DIBENZYL ETHER

CAUTIONARY RESPONSE INFORMATION						
Common Synonyms Benzyl ether 1,1'-[Oxybis(methylene)] bis benzene		Liquid Colorless Mild odor May float or sink in water.				
Shut off ign	Keep people away. Shut off ignition sources. Call fire department. Avoid contact with liquid.					
Fire	Combustible Water and foam may be ineffective on fire. Extinguish with dry chemicals or carbon dioxide					
Exposure	CALL FOR MEDICAL AID. LIQUID Irritating to skin and eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.					
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 wildlife officials. Notify operators of local water intakes.					

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Stop discharge	2.1 CG Compatibility Group: Not listed.
	2.2 Formula: C14H14O
	2.3 IMO/UN Designation: Not listed
	2.4 DOT ID No.: Not listed
	2.5 CAS Registry No.: 103-50-4
	2.6 NAERG Guide No.: Not listed
	2.7 Standard Industrial Trade Classification:
	51616

3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Goggles or face shield; rubber gloves
- 3.2 Symptoms Following Exposure: Inhalation may cause nausea because of disagreeable odor. Contact of liquid with eyes causes mild irritation. Prolonged exposure of skin to liquid causes reddening and irritation. Ingestion produces nausea.

 3.3 Treatment of Exposure: EYES: Flush with water for at least 15 minutes. SKIN: Wipe off, wash with
- soap and water. INGESTION: Induce vomiting and get medical attention.
- 3.4 TLV-TWA: Not listed.
- 3.5 TLV-STEL: Not listed.
- 3.6 TLV-Ceiling: Not listed.
- 3.7 Toxicity by Ingestion: Grade 2; LD50 = 2.5 g/kg (rat)
- 3.8 Toxicity by Inhalation: Currently not available
- 3.9 Chronic Toxicity: Currently not available
- 3.10 Vapor (Gas) Irritant Characteristics: Currently not available
- 3.11 Liquid or Solid Characteristics: Currently not available
- 3.12 Odor Threshold: Currently not available
- 3.13 IDLH Value: Not listed.
 3.14 OSHA PEL-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: 275°F C.C.
- **4.2 Flammable Limits in Air:** Currently not available
- 4.3 Fire Extinguishing Agents: Dry chemical, carbon dioxide
- **4.4 Fire Extinguishing Agents Not to Be Used:** Water or foam may cause frothing.
- 4.5 Special Hazards of Combustion Products: Not pertinent
- 4.6 Behavior in Fire: Currently not available
- 4.7 Auto Ignition Temperature: Currently not available
- 4.8 Electrical Hazards: Currently not
- 4.9 Burning Rate: Currently not available
- 4.10 Adiabatic Flame Temperature: Currently not available
- 4.11 Stoichometric Air to Fuel Ratio: 80.9 (calc.)
- **4.12 Flame Temperature:** Currently not available
- 4.13 Combustion Molar Ratio (Reactant to Product): 21.0 (calc.)
- 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: 99%
- 7.2 Storage Temperature: Currently not available
- 7.3 Inert Atmosphere: Currently not available
- 7.4 Venting: Currently not available
- 7.5 IMO Pollution Category: Currently not available
- 7.6 Ship Type: Currently not available
- 7.7 Barge Hull Type: Currently not available

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 Classifi	Classificatio		
Category Classifi Health Hazard (Blue)	0		
Flammability (Red)	1		
Instability (Yellow)	0		

- 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**

- 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No 9.1 Physical State at 15° C and 1 atm: Liquid
- reaction 5.3 Stability During Transport: Stable

5. CHEMICAL REACTIVITY

- 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 available
- 6.3 Biological Oxygen Demand (BOD):
- **6.4 Food Chain Concentration Potential:**Currently not available
- 6.5 GESAMP Hazard Profile
- Bioaccumulation: 0
 Damage to living resources: 2
 Human Oral hazard: 1 Human Contact hazard: | Reduction of amenities: X

- 9.2 Molecular Weight: 198.26
- 9.3 Boiling Point at 1 atm: 568°F = 298°C = 571°K
- 9.4 Freezing Point: 38.5°F = 3.6°C = 277°K 9.5 Critical Temperature: Currently not available
- 9.6 Critical Pressure: Currently not available
- 9.7 Specific Gravity: 1.0428 at 20°C 9.8 Liquid Surface Tension: Currently not
- **9.9 Liquid Water Interfacial Tension:** Currently not available
- 9.10 Vapor (Gas) Specific Gravity: 6.84
- 9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
- 9.12 Latent Heat of Vaporization: Currently not
- 9.13 Heat of Combustion: Currently not available
- **9.14 Heat of Decomposition:** Currently not available
- 9.15 Heat of Solution: Currently not available 9.16 Heat of Polymerization: Currently not
- 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available
- 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
68	65.100		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE	35 40 45 50 55 60 65 70 75 80 85 90 95	9.672 8.490 7.571 6.835 6.234 5.732 5.308 4.944 4.629 4.353 4.110 3.894 3.700 3.526

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
	CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVA-LABLE	0 25 50 75 100 125 125 125 125 250 275 300 425 450 475 500 525 550 575 600	0.234 0.245 0.245 0.245 0.266 0.277 0.287 0.298 0.309 0.320 0.330 0.341 0.352 0.362 0.373 0.384 0.395 0.405 0.416 0.427 0.437 0.448 0.459 0.470 0.480 0.491