## **XYLENOL**

7. SHIPPING INFORMATION

7.1 Grades of Purity: 99% 2, 6-Xylenol. Other commercial Xylenols include 2, 3-; 2, 4-; 2, 5-; 3, 4-; 3, 5-; and various mixtures of these. Properties are similar to those of the 2, 6compound.

7.2 Storage Temperature: Ambient

7.4 Venting: Open (flame arrester)7.5 IMO Pollution Category: B

8.1 49 CFR Category: Poison

8.3 49 CFR Package Group: II8.4 Marine Pollutant: Yes

8.5 NFPA Hazard Classification:

8.7 EPA Pollution Category: C

8.9 EPA FWPCA List: Yes

9.2 Molecular Weight: 122.2

8.2 49 CFR Class: 6.1

7.6 Ship Type: 3

7.3 Inert Atmosphere: No requirement

7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

8.6 EPA Reportable Quantity: 1,000 pounds

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State at 15° C and 1 atm: Solid or liquid

**9.3 Boiling Point at 1 atm:** 413°F = 212°C = 485°K

**9.4 Freezing Point:** -40 to +106°F = -40 to +45°C = 233 to 318°K

9.8 Liquid Surface Tension: (est.) 30 dynes/cm = 0.030 N/m at 30°C

9.9 Liquid Water Interfacial Tension: (est.) 25 dynes/cm = 0.025 N/m at 25°C

 $9.11 \ \, Ratio \ \, of \ \, Specific \ \, Heats \ \, of \ \, Vapor \ \, (Gas): \\ Not \ \, pertinent \\ 9.12 \ \, Latent \ \, Heat \ \, of \ \, Vaporization: \ \ 212.74 \ \, Btu/lb \\ = 118.19 \ \, cal'g = 4.9451 \ \, X \ 10^5 \ \, J/kg \ \, at \ \, 25^\circ C$ 

9.13 Heat of Combustion: -15,310 Btu/b = -8,500 Cat/g = -356 X 10<sup>5</sup> 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: Currently not available
9.18 Limiting Value: Currently not available
9.19 Reid Vapor Pressure: Currently not

available

NOTES

9.10 Vapor (Gas) Specific Gravity: Not pertinent

9.5 Critical Temperature: Not pertinent

9.6 Critical Pressure: Not pertinent9.7 Specific Gravity: 1.01 at 20°C (liquid)

2

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Flammability (Red).....

Instability (Yellow).....

8.8 RCRA Waste Number: Not listed

(		ARY RESPO	NSE INFORMATION	N	4. FIRE HAZARDS	
Common Synonyms Cresylic acid Dimethylphenol 2-Hydroxy-m-xylene 2,6-Xylenol		Solid or liquid Light yellowish brown Sweet tarry odor May float or sink in water.		<ul> <li>4.1 Flash Point: 163°F C.C.</li> <li>4.2 Flammable Limits in Air: 1.4% (LFL)</li> <li>4.3 Fire Extinguishing Agents: Water, dry chemical, foam, carbon dioxide</li> <li>4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent</li> </ul>		
Keep people Avoid conta Call fire dep Notify local Protect wat	e away. act with solid a partment. health and po er intakes.	nd liquid. Ilution control agencie	95.		<ol> <li>Special Hazards of Combustion Products: Toxic vapors of unburned material may form in fire.</li> <li>Behavior in Fire: Not pertinent</li> <li>7 Auto Ignition Temperature: 1110°F</li> </ol>	
Fire	Combustible POISONOU Wear goggle Extinguish w Water may	S GASES ARE PROI as and self-contained vith dry chemicals, for be ineffective on fire.	DUCED IN FIRE. breathing apparatus. am or carbon dioxide.	<ul> <li>4.8 Electrical Hazards: Currently not available</li> <li>4.9 Burning Rate: Currently not available</li> <li>4.10 Adiabatic Flame Temperature: Currently not available</li> </ul>		
Exposure	Call for med DUST Irritating to e Harmful if in Move victim If in eyes, h If breathing If breathing	ical aid. eyes, nose and throa haled. to fresh air. old eyelids open and has stopped, give ant is difficult, give oxyge	t. flush with plenty of water. ificial respiration. m.	<ul> <li>4.11 Stoichometric Air to Fuel Ratio: 47.6 (calc.)</li> <li>4.12 Flame Temperature: Currently not available</li> <li>4.13 Combustion Molar Ratio (Reactant to Product): 13.0 (calc.)</li> <li>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</li> </ul>		
	LIQUID OR Irritating to s If swallowed Remove cou Flush affect IF IN EYES, IF SWALLC or milk and H IF SWALLC VULSIONS,	SOLID skin and eyes. I or skin is exposed w taminated clothing a ded areas with plenty i hold eyelids open ar WED and victim is C ave victim induce vo WED and victim is U do nothing except ke	rill cause nausea and vomiting. nd shoes. of water. of Usuh with plenty of water. ONSCIOUS, have victim drink wa miting. NCONSCIOUS OR HAVING CON ep victim warm.	<ol> <li>CHEMICAL REACTIVITY</li> <li>1 Reactivity with Water: No reaction</li> <li>2 Reactivity with Common Materials: No reaction</li> <li>3 Stability During Transport: Stable</li> <li>4 Neutralizing Agents for Acids and Caustics: Not pertinent</li> <li>5 Polymerization: Not pertinent</li> </ol>		
Water Pollution	HARMFUL 1 Fouling to sl May be dan Notify local Notify opera	O AQUATIC LIFE IN noreline. gerous if it enters wa health and wildlife off tors of nearby water	VERY LOW CONCENTRATIONS ter intakes. cials. intakes.	5.6 Inhibitor of Polymerization: Not pertinent     6. WATER POLLUTION     6.1 Aquatic Toxicity:     (2, 6 isomer) 7-9 ppm/*/trout/lethal/fresh		
<ol> <li>CORRECTIVE RESPONSE ACTIONS Sold discharge Contain Collection Systems: Skim; Pump; Dredge Chemical and Physical Treatment: Absoft Clean shore line</li> <li>C Corrective Colling Control (100 No): 2261 (200 No): 2261</li></ol>					<ul> <li>available</li> <li>3 Biological Oxygen Demand (BOD): 31% of theoretical in 5 days</li> <li>4 Food Chain Concentration Potential: None</li> <li>5 GESAMP Hazard Profile: Bioaccumulation: T Damage to living resources: 2 Human Contact hazard: 1 Reduction of amenities: XX</li> </ul>	

## XYLENOL

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
60 70 80 90 100 120 130 140 150 160 160 170 180 200 210	63.460 63.180 62.900 62.620 62.350 61.790 61.510 61.240 60.960 60.680 60.400 60.130 59.850 59.570 59.290	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85	0.456 0.456 0.457 0.457 0.457 0.458 0.459 0.459 0.460 0.461 0.461 0.461 0.462 0.462 0.463 0.463 0.463 0.464 0.464 0.466 0.467 0.466 0.467 0.468 0.468 0.469 0.469	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85	0.967 0.967	160 165 170 175 180 195 200 215 225 230 225 235 240 245	1.845 1.744 1.650 1.562 1.480 1.403 1.332 1.265 1.203 1.144 1.089 0.989 0.984 0.901 0.861 0.823 0.787

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
77	0.200	220 230 240 250 260 270 280 300 310 320 330 340 350 360 370 380 390 400 410 420	0.345 0.441 0.559 0.705 0.883 1.099 1.360 1.674 2.048 2.494 3.021 3.641 4.368 5.217 6.205 7.348 8.667 10.180 11.920 13.900 16.160	220 230 240 250 260 270 280 300 310 320 330 340 350 350 360 370 380 390 400 410 420	0.00577 0.00727 0.00910 0.01131 0.01397 0.02542 0.02542 0.03070 0.03688 0.04410 0.05249 0.06218 0.06218 0.07335 0.08617 0.10080 0.11750 0.13640 0.15780 0.15780 0.20910		N OT PERTINENT