not pertinent</p> <p>9.17 Heat of Fusion: Currently not available</p> <p>9.18 Limiting Value: Currently not available</p> <p>9.19 Reid Vapor Pressure: Currently not available</p>	
Water Pollution	Effect of low concentration on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.			<p>5. CHEMICAL REACTIVITY</p> <p>5.1 Reactivity with Water: Reacts with water to generate hydrogen chloride (hydrochloric acid)</p> <p>5.2 Reactivity with Common Materials: Will react with surface moisture to evolve hydrogen chloride, which is corrosive to common metals.</p> <p>5.3 Stability During Transport: Stable</p> <p>5.4 Neutralizing Agents for Acids and Caustics: Flush with water, rinse with sodium bicarbonate or lime solution.</p> <p>5.5 Polymerization: Not pertinent</p> <p>5.6 Inhibitor of Polymerization: Not pertinent</p> <p>6. WATER POLLUTION</p> <p>6.1 Aquatic Toxicity: Currently not available</p> <p>6.2 Waterfowl Toxicity: Currently not available</p> <p>6.3 Biological Oxygen Demand (BOD): Currently not available</p> <p>6.4 Food Chain Concentration Potential: None</p> <p>6.5 GESAMP Hazard Profile: Bioaccumulation: - Damage to living resources: 1 Human Oral hazard: I Human Contact hazard: II Reduction of amenities: XX</p>	
<p>1. CORRECTIVE RESPONSE ACTIONS</p> <p>Dilute and disperse Stop discharge Chemical and Physical Treatment: Neutralize Do not burn Do not add water to undissolved material</p> <p>2. CHEMICAL DESIGNATIONS</p> <p>2.1 CG Compatibility Group: Not listed. 2.2 Formula: (C₂H₅)(C₆H₅)SiCl₂ 2.3 IMO/UN Designation: 8/1760 2.4 DOT ID No.: 2435 2.5 CAS Registry No.: 1125-27-5 2.6 NAERG Guide No.: 156 2.7 Standard Industrial Trade Classification: 51550</p> <p>3. HEALTH HAZARDS</p> <p>3.1 Personal Protective Equipment: Acid-vapor-type respiratory protection; rubber gloves; chemical worker's goggles; other equipment as necessary to protect skin and eyes.</p> <p>3.2 Symptoms Following Exposure: Inhalation irritates nose and throat. Contact with liquid causes severe burns of eyes and skin. Ingestion causes severe burns of mouth and stomach.</p> <p>3.3 Treatment of Exposure: INHALATION: remove victim to fresh air; give artificial respiration if needed; call physician. EYES: flush with water for 15 min.; obtain medical attention immediately. SKIN: flush with water; obtain medical attention if burning has occurred. INGESTION: if victim is conscious, give large amounts of water, then induce vomiting; get medical attention.</p> <p>3.4 TLV-TWA: Not listed.</p> <p>3.5 TLV-STEL: Not listed.</p> <p>3.6 TLV-Ceiling: Not listed.</p> <p>3.7 Toxicity by Ingestion: Grade 3; LD₅₀ = 50 to 500 mg/kg</p> <p>3.8 Toxicity by Inhalation: Currently not available.</p> <p>3.9 Chronic Toxicity: Currently not available</p> <p>3.10 Vapor (Gas) Irritancy Characteristics: Vapors cause moderate irritation such that personnel will find high concentrations unpleasant. The effect is temporary.</p> <p>3.11 Liquid or Solid Characteristics: Severe skin irritant. Causes second- and third-degree burns on short contact and is very injurious to the eyes.</p> <p>3.12 Odor Threshold: Currently not available</p> <p>3.13 IDLH Value: Not listed.</p> <p>3.14 OSHA PEL-TWA: Not listed.</p> <p>3.15 OSHA PEL-STEL: Not listed.</p> <p>3.16 OSHA PEL-Ceiling: Not listed.</p> <p>3.17 EPA AEGL: Not listed</p>				<p>NOTES</p>	

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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	72.589	60	0.400	51	0.967	60	7.064
54	72.520	61	0.400	52	0.967	61	6.879
56	72.450	62	0.400	53	0.967	62	6.699
58	72.379	63	0.400	54	0.967	63	6.524
60	72.309	64	0.400	55	0.967	64	6.355
62	72.240	65	0.400	56	0.967	65	6.190
64	72.169	66	0.400	57	0.967	66	6.031
66	72.099	67	0.400	58	0.967	67	5.876
68	72.040	68	0.400	59	0.967	68	5.726
70	71.969	69	0.400	60	0.967	69	5.580
72	71.900	70	0.400	61	0.967	70	5.438
74	71.830	71	0.400	62	0.967	71	5.301
76	71.759	72	0.400	63	0.967	72	5.167
78	71.690	73	0.400	64	0.967	73	5.037
80	71.620	74	0.400	65	0.967	74	4.911
82	71.549	75	0.400	66	0.967	75	4.789
84	71.480	76	0.400	67	0.967	76	4.670
86	71.410	77	0.400	68	0.967	77	4.555
		78	0.400	69	0.967		
		79	0.400	70	0.967		
		80	0.400	71	0.967		
		81	0.400	72	0.967		
		82	0.400	73	0.967		
		83	0.400	74	0.967		
		84	0.400	75	0.967		
		85	0.400	76	0.967		

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	130	0.029	130	0.00093	N	O	T
E	140	0.039	140	0.00123			
A	150	0.052	150	0.00162			
C	160	0.068	160	0.00211			
T	170	0.090	170	0.00273	P	E	T
S	180	0.117	180	0.00349			
	190	0.151	190	0.00444			
	200	0.193	200	0.00560			
	210	0.246	210	0.00702	I	N	E
	220	0.311	220	0.00874			
	230	0.390	230	0.01080			
	240	0.486	240	0.01327			
	250	0.602	250	0.01620			
	260	0.741	260	0.01967			
	270	0.907	270	0.02375			
	280	1.104	280	0.02853			
	290	1.338	290	0.03409			
	300	1.612	300	0.04054			
	310	1.933	310	0.04798			
	320	2.307	320	0.05654			
	330	2.742	330	0.06634			
	340	3.244	340	0.07751			
	350	3.822	350	0.09020			
	360	4.496	360	0.10460			
	370	5.244	370	0.12080			
	380	6.108	380	0.13900			