

DI-(2-ETHYLHEXYL) ADIPATE

DEH

CAUTIONARY RESPONSE INFORMATION

Common Synonyms Adipic acid, bis (2-ethylhexyl) ester Bis(2-ethylhexyl) adipate		Liquid Clear to straw colored Mild odor
Avoid contact with liquid and vapor. Wear rubber overclothing (including gloves). Notify local health and pollution control agencies.		Floats on water.
Fire	Combustible. Wear self-contained breathing apparatus and full protective clothing. Extinguish with dry chemical, water fog, carbon dioxide, or alcohol foam. Use water spray to cool exposed containers.	
Exposure	CALL FOR MEDICAL AID. LIQUID Move to fresh air. Wash affected areas with plenty of soap and water. IF IN EYES, hold eyelids open and flush with plenty of water.	
Water Pollution	Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.	

1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Clean shore line Salvage waterfowl	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 34; Esters 2.2 Formula: $C_{24}H_{42}O_4$ 2.3 IMO/UN Designation: Not listed. 2.4 DOT ID No.: Not listed. 2.5 CAS Registry No.: 103-23-1 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 51385
3. HEALTH HAZARDS 3.1 Personal Protective Equipment: Wear splash goggles, impervious apron, and impervious gloves. 3.2 Symptoms Following Exposure: Liquid may cause mild eye irritation. Repeated or prolonged skin contact may cause irritation. 3.3 Treatment of Exposure: Call for medical aid. SKIN: Wash with soap and water. Treat like lubricating oil. EYES: Flush with water for at least 15 mins., lifting lids occasionally. INHALATION: Remove to fresh air. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 1; LD ₅₀ = 5 to 15 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 or 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 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: 400°F O.C. 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Carbon dioxide, dry chemical, water fog, or alcohol foam. 4.4 Fire Extinguishing Agents Not to Be Used: Water. 4.5 Special Hazards of Combustion Products: Currently not available 4.6 Behavior in Fire: Use water spray to cool exposed containers. 4.7 Auto Ignition Temperature: Currently not available 4.8 Electrical Hazards: Currently not available 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichiometric Air to Fuel Ratio: 183.3 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 43.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	7. SHIPPING INFORMATION 7.1 Grades of Purity: 99.6%; Technical grades. 7.2 Storage Temperature: Ambient. 7.3 Inert Atmosphere: No requirement. 7.4 Venting: Not listed. 7.5 IMO Pollution Category: D 7.6 Ship Type: Data not available 7.7 Barge Hull Type: Currently not available								
5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction. 5.2 Reactivity with Common Materials: Avoid contact with strong oxidizers. 5.3 Stability During Transport: Stable. 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent. 5.5 Polymerization: Will not polymerize. 5.6 Inhibitor of Polymerization: Not pertinent.	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: <table border="1"> <tr> <td>Category</td> <td>Classification</td> </tr> <tr> <td>Health Hazard (Blue)</td> <td>0</td> </tr> <tr> <td>Flammability (Red)</td> <td>1</td> </tr> <tr> <td>Instability (Yellow)</td> <td>0</td> </tr> </table> 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	Category	Classification	Health Hazard (Blue)	0	Flammability (Red)	1	Instability (Yellow)	0
Category	Classification								
Health Hazard (Blue)	0								
Flammability (Red)	1								
Instability (Yellow)	0								
6. WATER POLLUTION 6.1 Aquatic Toxicity: Currently not available 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: None. 6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 0 Human Oral hazard: 0 Human Contact hazard: II Reduction of amenities: XX	9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 370.58 9.3 Boiling Point at 1 atm: Currently not available 9.4 Freezing Point: Currently not available 9.5 Critical Temperature: Currently not available 9.6 Critical Pressure: Currently not available 9.7 Specific Gravity: 0.923 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Currently not available 9.10 Vapor (Gas) Specific Gravity: 12.8 9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available 9.12 Latent Heat of Vaporization: Currently not available 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: 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								
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
77	7.700		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

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		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