

N-PROPYL ETHER

PRE

CAUTIONARY RESPONSE INFORMATION		
Common Synonyms Dipropyl ether Di-n-propyl ether	Liquid	Colorless Floats on water.
<p>Wear full impervious protective clothing and approved respirator. Shut off ignition sources and call fire department. Notify local health and pollution control agencies. Protect water intakes.</p>		
Fire	<p>Flammable. Vapors can flow to distant ignition source and flash back. Wear full protective clothing with self-contained breathing apparatus. Extinguish fire with dry chemical, alcohol foam, carbon dioxide. Use water spray to cool exposed containers.</p>	
Exposure	<p>CALL FOR MEDICAL AID.</p> <p>VAPOR Move victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.</p> <p>LIQUID Remove contaminated clothing and shoes. Wash affected areas with soap and water. IF IN EYES, hold eyelids open and flush with plenty of water.</p>	
Water Pollution	<p>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.</p>	

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS	3. HEALTH HAZARDS
Stop discharge Do not burn	<p>2.1 CG Compatibility Group: 41; Ethers 2.2 Formula: $(\text{CH}_3\text{CH}_2\text{CH}_2)_2\text{O}$ 2.3 IMO/UN Designation: Currently not available 2.4 DOT ID No.: 2384 2.5 CAS Registry No.: 111-43-3 2.6 NAERG Guide No.: 127 2.7 Standard Industrial Trade Classification: 51616</p>	<p>3.1 Personal Protective Equipment: Full impervious protective clothing, including boots and gloves. Where splashing is possible wear full face shield or chemical safety goggles. Use approved respirator to protect against vapors.</p> <p>3.2 Symptoms Following Exposure: Currently not available</p> <p>3.3 Treatment of Exposure: Get medical attention. INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. EYES: Flush with water for at least 15 min., lifting lids occasionally. SKIN: Remove contaminated clothing and shoes. Wash with soap and water.</p> <p>3.4 TLV-TWA: Not listed.</p> <p>3.5 TLV-STEL: Not listed.</p> <p>3.6 TLV-Ceiling: Not listed.</p> <p>3.7 Toxicity by Ingestion: Currently not available</p> <p>3.8 Toxicity by Inhalation: Currently not available.</p> <p>3.9 Chronic Toxicity: Currently not available</p> <p>3.10 Vapor (Gas) Irritant Characteristics: Currently not available</p> <p>3.11 Liquid or Solid Characteristics: Currently not available</p> <p>3.12 Odor Threshold: Currently not available</p> <p>3.13 IDLH Value: Not listed.</p> <p>3.14 OSHA PEL-TWA: Not listed.</p> <p>3.15 OSHA PEL-STEL: Not listed.</p> <p>3.16 OSHA PEL-Ceiling: Not listed.</p> <p>3.17 EPA A EGL: Not listed</p>

4. FIRE HAZARDS	7. SHIPPING INFORMATION								
4.1 Flash Point: 70°F O.C. 4.2 Flammable Limits in Air: 1.3 - 7.0% 4.3 Fire Extinguishing Agents: Dry chemical, alcohol foam, or carbon dioxide. 4.4 Fire Extinguishing Agents Not to Be Used: Water.	7.1 Grades of Purity: 99%; technical. 7.2 Storage Temperature: Ambient. 7.3 Inert Atmosphere: No requirement. 7.4 Venting: Not listed. 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: 3								
8. HAZARD CLASSIFICATIONS									
8.1 49 CFR Category: Flammable liquid 8.2 49 CFR Class: 3 8.3 49 CFR Package Group: II 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification:	<table border="0"> <tr> <td>Category</td><td>Classification</td></tr> <tr> <td>Health Hazard (Blue).....</td><td>1</td></tr> <tr> <td>Flammability (Red).....</td><td>3</td></tr> <tr> <td>Instability (Yellow).....</td><td>0</td></tr> </table>	Category	Classification	Health Hazard (Blue).....	1	Flammability (Red).....	3	Instability (Yellow).....	0
Category	Classification								
Health Hazard (Blue).....	1								
Flammability (Red).....	3								
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 FWCNA List: Not listed									
9. PHYSICAL & CHEMICAL PROPERTIES									
9.1 Physical State at 15°C and 1 atm: Liquid 9.2 Molecular Weight: 102.17 9.3 Boiling Point at 1 atm: 192 - 196°F = 89 - 91°C = 362 - 364°K 9.4 Freezing Point: -187.6°F = -122°C = 151°K 9.5 Critical Temperature: Currently not available 9.6 Critical Pressure: Currently not available 9.7 Specific Gravity: 0.7360 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Currently not available 9.10 Vapor (Gas) Specific Gravity: Currently not available 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
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		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
C U R R E N T L Y N O T A V A I L A B L E		68	1.064	68	0.01918		C U R R E N T L Y N O T A V A I L A B L E