ETHYL ETHER

0				Ourset : los		
Common Syno Anesthesia ether Anesthetic ether Diethyl ether Diethyl oxide Ether Ethoxyethane	nyms	Watery liquid Coloriess Sweet odor Floats on water. Flammable, irritating vapor is produced. Boiling point is 94°F.				
Evacuate. Keep peop Avoid inhal Wear gogg Shut off igr Stay upwin Notify local Protect wa	le away. Avoid ation. les and self-co ition sources a d and use wate health and po ter intakes.	I contact with liquid ntained breathing ap ind call fire departm er spray to ``knock d lution control agenci	and vapor. oparatus. ent. own" vapor. es.			
Fire	FLAMMABLE. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Wear gogles and self-contained breathing apparatus. Extinguish with dry chemical, foam, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.					
Exposure	CALL FOR MEDICAL AID. VAPOR Irritating to eyes, nose and throat. If inhaled, will cause nausea, vormiting, headache, or loss of consciousness. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID LIQUID LITITATING to skin. Harmful if swallowed. Remove contaminated clothing and shoes. Flush alfected 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 May be dang Notify local I Notify opera	concentrations on a gerous if it enters wa lealth and wildlife of tors of nearby water	aquatic life is unknown. tter intakes. iicials. · intakes.			
Dilute and disperse Stop discharge			2. CHEMICAI 2.1 CG Compatibil 2.2 Formula: C:H4 2.3 IMO/UN Design 2.4 DOT ID No.: 11 2.5 CAS Registry 1 2.6 NAERG Guide 2.7 Standard Indu: 51616	L DESIGNATIONS ity Group: 41; Ether OCarls tation: 3.1/1155 55 00: 60-29-7 No.: 127 strial Trade Classification:		
 HEALTH HAZARDS 1. Personal Protective Equipment: Approved organic vapor canister mask; chemical goggles; synthetic nubber or plastic gloves. Symptoms Following Exposure: Vapor inhalation may cause headache, nausea, vomiting, and loss of consciousness. Contact with eyes will be irritating. Skin contact from clothing wet with the chemical may cause burns. Treatment of Exposure: INHALATION: remove victim to fresh air; if breathing has stopped, apply artificial respiration; if breathing is irregular, give oxygen; call a physician. EYES: flush immediately with water for 15 min. TLV-TWA: 400 ppm Tu-V-STEL: Not listed. Tu-V-STEL: Not listed. Tu-V-STEL: Not listed. Tu-Yosi (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary. 11 Quard or Solid Characteristics: No appreciable hazard. Practically harmless to the skin because it is very volatile and evaporates quickly. Odor Threshold: 0.83 ppm Sto SHA PEL-TWA: 400 ppm Sto SHA PEL-TWA: 400 ppm Sto SHA PEL-TWA: 400 ppm Sto Pel-STEL: Not listed. Other Pel-STEL: Not listed. Other Pel-STEL: Not listed. Other Step provide the eyes of the skin because it is very volatile and evaporates quickly. Other Pel-TWA: 400 ppm Sto SHA PEL-Ceiling: Not listed. PEA AEGL: Not listed. 						

 4. FIRE HAZARDS 4. FIRE HAZARDS 4. FIRE ADDARDS 4. FIRE ADDARDS 4. FIRE ADDARDS 4. FIRE ADDARDS 5. Secial Hazards of Combustion Products: Not pertinent 4. Special Hazards of Combustion Products: Not pertinent 4. Behavior in Fire: Yapor is heavier than 4. Behavior of lipition and flash back Descomposes violently when heated. 4. A tuto Ignition Temperature: S66°F 4. Beteritorie Flame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: 28.6 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion MOCR: Not Ratio (Reactant to Product): 9.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCR: No dilent: 10.3-10.5%; CO: diluent: 13.0% 5. CHEMICAL REACTIVITY 5. Reactivity with Water: No reaction for Combustion (MOCR: No diluent: 10.3-10.5%; CO: diluent: 13.0% 5. CHEMICAL REACTIVITY 5. Reactivity with Water: No reaction for Combustion (MOCR: No diluent: 10.3-10.5%; CO: diluent: 13.0% 5. CHEMICAL REACTIVITY 5. Reactivity with Water: No reaction for Combustion (MOCR: No diluent: 10.3-10.5%; CO: diluent: 13.0% 5. CHEMICAL REACTIVITY 5. Reactivity with Water: No reaction for Combustion (MOCR: No diluent: 10.3-10.5%; CO: diluent:
 4.1 Flash Point: -40°F O.C. :-49°F C.C. 4.2 Flammable Limits in Air: 1.85%-36.5% 4.3 Fire Extinguishing Agents: Dry chemical, carbon dioxide or foam 4.4 Fire Extinguishing Agents: Dry chemical, carbon dioxide or foam 4.4 Fire Extinguishing Agents: Dry chemical, carbon dioxide or foam 4.5 Special Hazards: Ocombustion products: Not pertinent 4.6 Behavior in Fire: Vapor is heavier than air and may travel considerable distance to a source of ignition and flash back. Decomposes violently when heated. 4.7 Auto Ignition Temperature: 306°F 4.8 Electrical Hazards: Orgen C 4.9 Eurning Rate: 6.7 mm/min. 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: 28.6 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 9.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): N. diluent: 10.3- 10.5% Co2 diuent: 13.0% 5. CHEMICAL REACTIVITY 5. CHEMICAL REACTIVITY 5. Reactivity with Wate: No reaction 5. Reactivity with Wate: No reaction 5. Reactivity with Wate: No reaction 5. Reactivity with Common Materials: No reaction 5. MATER POLLUTION 6.1 Aquatic Toxicity: Currently not available 6.4 Food Chain Concentration Potentiat: None 6.5 GESAMP Hazard Profile: Not listed 9.1 Physical State at 15° C and 1 atm: Lie 9.1 Physical State at 15° C and 1 atm: Lie 9.2 Molecular Weight: 74.12 9.3 Boiling Point: 1 atm: 24.3°F = 34.6°T 9.1 Gravity: 0.714 at 20°C (liquid) 8.1 Liquid Surface Tension: 17.0 dynes/G 9.1 Gravity: 0.714 at 20°C (liquid) 8.1 Liquid Surface Tension: 10.0 dynes/G 9.1 Liquid Water Interfacial Tension: Not perinent 9.1 Petrice of Solution: Not pertinent 9.10 Haet of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent
 :-49°F C.C. 24.2 Flammable Limits in Air: 1.85%-36.5% 4.3 Fire Extinguishing Agents: Dry chemical, carbon dioxide of foam 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent 4.6 Behavior in Fire: Vapor is heavier than air and may travel considerable distance to a source of ipultion and flash back. Decomposes violently when heated. 4.7 Auto Ignition Temperature: 36°F 4.8 Electrical Hazards: G1 Fiame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: 28.6 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 9.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): N. diluent: 10.3-10.5%; C.C. diluent: 13.0% 5. CHEMICAL REACTIVITY 5. Reactivity with Water: No reaction 5. CHEMICAL REACTIVITY 6. WATER POLLUTION 6.1 Aquati Toxicity: Currently not available 6.4 Noutralizing Agents for Acids and Caustifies: Not pertinent 6.5 GESAMP Hazard Profile: Not listed 9.1 Physical State at 15° C and 1 atm: Lie 9.2 Molecular Weight: 74.12 9.3 Boiling Point: -177.3°F = -116.3°C at 60.7% 9.4 Freezing Point: -177.3°F = -116.3°C at 60.7% 9.5 Critical Temperature: 380.3°F = 133.5 d46.7% 9.6 Critical Pressure: 527 psia = 35.9 atm MNm² 9.1 Ratio of Specific Gravity: 2.6 9.1 I Ratio of Specific Gravity: 2.6 9.1 I Ratio of Specific Gravity: 2.6 9.1 I Ratio of Specific Gravity: 2.6 9.1 Ratio of Specific Gravity: 2.6 9.1 Ratio of Specific Gravity: 2.6 9.1 Ratio of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not per
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 4.6 Behavior in Fire: Vapor is heavier than air and may travel considerable distance to a source of ignition and flash back. Decomposes violently when heated. 4.7 Auto Ignition Temperature: 356°F 4.8 Electrical Hazards: Class I, group C 4.9 Burning Rate: 6.7 mm/min. 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: 28.6 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 9.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): № diluent: 10.3-10.5%; CO2 diluent: 13.0% 5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Water: No reaction 5.3 Chemical Reaction: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 6.1 Aquatic Toxicity: Currently not available 4.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 8.1 49 CFR Category: Flammable liquid 8.2 49 CFR Class: 3 8.3 49 CFR Package Group: I 8.4 Marine Pollutant: No 8.5 Inhibitor of Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 6.1 Aquatic Toxicity: Currently not available 6.2 Waterford Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): 3%, 5 days 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Gravity: 2.6 9.11 Ratio of Specific Gravity: 2.6 9.12 Latent Heat of Vaporization: 14,550 Btu/lo: -8082 caig g = -338.4 X 10⁵ J/kg 9.14 Heat of Combustion: Not pertinent 9.15 Heat of Solution: Not pertinent 9.16 Heat of Polyme
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 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 9.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Ne diluent: 10.3-10.5%; CO2 diluent: 13.0% 5. CHEMICAL REACTIVITY 5.1 Reactivity with Common Materials: 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 Waterfowd Toxicity: Currently not available 6.5 GESAMP Hazard Profile: Not listed 9.1 Physical State of Solution: -14,550 Btu/lb - 8082 cal/g = -336.4 X 10⁶ J/kg 9.1 Hazior of Solution: Not pertinent 9.1 Aquatic Toxicity: 0.114 at 20°C (liquid) 9.2 Liquid Water Interfacial Tension: 10 dynes/a 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Gravity: 2.6 9.14 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 4.13 Combustion Molar Ratio (Reactant to Product): 9.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Nc diluent: 10.3-10.5%; CO2 diluent: 13.0% 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 Waterfowd Toxicity: Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 8.6 EPA Reportable Quantity: 100 pounds 8.7 EPA Follution Category: B 8.8 RCRA Waste Number: U117 8.9 EPA FWPCA List: Not listed 9.1 Physical State at 15° C and 1 atm: Lie 9.2 Molecular Weight: 74.12 9.3 Boiling Point at 1 atm: 94.3°F = 34.6°C 307.8°K 9.4 Freezing Point: -177.3°F = -116.3°C = 156.9°K 9.5 Critical Temperature: 380.3°F = 193.5 466.7°K 9.6 Critical Temperature: 380.3°F = 193.5 466.7°K 9.6 Liquid Surface Tension: 17.0 dynes/co.0.0170 Nm at 20°C 9.1 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Gravity: 2.6 9.13 Heat of Combustion: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 Product): 9.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Ne diluent: 10.3- 10.5%; CO2 diluent: 13.0% 5. CHEMICAL REACTIVITY 5.1 Reactivity with Vater: 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 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 8.7 EPA Follution Category: B 8.8 RCRA Waste Number: U117 8.9 EPA FWPCA List: Not listed 8.9 EPA FWPCA List: Not listed 8.1 Physical State at 15° C and 1 atm: Lic 9.1 Physical State at 15° C and 1 atm: Lic 9.2 Molecular Weight: 74.12 9.3 Boiling Point at 1 atm: 94.3°F = 34.6° 307.8°K 9.4 Freezing Point: -177.3°F = -116.3°C = 156.9°K 9.5 Critical Temperature: 380.3°F = 193.5 46.6.7°K 9.6 Critical Pressure: 527 psia = 35.9 atm MN/m² 9.7 Specific Gravity: 0.714 at 20°C (liquid) 9.8 Liquid Surface Tension: 17.0 dynes/co 0.0170 N/m at 20°C 9.9 Liquid Surface Tension: 17.0 dynes/co 0.0170 N/m at 20°C 9.11 Ratio of Specific Gravity: 2.6 9.11 Ratio of Specific Gravity: 2.6 9.14 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 Combustion (MOCC): Na diluent: 10.3- 10.5%, CO2 diluent: 13.0% B2 RCRA Waste Number: 0117 B3 BCRA Waste Number: 0117 B2 PA FWPCA List: Not listed CHEMICAL REACTIVITY Reactivity with Common Materials: No reaction Reactivity with Common Materials: No reaction Stability During Transport: Stable A Neutralizing Agents for Acids and Caustics: Not pertinent So Polymerization: Not pertinent Folymerization: Not pertinent A quatic Toxicity: Currently not available Waterfowd Toxicity: Currently not available Food Chain Concentration Potential: None Get SAMP Hazard Profile: Not listed Set SAMP Hazard Profile: Not listed Heat of Solution: Not pertinent Heat of Composition: Not pertinent Heat of Polymerization: Not pertinent
 10.5 %, CO2 dildent. 13.0 % CHEMICAL REACTIVITY S. CHEMICAL REACTIVITY S. Reactivity with Common Materials: No reaction S. Reactivity with Common Materials: No reaction S. Stability During Transport: Stable S. Neutralizing Agents for Acids and Caustics: Not pertinent S. Polymerization: Not pertinent S. Polymerization: Not pertinent S. MATER POLLUTION A quatic Toxicity: Currently not available Stabiloigical Oxygen Demand (BOD): 3%, 5 days Food Chain Concentration Potential: None S. GESAMP Hazard Profile: Not listed S. GESAMP Hazard Profile: Not listed Heat of Composition: Not pertinent Heat of Polymerization: Not pertinent Reid Vapor Pressure: 16.0 psia
 5. CHEMICAL REACTIVITY 5. CHEMICAL REACTIVITY 5. Reactivity with Vater: 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 Waterfowd Toxicity: Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 9.1 Physical State at 15° C and 1 atm: Lie PROPERTIES 9.1 Physical State at 15° C and 1 atm: Lie 9.3 Boiling Point at 1 atm: 94.3°F = 34.6°C 307.8°K 9.4 Freezing Point: -177.3°F = -116.3°C = 156.9°K 9.5 Critical Temperature: 380.3°F = 193.5 466.7°K 9.6 Critical Temperature: 380.3°F = 193.5 466.7°K 9.6 Critical Pressure: 527 psia = 35.9 atm MN/m² 9.7 Specific Gravity: 0.714 at 20°C (liquid) 9.8 Liquid Surface Tension: 17.0 dynes/co.0.0170 Nm at 20°C 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Gravity: 2.6 9.13 Heat of Combustion: -14,550 Btu/b - 8082 ca/g = -338.4 X 10⁹ J/kg 9.14 Heat of Polymerization: Not pertinent 9.15 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 ca/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 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 Waterow Toxicity: Currently not available 6.2 Waterow Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): 3%, 5 days 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 9.1 Physical State at 15° C and 1 atm: Lic 9.2 Molecular Weight: 74.12 9.3 Boiling Point at 1 atm: 94.3°F = 34.6°C 307.8°K 9.4 Freezing Point: -177.3°F = -116.3°C = 156.9°K 9.5 Critical Temperature: 380.3°F = 193.5 466.7°K 9.6 Critical Pressure: 527 psia = 35.9 atm MNm² 9.7 Specific Gravity: 0.714 at 20°C (liquid) 9.8 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Gravity: 2.6 9.13 Heat of Combustion: -14,550 Btu/lb - 8082 ca/g = -338.4 X 10⁵ J/kg 9.14 Heat of Documposition: Not pertinent 9.15 Heat of Solution: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 ca/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 3.3 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 available 6.3 Biological Oxygen Demand (BOD): 3%, 5 days 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 9.6 Critical Tension: Not pertinent 9.1 Ratio of Specific Gravity: 2.6 9.11 Ratio of Specific Heats of Vaporization: 103 blur/b -8.062 cal/g = -336.4 X 10⁶ J/kg 9.13 Heat of Compusition: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.18 Limiting Value: Currently not available 9.13 Heat of Solution: Not pertinent 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: Not pertinent 9.16 Heat of Solution: Not pertinent 9.17 Heat of Folymerization: Not pertinent 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 5.5 Polymerization: Not pertinent 6.4 Nutter POLLUTION 6.1 Aquatic Toxicity: Currently not available 6.2 Waterow Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): 3%, 5 days 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 9.6 Gestamp Hazard Profile: Not listed 9.7 Carbon Jone Profile: Not listed 9.8 Boiling Point at 1 atm: 94.3°F = 34.6°G 307.8°K 9.4 Freezing Point: -177.3°F = -116.3°C = 156.9°K 9.5 Critical Temperature: 380.3°F = 193.5 466.7°K 9.6 Critical Pressure: 527 psia = 35.9 atm MNm² 9.7 Specific Gravity: 0.714 at 20°C (liquid) 9.8 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Gravity: 2.6 9.13 Heat of Combustion: -14,550 Btu/lb -8082 ca/g = -338.4 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 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 ca/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
Caustics: Not pertinent 30.3 ° K Caustics: Not pertinent 30.3 ° K 5.5 Polymerization: Not pertinent 46.7 °K 6. WATER POLLUTION 9.5 Critical Temperature: 380.3 °F = 193.5 466.7 °K 6.1 Aquatic Toxicity: Currently not available 9.6 Critical Temperature: 380.3 °F = 193.5 466.7 °K 9.2 Water/owl Toxicity: Currently not available 9.6 Critical Pressure: 527 psia = 35.9 atm MNm ² 6.3 Biological Oxygen Demand (BOD): 3%, 5 days 9.8 Liquid Surface Tension: 17.0 dynes/ci 0.0170 Nm at 20°C 6.4 Food Chain Concentration Potential: None 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Heats of Vapor (Gas) 9.13 Heat of Combustion: -14,550 Btu/b - -8082 cal/g = -338.4 X 10 ⁵ J/kg 9.14 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.15 Heat of Solution: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 6.1 Aquatic Toxicity: Currently not available 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): 3%, 5 days 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 9.6 Critical Pressure: 527 psia = 35.9 atm MNm² 9.7 Specific Gravity: 0.714 at 20°C (liquid) 9.8 Liquid Surface Tension: 17.0 dynes/ci 0.0170 Nm at 20°C 9.1 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Heats of Vapor (Gat 1.081 9.12 Latent Heat of Vaporization: 14,550 Btu/lb -8082 cal/g = -338.4 X 10⁵ J/kg 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Folution: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 6.3 Contract temperature: 380.3 F ≡ 193.5 466.7 K 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 9.6 Contract Temperature: 380.3 F ≡ 193.5 466.7 K 9.6 Critical Pressure: 527 psia = 35.9 atm MNm² 9.7 Specific Gravity: 0.714 at 20°C (liquid) 9.8 Liquid Surface Tension: 17.0 dynes/ci 0.0170 Nm at 20°C 9.1 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Gravity: 2.6 9.12 Latent Heat of Vaporization: 14,550 Btu/lb - 8082 ca/g = -338.4 X 10⁵ J/kg 9.14 Heat of Polymerization: Not pertinent 9.15 Heat of Solution: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 ca/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
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 6.1 Aquatic Toxicity: Currently not available 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): 3%, 5 days 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 9.1 Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Heats of Vapor (Ga 1.081 9.12 Latent Heat of Vaporization: 14,550 Btu/lb -8082 cal/g = -338.4 X 10⁵ J/kg 9.14 Heat of Decomposition: Not pertinent 9.16 Heat of Folumion: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): 3%, 5 days 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 9.8 Liquid Surface Tension: 17.0 dynes/ci 0.0170 N/mat 20°C 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Heats of Vapor (Gat 1.081) 9.12 Latent Heat of Vaporization: 14,550 Btu/lb -8082 cal/g = -338.4 X 10⁵ J/kg 9.13 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 available 6.3 Biological Oxygen Demand (BOD): 3%, 5 days 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Heats of Vapor (Ga 1.081 9.12 Latent Heat of Vaporization: 153 Btu 84.9 cal/g = 3.56 X 10⁵ J/kg 9.13 Heat of Combustion: -14,550 Btu/lb -8082 cal/g = -38.4 X 10⁵ J/kg 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: Not pertinent 9.16 Heat of Solution: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 5 days 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 9.10 Vapor (Gas) Specific Gravity: 2.6 9.11 Ratio of Specific Heats of Vapor (Ga 1.081 9.12 Latent Heat of Vaporization: 153 Btu 84.9 cat/g = 3.56 × 10⁵ J/kg 9.13 Heat of Combustion: -14,550 Btu/b -8082 cat/g = -38.4 × 10⁵ J/kg 9.14 Heat of Decomposition: Not pertinent 9.16 Heat of Solution: Not pertinent 9.17 Heat of Fusion: 23.45 cat/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 None 6.5 GESAMP Hazard Profile: Not listed 9.10 Ratio of Specific Heats of Vapor (Ga 1.081 9.11 Ratio of Specific Heats of Vapor (Ga 1.081 9.12 Latent Heat of Vaporization: 153 Btu 84.9 ead/g = 3.56 X 105 J/kg 9.13 Heat of Combustion: -14,550 Btu/b = -8082 cal/g = -384 X 10⁵ J/kg 9.14 Heat of Decomposition: Not pertinent 9.16 Heat of Solution: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 6.5 GESAMP Hazard Profile: Not listed 1.081 9.12 Latent Heat of Vaporization: 153 Btu 84.9 cal/g = 3.56 X 10⁵ J/kg 9.13 Heat of Combustion: -14,550 Btu/b = -8082 cal/g = -338.4 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: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 9.12 Latent Heat of Vaporization: 153 bit 84.9.ea(g) = 3.56 X 10³ /kg 9.13 Heat of Combustion: -14,550 Btu/b: -8082 cal/g = -338.4 X 10³ /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: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 9.13 Heat of Combustion: -14,550 Blu/b: -8082 cal/g = -338.4 × 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: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
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: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
 9.15 Heat of Solution: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 23.45 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 16.0 psia
9.19 Reid Vapor Pressure: 16.0 psia
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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
-110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90	51.170 50.820 50.460 50.100 49.740 49.370 49.010 48.640 48.270 47.530 47.150 46.780 46.400 46.020 45.640 45.250 44.870 44.870 44.480 44.090 43.700	35 40 45 50 55 60 65 70 75 80 85 90	0.523 0.528 0.533 0.543 0.544 0.558 0.558 0.568 0.568 0.568 0.573 0.578	-80 -70 -60 -50 -40 -30 -10 10 20 30 40 50 60 70 80	1.141 1.125 1.109 1.093 1.077 1.061 1.044 1.028 1.012 0.996 0.980 0.964 0.948 0.931 0.915 0.883	-35 -30 -25 -20 -15 -10 5 10 15 20 25 30 35 40 45 55 60 65 70 75 80 85 90	0.445 0.428 0.412 0.397 0.383 0.370 0.358 0.346 0.335 0.324 0.314 0.305 0.296 0.287 0.279 0.271 0.264 0.257 0.250 0.243 0.237 0.231 0.226 0.220 0.221 0.210

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
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 84	12.790 12.480 12.470 11.860 11.550 11.240 10.930 10.610 10.300 9.992 9.6881 9.681 9.687 9.679 8.748 8.437 8.126 7.815 7.503 7.192 6.881 6.570 6.881 6.570 6.259 5.948 5.637 5.326 5.015	-70 -60 -50 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140	0.112 0.170 0.252 0.366 0.524 0.738 1.023 1.398 1.885 2.510 3.304 4.302 5.543 7.072 8.942 11.210 13.930 17.190 21.040 25.590 30.910 37.100	-70 -60 -50 -30 -20 -10 0 10 20 30 40 50 70 80 90 100 110 120 130 140	0.00199 0.00293 0.00424 0.00603 0.00842 0.01159 0.02099 0.02771 0.03613 0.04659 0.05944 0.07509 0.03977 0.11660 0.14340 0.17500 0.225510 0.36190 0.36190 0.42710	0 25 50 75 100 125 150 275 200 225 250 275 300 325 350 325 350 375 400 425 450 475 550 525 550 575 600	0.327 0.339 0.350 0.362 0.373 0.385 0.396 0.407 0.419 0.430 0.441 0.452 0.463 0.441 0.452 0.463 0.474 0.484 0.495 0.506 0.517 0.527 0.538 0.548 0.558 0.559 0.589