ISOBUTYRONITRILE

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FIRE HAZARDS	7. SHIPPING INFORMATION
nt: 47°F C.C.	7.1 Grades of Purity: Technical; Pure
e Limits in Air: Currently not	7.2 Storage Temperature: Ambient
	7.3 Inert Atmosphere: No requirement
guishing Agents: Dry , foam, carbon dioxide	7.4 Venting: Open
	7.5 IMO Pollution Category: Currently not availab
guishing Agents Not to Be ater may be ineffective.	7.6 Ship Type: Currently not available
azards of Combustion	7.7 Barge Hull Type: Currently not available
s: Toxic oxides of nitrogen may	
re.	8. HAZARD CLASSIFICATIONS
in Fire: Currently not available	8.1 49 CFR Category: Flammable liquid
tion Temperature: Currently not	8.2 49 CFR Class: 3
Hazards: Currently not	8.3 49 CFR Package Group: II
	8.4 Marine Pollutant: No
Rate: Currently not available	8.5 NFPA Hazard Classification: Not listed
Flame Temperature: Currently	8.6 EPA Reportable Quantity: Not listed.
able	8.7 EPA Pollution Category: Not listed.
netric Air to Fuel Ratio: 32.1	8.8 RCRA Waste Number: Not listed
mperature: Currently not	8.9 EPA FWPCA List: Not listed
inperature. Currently not	
ion Molar Ratio (Reactant to): 8.5 (calc.)	9. PHYSICAL & CHEMICAL PROPERTIES
Oxygen Concentration for	9.1 Physical State at 15° C and 1 atm: Liquid
tion (MOCC): Not listed	9.2 Molecular Weight: 69.1
EMICAL REACTIVITY	9.3 Boiling Point at 1 atm: 219°F = 104°C = 377°K
	9.4 Freezing Point: Not pertinent
with Water: No reaction with Common Materials:	9.5 Critical Temperature: Currently not available
not available	9.6 Critical Pressure: Currently not available
During Transport: Stable	9.7 Specific Gravity: 0.774 at 20°C (liquid)
ng Agents for Acids and	9.8 Liquid Surface Tension: 24.9 dynes/cm =
: Not pertinent	0.0249 N/m at 20°C
ation: Not pertinent	9.9 Liquid Water Interfacial Tension: Currently
of Polymerization: Not pertinent	not available
	9.10 Vapor (Gas) Specific Gravity: 2.4
ATER POLLUTION	9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
oxicity:	9.12 Latent Heat of Vaporization: 200 Btu/lb =
not available	110 cal/g = 4.7 X 10 ⁵ J/kg
I Toxicity: Currently not	9.13 Heat of Combustion: -14,960 Btu/lb = -8,310 cal/g = -348 X 10 ⁵ J/kg
I Oxygen Demand (BOD):	
not available	9.14 Heat of Decomposition: Not pertinent9.15 Heat of Solution: Not pertinent
in Concentration Potential:	9.16 Heat of Polymerization: Not pertinent
Useed Profile.	9.17 Heat of Fusion: Currently not available
Hazard Profile: nulation: 0	-
to living resources: -	9.18 Limiting Value: Currently not available
oral hazard: 3	9.19 Reid Vapor Pressure: Currently not available
contact hazard: II n of amenities: XXX	
NOTES	3

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9.20 SATURATED LIQUID DENSITY		9. LIQUID HEA	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	
67	48.250		N O T E R T I N E N T		N O T P E R T T T	52 54 56 58 60 62 64 66 68 70 72 74 74 76 88 80 82 84 86	0.581 0.573 0.564 0.556 0.548 0.540 0.532 0.524 0.517 0.510 0.502 0.489 0.489 0.482 0.475 0.469 0.463 0.457	

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	125 130 135 140 145 150 165 170 175 180 185 190 195 200 205 210 215 220	1.697 1.936 2.204 2.504 2.504 3.211 3.625 4.084 4.593 5.155 5.777 6.461 7.214 8.044 8.948 9.941 11.030 12.210 13.500 14.910	125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220	0.01868 0.02114 0.02386 0.02688 0.03021 0.03390 0.04242 0.04733 0.05270 0.05859 0.06502 0.07203 0.07967 0.08798 0.08700 0.10680 0.11740 0.12890 0.14120		N O T P E R T I N E N T