DIETHYLBENZENE

CAUTIONARY RESPONSE INFORMATION					
Common Synonyms		Liquid	Colorless	Sweet, gasoline- like odor	
		Floats on wa	ater.		
Keep people away. Call fire department. Avoid contact with liquid. Notify local health and pollution control agencies.					
Fire	Combustible. Extinguish with water, dry chemical, foam, or carbon dioxide. Cool exposed containers with water.				
Exposure	CALL FOR MEDICAL AID. LIQUID Irritating to skin and eyes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water.				
Water Pollution	Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if its enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.				

CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Burn Clean shore line Salvage waterfowl	CHEMICAL DESIGNATIONS CG Compatibility Group: 32; Aromatic Hydrocarbon Formula: Cal+I(Cal+a)2 MOVIN Designation: 3.3/2049 CAS Registry No.: 1300-82-9 NAERG Guide No.: 130 Nature Cassification: 3.7 Standard Industrial Trade Classification:

3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Self-contained breathing apparatus, safety googles
- 3.2 Symptoms Following Exposure: High vapor concentrations produce eye and respiratory tract irritation, dizziness, depression. Liquid irritates and may blister skin, can cause corneal injury to
- eye.

 3.3 Treatment of Exposure: INHALATION: remove to fresh air and start artificial respiration.
 INGESTION: do NOT induce vomiting; call a doctor. CONTACT WITH EYES AND SKIN: flush with water for 15 min. Wash skin with soap and water.
- 3.4 TLV-TWA: Not listed.
- 3.5 TI V-STEL: Not listed
- 3.6 TLV-Ceiling: Not listed.
- 3.7 Toxicity by Ingestion: Grade 2; oral rat LDso = 1.2 g/kg
- 3.8 Toxicity by Inhalation: Currently not available.
- 3.9 Chronic Toxicity: Currently not available
- 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes and respiratory
- system if present in high concentrations. The effect is temporary.

 3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.
- 3.12 Odor Threshold: Currently not available
- 3.13 IDLH Value: Not listed. 3 14 OSHA PFI -TWA: Not listed
- 3.15 OSHA PEL-STEL: Not listed.
- 3.16 OSHA PEL-Ceiling: Not listed.
- 3.17 EPA AEGL: Not listed

4. FIRE HAZARDS

- 4.1 Flash Point: 135°F C.C.
- **4.2 Flammable Limits in Air:** Currently not available
- 4.3 Fire Extinguishing Agents: Foam, water, carbon dioxide, or dry chemical
- 4.4 Fire Extinguishing Agents Not to Be Used: Not pertine
- 4.5 Special Hazards of Combustion Products: Not pertinent
- 4.6 Behavior in Fire: Not pertinent
- 4.7 Auto Ignition Temperature: 743°F (ortho)
- 4.8 Electrical Hazards: Not pertinent
- 4.9 Burning Rate: Currently not available
- 4.10 Adiabatic Flame Temperature: Currently not available
- 4.11 Stoichometric Air to Fuel Ratio: 64.3 (calc.)
- 4.12 Flame Temperature: Currently not available
- 4.13 Combustion Molar Ratio (Reactant to Product): 17.0 (calc.)
- 4.14 Minimum Oxygen Concentration for Combustion (MOCC): № diluent: 8.5%

5. CHEMICAL REACTIVITY

- 5.1 Reactivity with Water: No reaction
- 5.2 Reactivity with Common Materials: No reaction
- 5.3 Stability During Transport: Stable
- 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
- 5.5 Polymerization: Not pertinent
- 5.6 Inhibitor of Polymerization: Not pertinent

6. WATER POLLUTION

- 6.1 Aquatic Toxicity: Currently not available
- 6.2 Waterfowl Toxicity: Currently not
- **6.3 Biological Oxygen Demand (BOD):**Currently not available
- 6.4 Food Chain Concentration Potential:
- **GESAMP Hazard Profile:** Bioaccumulation: T Damage to living resources: 3 Human Oral hazard: 1

Human Contact hazard: | Reduction of amenities: X

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: Technical (mixture of
- 7.2 Storage Temperature: Ambient
- 7.3 Inert Atmosphere: No requirement
- 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: A
- 7.6 Ship Type: 2
- 7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

- 8.1 49 CFR Category: Flammable liquid
- 8 2 49 CFR Class: 3
- 8.3 49 CFR Package Group: III 8.4 Marine Pollutant: Yes
- 8.5 NFPA Hazard Classification:
 - Category Classi Health Hazard (Blue)..... Classification
 - Flammability (Red).....
 - Instability (Yellow).....
- 8.6 EPA Reportable Quantity: Not listed.
- 8.7 EPA Pollution Category: Not listed.
- 8.8 RCRA Waste Number: Not listed
- 8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL **PROPERTIES**

- 9.1 Physical State at 15° C and 1 atm: Liquid
- 9.2 Molecular Weight: 134.21
- 9.3 Boiling Point at 1 atm: 356°F = 180°C =
- 9.4 Freezing Point: < 160°F = < 70°C = < 343°K
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: 0.86 at 20°C (liquid)
- 9.8 Liquid Surface Tension: 30 dynes/cm = 0.030 N/m at 20°C
- **9.9 Liquid Water Interfacial Tension:** Currently not available
- 9.10 Vapor (Gas) Specific Gravity: Not pertinent
- 9.11 Ratio of Specific Heats of Vapor (Gas):
 Not pertinent
- 9.12 Latent Heat of Vaporization: 140 Btu/lb = 77 cal/g = 3.2 X 10⁵ J/kg 9.13 Heat of Combustion: -17,800 Btu/lb = -9890 cal/g = -414 X 10⁵ J/kg
- 9.14 Heat of Decomposition: Not pertinent
- 9.15 Heat of Solution: Not pertinent
- 9.16 Heat of Polymerization: Not pertinent
- 9.17 Heat of Fusion: Currently not available
- 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 0.05 psia

NOTES

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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
34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 82 84	55.110 55.040 54.970 54.900 54.830 54.770 54.700 54.630 54.560 54.420 54.350 54.210 54.140 54.140 55.1400 53.930 53.860 53.790 53.790 53.750 53.450 53.380	51 52 53 54 55 56 57 58 59 60 61 62 63 64 66 67 71 72 73 74 75 76	0.459 0.459	42 44 46 48 50 52 54 56 58 60 62 64 68 70 72 74 76	1.040 1.040 1.040 1.040 1.040 1.040 1.040 1.040 1.040 1.040 1.040 1.040 1.040 1.040 1.040 1.040 1.040	50 52 54 56 60 62 64 66 68 70 72 74 78 80 82 84	0.878 0.862 0.846 0.831 0.817 0.802 0.788 0.775 0.762 0.749 0.736 0.724 0.712 0.700 0.689 0.656

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 NSOLUBLE	110 120 130 140 150 160 170 180 200 210 220 230 240 250 260 270 280 300	0.068 0.093 0.125 0.167 0.220 0.288 0.374 0.482 0.616 0.781 0.983 1.229 1.527 1.886 2.315 2.826 3.430 4.142 4.976 5.950	110 120 130 140 150 160 170 180 290 210 220 230 240 250 260 270 280 300	0.00150 0.00200 0.00265 0.00348 0.00452 0.00582 0.00743 0.00942 0.01185 0.01480 0.01835 0.02261 0.02769 0.03370 0.04079 0.04909 0.05877 0.07001 0.08299 0.09793		NOT PERTINENT