CAMPHOR OIL

		RY RESPO	NSE INFORMATION		4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Syno Liquid camphor Liquid gum camphor Liquid impure camphor Call fire dej Avoid contu Notify local Protect wa	nyms Oilt or Usu partment. act with liquid. I health and pollution ter intakes.	y liquid ually floats on wa n control agencie	Colorless or brown or Penetrating camphor odor ter.	4. 4. 4. 4. 4.	Flam Able Limits in Air: Currently not available Fire Extinguishing Agents: Foam, carbon dioxide, or dry chemical Fire Extinguishing Agents Not to Be Used: Not pertinent Special Hazards of Combustion Products: Not pertinent Behavior in Fire: The solid often evaporates without first melling.	 7.1 Grades of PUTRY: Each lot of campnor bin has a sunique composition, which varies with the time of year and the country of origin. At least a dozen grades are known. Most camphor sold i the U.S. is synthetic and is quite pure. 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open 7.5 IMO Pollution Category: B 7.6 Ship Type: 2 7.7 Barca Hull Type: 2
Fire	Fire Combustible. Extinguish with dry chemical, foam or carbon dioxide.			4.	7 Auto Ignition Temperature: 466°C 8 Electrical Hazards: Not pertinent	8 HAZARD CLASSIFICATIONS
Exposure	CALL FOR MEDICAL AID. VAPOR Not irritating to eyes, nose or throat. Move to fresh air. LIQUID Irritating to skin and eyes. If swallowed, will cause nausea, vomiting or loss of consciousness. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.			4. 4. 4. 4. 4.	 Burning Rate: Currently not available Adiabatic Flame Temperature: Currently not available Stoichometric Air to Fuel Ratio: 64.3 (calc.) Flame Temperature: Currently not available Combustion Molar Ratio (Reactant to Product): 18.0 (calc.) Minimum Oxygen Concentration for Combustion (MOCC): Not listed CHEMICAL REACTIVITY 	8.1 49 CFR Category: Flammable liquid 8.2 49 CFR Class: 3 8.3 49 CFR Package Group: III 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue)
Water Pollution	Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and pollution control officials. Notify operators of nearby water intakes.			5. 5. 5. 5.	Reactivity with Water: No reaction Reactivity with Common Materials: No reaction Stability During Transport: Stable A Neutralizing Agents for Acids and	8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Not listed 9. PHYSICAL & CHEMICAL 9. PHYSICAL & CHEMICAL
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain 2. CHEMICAL DE Collection Systems: Skim; Pump Chemical and Physical Treatment: Absorb Clean shore line Salvage waterfowl 2.1 CG Compatibility Gr 2.2 Formula: Col+leO 2.3 IMO(JND Designation 2.4 DOT ID No.: 1130 2.3 IMO(JND Designation 2.4 DOT ID No.: 1130 2.5 CAS Registry No.: 7 Clean shore line Salvage waterfowl 2.6 NAERG Guide No.: 2.7 Standard Industrial 51628		2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 18; Ketone 2.2 Formula: CreHreO 2.3 IMO/UN Designation: 3.3/1130 2.4 DOT ID No::1130 2.5 CAS Registry No:: 76-22-2 2.6 NAERG Guide No:: 128 2.7 Standard Industrial Trade Classification: 51628	5. 5. 6. 6.	Caustics: Not pertinent 5 Polymerization: Not pertinent 6 Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION 1 Aquatic Toxicity: Currently not available 2 Waterfowl Toxicity: Currently not available 3 Biological Oxygen Demand (BOD):	 9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: Not pertinent 9.3 Boiling Point at 1 atm: 347 - 392°F = 175 - 200°C = 448 - 473°K 9.4 Freezing Point: Not pertinent 9.5 Critical Temperature: Not pertinent 9.6 Critical Temperature: Not pertinent 9.7 Specific Gravity: 0.923 at 25°C (liquid) 9.8 Liquid Surface Tension: Currently not 	
 3.1 Personal Prote 3.2 Symptoms Foil nausea and delirium, an epileptiform syndrome a convulsions death resul weeks), off 3.3 Treatment of E sedatives. use analep 3.4 TLV-TWA: 2 pp 3.5 TLV-STEL: Not 3.6 TLV-Ceiling: 3 3.7 Toxicity by Ing 3.8 Toxicity by Inh 	ective Equipment: lowing Exposure 4 vomiting; feeling of dhallucinations; inc and may be severe, s); coma; central ne ts from respiratory f en with persistent g exposure : For an or Control convulsions tics or opiates. m listed. ppm estion: Currently no alation: Currently no	Eye protection Within 5 to 90 m (warmth; headac reased muscula but they do not 1 rrous depressio but they do not 1 rrous depressio but they do not 1 rrous depressio raliure or from st pastric distress. ral intoxication, a s with a short-ac	inutes after swallowing, the following may be noted: che; confusion, vertigo, excitement, restlessness, r excitability, tremors, and jerky movements; n (convulsions sometimes occur early in the nave the grave prognosis of strychnine n may at times be the primary clinical response; atus epilepticus; slow convalescence (days or administer gastric lavage, cathartics, diuretics, and ting barbiturate, chloral hydrate, or ether. Do NOT	6.	None 5 GESAMP Hazard Profile: Bioaccumulation: T Damage to living resources: (3) Human Conta hazard: 2 Human Contact hazard: 0 Reduction of amenities: XX	 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.10 Vapor (Gas) Specific Heats of Vapor (Gas): Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: Not pertinent 9.16 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available
 Chronic Toxici Janu Vapor (Gas) Ir 3.10 Vapor (Gas) Ir 3.11 Liquid or Solic cause sma 3.12 Odor Thresho 3.13 IDLH Value: 20 3.14 OSHA PEL-ST 3.16 OSHA PEL-Ce 3.17 EPA AEGL: No 	ty: Currently not av: friant Characteristics: 1 fring and reddening ld: Currently not av: 20 mg/m ³ VA: 2 mg/m ³ EL: Not listed. iling: Not listed. ot listed	ailable ics: Vapors are Minimum hazard. of the skin. ailable	nonirritating to the eyes and throat. If spilled on clothing and allowed to remain, may		N	UIES

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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
32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80	57,430 57,430	32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80	0.478 0.478	32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80	0.901 0.901	32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80	14.250 13.960 13.670 13.400 13.130 12.870 12.820 12.380 12.140 11.680 11.460 11.240 11.030 10.630 10.440 10.250 10.070 9.890 9.715 9.546 9.380 9.218 9.061

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
	I N S O L U B L E		C U R R E N T L Y N O T A V A I L A B L E		N O T R T I N E N T		N O T P E R T I N E N T