METHYL N-BUTYL KETONE

		PV PESPO				50			
CAUTION Common Synonyms n-Butyl methyl ketone 2-Hexanone		Liquid Clear Disagreeable Cloars and mixes with water.		 FIRE HAZARI Flash Point: 83°F O.C. 77 Flammable Limits in Air: Fire Extinguishing Agent chemical, 'alcohof' foam Fire Extinguishing Agent 	7°F C.C. 1.3%-8.0% ts: Dry n, carbon dioxide ts Not to Be	 SHIPPING INFORMATION Grades of Purity: Commercial, 95%; Pure, 99% Storage Temperature: Ambient Inert Atmosphere: No requirement Venting: Open (flame arrester) Si MO Pollution Category: D 			
Shut off ig Stay upwir	le away. Avoid con nition sources. Cal Id. Use water spra I health and pollutio	Ill fire department. ay to ``knock down'	" vapor.		Used: Water may be inef 4.5 Special Hazards of Comb Products: Currently not a 4.6 Behavior in Fire: Currently 4.7 Auto Ignition Temperatur	bustion available ly not available	7.6 Ship Type: Data not avaialable 7.7 Barge Hull Type: Currently not available		
Fire	FLAMMABLE. Containers may explode in fire. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Extinguish with dry chemicals, alcohol foam, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.				 4.7 Auto ignition temperatur 4.8 Electrical Hazards: Currer available 4.9 Burning Rate: 4.8 mm/min 4.10 Adiabatic Flame Temper not available 4.11 Stoichometric Air to Fuel (calc.) 	ntly not n. rature: Currently	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Not listed 8.2 49 CFR Class: Not pertinent 8.3 49 CFR Package Group: Not listed. 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification		
Exposure	CALL FOR MEDICAL AID. VAPOR Irritating to eyes, nose and throat. Harmful if inhaled. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID Irritating to skin and eyes. Harmful if swallowed. Remove contarrinated clothing and shoes. Flush affected areas with plenty of water.				4.12 Flame Temperature: Curravillable 4.13 Combustion Molar Ratio Product): 12.0 (calc.) 4.14 Minimum Oxygen Conce Combustion (MOCC): N 5. CHEMICAL REAC 5.1 Reactivity with Water: No 5.2 Reactivity with Common 1 Currently not available 5.2 Obliging Temperature	o (Reactant to entration for lot listed CTIVITY o reaction Materials:	Health Hazard (Blue)		
	IF IN EYES, hold IF SWALLOWEI water of milk and IF SWALLOWEI	d eyelids open and D and victim is CC d have victim induc D and victim is UN	d flush with plenty of wate DNSCIOUS, have victim d	rink	5.3 Stability During Transpor 5.4 Neutralizing Agents for A Caustics: Not pertinent 5.5 Polymerization: Not pertin 5.6 Inhibitor of Polymerizatio	Acids and	 9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 100.16 9.3 Boiling Point at 1 atm: 261°F = 127°C = 400°K 9.4 Freezing Point: -70.4°F = -56.9°C = 		
Water Pollution	May be dangero Notify local healt	ect of low concentrations on aquatic life is unknown. 216.3°K y be dangerous if it enters water intakes. 9.5 Critical Temperature: Not per life your per life y							
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Burn; Absorb Clean shore line Salvage waterfowl 2. CHEMICAL DESIGNATIONS 2. Chemical Designation: Not listed 2.4 DOT ID No: Not listed 2.5 CAS Registry No: 591-78-6 2.6 NAERG Guide No: Not listed 2.7 Standard Industrial Trade Classification: 51625 3. HEALTH HAZARDS 3.1 Personal Protective Equipment: Protective gloves: goggles or face shield; approved respirator (for major spills)				Group: Not listed. b)cCOCHa ion: Not listed isted :: 591-78-6 :: Not listed ial Trade Classification: approved respirator (for	6.3 Biological Oxygen Demar Currently not available 6.4 Food Chain Concentratio None 6.5 GESAMP Hazard Profile:	on Potential:	 9.9 Liquid Water Interfacial Tension: 9.73 dynes/cm = 0.00973 N/m at 20°C 9.10 Vapor (Gas) Specific Gravity: 3.5 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: 148 Btu/lb = 82 cafg = 3.4 X 10° J/kg 9.13 Heat of Combustion: -16,100 Btu/lb = -8,940 cafg = -374 X 10° J/kg 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 		
 Symptoms Following Exposure: Inhalation of high concentrations of vapor may result in narcosis; peripheral neuropathy may develop. Ingestion of large amounts may cause some systemic injury. Contact with eyes causes mild to moderate inritation. Liquid irritates skin; prolonged or repeated contact may cause defatting of the skin with resultant dermattis. Treatment of Exposure: INHALATION: move to uncontaminated atmosphere and treat synthomatically; alert physician to possible development of peripheral neuropathy. INGESTION: give large amount of water and induce vomiting. EVES: irrigate immediately and thoroughly with water. Tu-V-WA: 5 pm Tu-V-STEL: Not listed. Toxicity by Ingestion: Grade 2; oral LDso = 2,590 mg/kg (rat). Toxicity by Inhalation: Currently not available. Toxicity by Inhalation: Currently not available. Chronic Toxicity: Peripheral neuropathy in experimental animals and man (disease of motor and/or sensory nerves). U Vapor (Gas) Irritant Characteristics: Currently not available. 20 dor Threshold: Currently not available. 210 dor Threshold: Currently not available. 213 DOR HelL-STEL: Not listed. 216 OSHA PEL-STEL: Not listed. 216 OSHA PEL-STEL: Not listed. 216 OSHA PEL-STEL: Not listed. 217 EPA AEGL: Not listed. 						NOTE	9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available S		

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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
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130	51.470 51.320 51.170 51.030 50.730 50.730 50.580 50.430 50.280 50.120 49.970 49.820 49.620 49.510 49.350 49.510 49.350 49.190 49.330 48.870 48.710	35 40 45 50 55 60 65 70 75 80 85 90 95 100	0.550 0.550 0.550 0.550 0.550 0.550 0.550 0.550 0.550 0.550 0.550 0.550 0.550 0.550	30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220	1.038 1.029 1.010 1.010 1.011 0.992 0.982 0.973 0.964 0.975 0.945 0.936 0.927 0.936 0.927 0.938 0.918 0.908 0.899 0.890 0.881 0.871 0.862	52 54 56 58 60 62 64 66 68 70 72 72 74 76 80 82 84 86	0.711 0.699 0.688 0.677 0.655 0.645 0.635 0.625 0.615 0.615 0.606 0.587 0.578 0.570 0.578 0.570 0.561 0.561

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
68	1.400	60 70 80 90 100 120 130 140 150 160 170 180 200 210 220 230 240 250 260	0.231 0.306 0.402 0.522 0.671 0.856 1.082 1.357 1.689 2.088 2.563 3.125 3.788 4.564 5.468 6.516 7.724 9.112 10.700 12.500 14.550	60 70 80 90 100 120 130 140 150 160 170 180 210 220 230 240 250 260	0.00415 0.00540 0.00695 0.01885 0.01119 0.01401 0.01741 0.02147 0.02628 0.03195 0.03859 0.04631 0.05525 0.06555 0.06555 0.07734 0.09078 0.10600 0.14270 0.14240 0.18860		N O T P E R T I N E N T