TETRAETHYL LEAD

Common Syno Lead tetraethyl	nyms	Oily liquid	Colorless, but generally Fruity odor dyed red		
TEL		Sinks in water. Poisonous, flammable vapor is produced.			
Wear goggl Call fire dep Stay upwind	es, self-conta partment. d and use wat health and po	ID CONTACT WITH	LIQUID AND VAPOR. atus, and rubber overclothing (including gloves). lown" vapor.		
Fire	Fire Combustible. POISONOUS GASES ARE PRODUCED IN FIRE. Containers may explode in fire. Vapor may explode if ignited in an enclosed area. Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves). Combat fires from behind barrier or protected location. Flood discharge area with water. Extinguish with water, dry chemical, foam, or carbon dioxide. Cool exposed containers with water.				
Exposure	CALL FOR	MEDICAL AID.			
	Irritating to e Move to free If breathing If breathing POISONOU Will burn ey Remove cor Flush affect IF IN EYES, IF SWALLO or milk and H	ISONOUS IF INHALED OR IF SKIN IS EXPOSED. ating to eyes. ve to fresh air. reathing has stopped, give artificial respiration. reathing is difficult, give oxygen. UID ISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED.			
Water Pollution	May be dan Notify local	EUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. dangerous if it enters water intakes. ocal health and wildlife officials. operators of nearby water intakes.			
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Pump Do not burn			2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: Pb(C:Hb)4 2.3 IMO/UN Designation: 6.1/1649 2.4 DOT ID No.: 1649 2.5 CAS Registry No.: 78-00-2 2.6 NAERG Guide No.: 131 2.7 Standard Industrial Trade Classification: 51550		
type for long white or ligh from inhalat confuse wit 3.3 Treatment of E INGESTION distillate foil 3.4 TLV-TWA: 0.1 1 3.5 TLV-STEL: Not 3.6 TLV-Ceilling: No 3.7 Toxicity by Ingu 3.8 Toxicity by Ingu 3.9 Chronic Toxicit 3.10 Vapor (Gas) Im system if pr 3.11 Liquid or Solid	ger periods; n it-colored clott owing Exposi- tion or skin co- hinorganic let xposure: Rer & induce vorm owed by soar ng/m ² listed. it fisted. setion: Crair re- sent in high Characterist vy: Lead poiss tiant Charact esent in high Characterist avy cause see d: Currently n mg Pb/m ² A: 0.075 mg/ EL: Not listed.	eoprene-coated, liqu urg: Incber shoes o urg: Increased urina tact, may cause ins id. nove victim from cor riting. SKIN: wash irr and water. at LD _{L0} = 17 mg/kg ntly not available. ning eristics: Vapors car soncentrations. The ics: Causes smartin sondary burns on ot available m ³	type canister face mask for short periods; air line id-proof gloves; protective goggles or face shield; r boots. ary output of lead. If a large degree of absorption comma, excitability, delirium, coma and death. Do not ttaminated area and consult physician immediately. mediately with kerosene or similar petroleum use a slight smarting of the eyes or respiratory effect is temporary. g of the skin and first-degree burns on short		

 I Flash Point: 185°F O.C. 200°F C.C. Flammable Limits in Air: Currently not available Fire Extinguishing Agents: Water, foam, dry chemical, or carbon dioxide Fire Extinguishing Agents Not to Be Used: Not pertinent Special Hazards of Combustion Products: Toxic gases are generated in fires. Behavior in Fire: May explode in fires. Auto Ignition Temperature: Decomposes above 230°F Electrical Hazards: Not pertinent 	7.1 Grades of Purity: Technical 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Pressure-vacuum 7.5 IMO Pollution Category: Currently not 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available
 1.9 Burning Rate: Currently not available 1.10 Adiabatic Flame Temperature: Currently not available 1.11 Stoichometric Air to Fuel Ratio: 66.6 	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Poison 8.2 49 CFR Class: 6.1 8.3 49 CFR Package Group: 1 8.4 Marine Pollutant: Yes 8.5 NFPA Hazard Classification: Category Classification: Health Hazard (Blue)
(calc.) 1.12 Flame Temperature: Currently not available 1.13 Combustion Molar Ratio (Reactant to Product): 19.0 (calc.) 1.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	Flammability (Red)
 Reactivity with Water: No reaction Reactivity with Common Materials: Rust and some metals cause decomposition. Stability During Transport: Stable below 230'F. At higher temperatures, may detonate or explode when confined. Neutralizing Agents for Acids and Caustics: Not pertinent Polymerization: Not pertinent Polymerization: Not pertinent MATER POLLUTION Aquatic Toxicity: 0.20 mg//96 hr/buegil/TL/fresh water Waterfowl Toxicity: Currently not available Food Chain Concentration Potential: Currently not available Food Chain Concentration Potential: Currently not available GeSAMP Hazard Profile: Bioaccumulation: + Damage to living resources: 4 Human Oral hazard: 3 Human Contact hazard: 11 Reduction of amenities: XXX 	 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: L 9.2 Molecular Weight: 323.44 9.3 Boiling Point at 1 atm: Decomposes 9.4 Freezing Point: -215°F = -137°C = 1 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 1.633 at 20°C (liquid 9.8 Liquid Surface Tension: 28.5 dynes/ 0.0285 km at (est). 25°C 9.9 Liquid Water Interfacial Tension: (est dynes/cm = 0.04 km at 20°C 9.10 Vapor (Gas) Specific Gravity: Not p 9.11 Ratio of Specific Heats of Vapor (G Not pertinent 9.12 Latent Heat of Vaporization: Not per 9.13 Heat of Combustion: (est.) -7,870 E -4,380 cal/g = -183 X 10° J/kg 9.14 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Solution: Not pertinent 9.18 Heat of Solution: Not pertinent 9.19 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not availab 9.19 Reid Vapor Pressure: Currently not available

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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
46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 92 94 96	103.400 103.200 103.099 102.500 102.599 102.599 102.299 102.200 101.2000 101.300 101.700 101.709 101.400 101.299 101.000 100.799 100.700 100.500 100.400 100.200 100.200 100.200 99.929 99.780 99.629	50 52 54 56 58 60 62 64 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100	0.597 0.597		N OT PERTIZENT	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78	1.247 1.222 1.199 1.175 1.153 1.131 1.109 1.088 1.048 1.029 1.010 0.992 0.974 0.957 0.940 0.924 0.940 0.924 0.930 0.892 0.892 0.892 0.862 0.847 0.847 0.833 0.819 0.806 0.793

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
	L N S O L U B L E	35 40 45 50 55 60 65 70 75 80 85 90 95 90 95 100 100 100 110 110 115 120 125 130 135 140 145 155	0.001 0.001 0.002 0.002 0.003 0.003 0.004 0.005 0.007 0.008 0.010 0.012 0.015 0.018 0.027 0.039 0.047 0.039 0.047 0.039 0.047 0.056 0.066 0.066 0.066 0.079 0.093 0.110 0.129	35 40 45 50 55 60 65 70 75 80 85 90 95 90 95 90 100 100 100 110 110 115 120 125 130 135 140 145 155	0.00000 0.00001 0.00001 0.00001 0.00002 0.00002 0.00003 0.00005 0.00006 0.00006 0.00007 0.00006 0.00007 0.00009 0.00012 0.00015 0.00015 0.00012 0.00015 0.00012 0.00012 0.00015 0.00012 0.00014 0.00024 0.00024 0.00039 0.00039 0.00039		N O T E R T I N E N T