TERT-BUTYL HYDROPEROXIDE

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: 100°F O.C.	7.1 Grades of Purity: 70-90%
4.2 Flammable Limits in Air: Not pertinent	7.2 Storage Temperature: 65-85°F
chemical, foam or carbon dioxide.	7.3 Inert Atmosphere: Currently not available
4.4 Fire Extinguishing Agents Not to Be	7.5 IMO Pollution Category: Currently not available
Used: Not pertinent	7.6 Ship Type: Currently not available
Products: Not pertinent	7.7 Barge Hull Type: Currently not available
4.6 Behavior in Fire: May explode in fire	
4.7 Auto Ignition Temperature: Not pertinent	8. HAZARD CLASSIFICATIONS
4.8 Electrical Hazards: Not pertinent	8.1 49 CFR Category: Forbidden
4.9 Burning Rate: Not pertinent	8.2 49 CFR Class: Not pertinent
not available	8.3 49 CFR Package Group: Not listed.
4.11 Stoichometric Air to Fuel Ratio: 26.2	8.4 Marine Pollutant: No
(calc.)	8.5 NFPA Hazard Classification:
available	Category Classification Health Hazard (Blue) 1
4.13 Combustion Molar Ratio (Reactant to	Flammability (Red) 4
Product): 9.0 (calc.)	Instability (Yellow) 4
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	Special (White) OX
	8.6 EPA Reportable Quantity: Not listed.
5. CHEMICAL REACTIVITY	8.7 EPA Pollution Category: Not listed.
5.1 Reactivity with Water: No reaction	8.8 RCRA Waste Number: Not listed
5.2 Reactivity with Common Materials:	8.9 EPA FWPCA List: Not listed
Reacts vigorously with easily oxidized	
materials, including wood and some metals.	9. PHYSICAL & CHEMICAL PROPERTIES
5.3 Stability During Transport: Shock and	
decomposition at 200°F.	9.1 Physical State at 15° C and 1 atm: Liquid
5.4 Neutralizing Agents for Acids and	9.2 Molecular Weight: 90.12
Caustics: Not pertinent	9.5 Bolling Folint at 1 atm. Decomposes
5.5 Polymerization: Not pertinent	9.5 Critical Temperature: Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent	9.6 Critical Pressure: Not pertinent
6. WATER POLLUTION	9.7 Specific Gravity: 0.880 at 25°C (liquid)
	9.8 Liquid Surface Tension: Currently not
6.1 Aquatic Toxicity: Currently not available	available
6.2 Waterfowl Toxicity: Currently not	9.9 Liquid Water Interfacial Tension: Currently
available	9.10 Vapor (Gas) Specific Gravity: Not pertine
6.3 Biological Oxygen Demand (BOD): Currently not available	9.11 Ratio of Specific Heats of Vapor (Gas):
6.4 Food Chain Concentration Potential:	Not pertinent
None	9.12 Latent Heat of Vaporization: Not pertinen
6.5 GESAMP Hazard Profile: Not listed	9.13 Heat of Combustion: (est.) -13,000 Btu/l = -7200 cal/g = -300 X 10 ⁵ J/kg
	9.14 Heat of Decomposition: -675 Btu/lb =
	-375 cal/g = -15.7 X 10 ⁵ J/kg
	9.15 Heat of Solution: Not pertinent
	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
NOT	ES

TERT-BUTYL HYDROPEROXIDE

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
52 54 56 58 60 62 64 66 68 70 72 74 74 76 80 82 84 86	55.800 55.730 55.660 55.520 55.450 55.380 55.310 55.240 55.170 55.170 55.100 55.170 55.170 55.4900 54.970 54.830 54.620	85 90 95 100 115 120 125 130 135 140 145 150	0.585 0.591 0.603 0.610 0.616 0.622 0.628 0.635 0.641 0.641 0.647 0.653 0.660 0.666	32 34 36 38 40 42 44 46 48 50 52 54 56 60 62 64 66 68 70	1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179 1.179	77	7.000

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
68	8.000	32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70	0.019 0.021 0.024 0.028 0.032 0.036 0.041 0.054 0.069 0.078 0.069 0.078 0.089 0.101 0.114 0.129 0.145 0.164 0.185 0.208	32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 66 68 70	0.00032 0.00036 0.00041 0.00053 0.00069 0.00069 0.00078 0.00089 0.00113 0.00128 0.00145 0.00145 0.00163 0.00163 0.00207 0.00227 0.00220 0.00294 0.00330		N O T P E R T I N E N T