BENZYL DIMETHYLAMINE

CAUTIONARY RESPONSE INFORMATION 4. FIRE HAZARDS 7. SHIPPING INFORMATION 4.1 Flash Point: 130°C.C. 7.1 Grades of Purity: 99+% Common Synonyms Liauid Pale yellow to light Strong amine 7.2 Storage Temperature: Store under nitrogen Common Synonyms Catalyst 9915 a-(Dimethylamino)toluene N,N-Dimethyl benzene methanamine N,N-Dimethyl benzylamine N,N-(Dimethyl) a-tolueneamine browr odor 4.2 Flammable Limits in Air: Currently not 7.3 Inert Atmosphere: No requirement available 7.4 Venting: Open 4.3 Fire Extinguishing Agents: Dry Floats on water 7.5 IMO Pollution Category: Currently not available chemical, alcohol foam, carbon dioxide, water sprav. 7.6 Ship Type: Currently not available 4.4 Fire Extinguishing Agents Not to Be 7.7 Barge Hull Type: Currently not available Used: Currently not available Avoid contact with liquid. Keep people away Special Hazards of Combustion Call fire department 8. HAZARD CLASSIFICATIONS Notify local health and pollution control agencies Products: Toxic vapors are generated when heated. 8.1 49 CFR Category: Corrosive material 4.6 Behavior in Fire: Currently not available 8.2 49 CFR Class: 8 4.7 Auto Ignition Temperature: Currently not available Combustible Fire Combustible. POISONOUS GASES MAY BE PRODUCED IN FIRE. Wear goggles and self-contained breathing apparatus. Extinguish with dry chemical, alcohol foam or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water. 8.3 49 CFR Package Group: || 8.4 Marine Pollutant: No 4.8 Electrical Hazards: Currently not 8.5 NFPA Hazard Classification: available 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently Flammability (Red)..... 2 CALL FOR MEDICAL AID. not available Exposure 4.11 Stoichometric Air to Fuel Ratio: 63.1 Instability (Yellow)..... 0 LIQUID (calc.) 8.6 EPA Reportable Quantity: Not listed. Harmful if swallowed. Remove contaminated clothing and shoes. 4.12 Flame Temperature: Currently not 8.7 EPA Pollution Category: Not listed. available 8.8 RCRA Waste Number: Not listed 4.13 Combustion Molar Ratio (Reactant to 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. 8.9 EPA FWPCA List: Not listed Product): 16.5 (calc.) Minimum Oxygen Concentration Combustion (MOCC): Not listed ntration for IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm. 9. PHYSICAL & CHEMICAL PROPERTIES 5. CHEMICAL REACTIVITY Water Effect of low concentrations on aquatic life is unknown. 9.1 Physical State at 15° C and 1 atm: Liquid Fouling to shoreline. May be dangerous if it enters water intakes Notify local health and wildlife officials. Notify operators of nearby water intakes. 5.1 Reactivity with Water: No reaction 9.2 Molecular Weight: 135.21 Pollution 5.2 Reactivity with Common Materials: May attack some forms of plastics **9.3 Boiling Point at 1 atm:** 357.8°F = 181°C = 454.2°K 5.3 Stability During Transport: Stable 9.4 Freezing Point: -103°F = -75°C = 198.2°K 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 9.5 Critical Temperature: Currently not available 5.5 Polymerization: Not pertinent 9.6 Critical Pressure: Currently not available 1. CORRECTIVE RESPONSE ACTIONS 2. CHEMICAL DESIGNATIONS 5.6 Inhibitor of Polymerization: Not pertinent 9.7 Specific Gravity: 0.915 at 10°C (liquid) Dilute and dispers CG Compatibility Group: Not listed. Formula: C6H5CH2N(CH3)2 Stop discharge Contain Collection Systems: Skim Do not burn 9.8 Liquid Surface Tension: Currently not 2.2 2.3 2.4 IMO/UN Designation: 8/2619 DOT ID No.: 2619 CAS Registry No.: 103-83-3 NAERG Guide No.: 132 6. WATER POLLUTION 9.9 Liquid Water Interfacial Tension: Currently not available 6.1 Aquatic Toxicity: Currently not available 2.5 2.6 9.10 Vapor (Gas) Specific Gravity: 4.66 (est) 6.2 Waterfowl Toxicity: Currently not 2.7 Standard Industrial Trade Classification: 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 51129 available 6.3 Biological Oxygen Demand (BOD): 3. HEALTH HAZARDS 9.12 Latent Heat of Vaporization: Currently not Currently not available available 3.1 Personal Protective Equipment: Approved respirator; rubber gloves, splash proof goggles 6.4 Food Chain Concentration Potential: 9.13 Heat of Combustion: Currently not available 3.2 Symptoms Following Exposure: Inhalation may be fatal as a result of sparsm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomitting. None 6.5 GESAMP Hazard Profile: Not listed 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: Not pertinent 3.3 Treatment of Exposure: NIvFLATION: Remove victim to fresh air and call a physician at once; administer oxygen until physician arrives. INSESTION: Get medical attention at once. EVES or SKIN: Fush with plenty of water for at least 15 min; if cyanosis is present, shower with soap and warm water, with special attention to scalp and finger nails; remove any contaminated clothing. 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: Currently not available 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. NOTES 3.7 Toxicity by Ingestion: Grade 3; LD₅₀ = 265 mg/kg (rat) 3.8 Toxicity by Inhalation: Currently not available 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause severe irritation of eyes and throat and can cause eye and lung injury. They cannot be tolerated even at low concentrations. 3.11 Liquid or Solid Characteristics: Currently not available 3.12 Odor Threshold: Currently not available 3 13 IDI H 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

BENZYL DIMETHYLAMINE

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	57.120		C U R R E N T L Y N O T A V A I L A B L E		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVA-LABLE

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
	C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E	0 25 50 75 100 125 150 275 200 225 250 275 300 305 350 305 350 375 400 425 450 475 550 525 550 575 600	0.269 0.281 0.293 0.305 0.317 0.329 0.341 0.352 0.364 0.376 0.388 0.400 0.412 0.424 0.436 0.448 0.448 0.448 0.448 0.460 0.471 0.483 0.495 0.507 0.531 0.555