PENTADECANOL

PDC

CAUTIONARY RESPONSE INFORMATION

Common Synonyms			
1-Pentadecanol Pentadecyl alcohol	Liquid	Colorless	Faint alcohol odor
	Floats on water.		

Keep people away.
Call fire department.
Avoid contact with liquid.
Notify local health and pollution control agencies.
Protect water intakes.

Fire

Combustible.
Extinguish with foam, dry chemical, or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Irritating to skin and eyes.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.

Water Pollution

Harmful to fish and water fowl.
Fouling to shoreline.
May be dangerous if it enters water intakes.
Notify local health and pollution control officials.
Notify operators of nearby water intakes.

1. CORRECTIVE RESPONSE ACTIONS

Stop discharge
Contain
Collection Systems: Skim
Clean shore line
Salvage waterfowl

2. CHEMICAL DESIGNATIONS

2.1 CG Compatibility Group: 20; Alcohol, glycol
2.2 Formula: $CH_3(CH_2)_3CH_2OH$
2.3 IMO/UN Designation: Not listed
2.4 DOT ID No.: Not listed
2.5 CAS Registry No.: 629-76-5
2.6 NAERG Guide No.: Not listed
2.7 Standard Industrial Trade Classification: 51219

3. HEALTH HAZARDS

3.1 Personal Protective Equipment: Goggles or face shield.
3.2 Symptoms Following Exposure: Low toxicity. Excessive exposure produces some central nervous system depression. Prolonged contact produces skin irritation.
3.3 Treatment of Exposure: INHALATION: if necessary, support respiration. INGESTION: induce vomiting and call a doctor. SKIN OR EYES: wash with copious amounts of water.
3.4 TLV-TWA: Not listed.
3.5 TLV-STEL: Not listed.
3.6 TLV-Ceiling: Not listed.
3.7 Toxicity by Ingestion: Currently not available
3.8 Toxicity by Inhalation: Currently not available.
3.9 Chronic Toxicity: Currently not available
3.10 Vapor (Gas) Irritant Characteristics: Currently not available
3.11 Liquid or Solid Characteristics: Currently not available
3.12 Odor Threshold: Currently not available
3.13 IDLH Value: Not listed.
3.14 OSHA PEL-TWA: Not listed.
3.15 OSHA PEL-STEL: Not listed.
3.16 OSHA PEL-Ceiling: Not listed.
3.17 EPA AEGL: Not listed

4. FIRE HAZARDS

4.1 Flash Point: Currently not available
4.2 Flammable Limits in Air: Currently not available
4.3 Fire Extinguishing Agents: Foam, dry chemical or carbon dioxide
4.4 Fire Extinguishing Agents Not to Be Used: Water or foam may cause frothing.
4.5 Special Hazards of Combustion Products: Not pertinent
4.6 Behavior in Fire: Not pertinent
4.7 Auto Ignition Temperature: Currently not available
4.8 Electrical Hazards: Currently not available
4.9 Burning Rate: Currently not available
4.10 Adiabatic Flame Temperature: Currently not available
4.11 Stoichometric Air to Fuel Ratio: 35.7 (calc.)
4.12 Flame Temperature: Currently not available
4.13 Combustion Molar Ratio (Reactant to Product): 11.0 (calc.)
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

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 Waterfowl Toxicity: Currently not available
6.3 Biological Oxygen Demand (BOD): Currently not available
6.4 Food Chain Concentration Potential: None
6.5 GESAMP Hazard Profile: Not listed

7. SHIPPING INFORMATION

7.1 Grades of Purity: Currently not available
7.2 Storage Temperature: Ambient
7.3 Inert Atmosphere: No requirement
7.4 Venting: Open (flame arrester)
7.5 IMO Pollution Category: Currently not available
7.6 Ship Type: Currently not available
7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

8.1 49 CFR Category: Not listed
8.2 49 CFR Class: Currently not available
8.3 49 CFR Package Group: Not listed.
8.4 Marine Pollutant: No
8.5 NFPA Hazard Classification: Not listed
8.6 EPA Reportable Quantity: Not listed.
8.7 EPA Pollution Category: Not listed.
8.8 RCRA Waste Number: Not listed
8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State at 15° C and 1 atm: Liquid
9.2 Molecular Weight: 228.42
9.3 Boiling Point at 1 atm: 572°F = 300°C = 573°K
9.4 Freezing Point: 111°F = 44°C = 317°K
9.5 Critical Temperature: 824.0°F = 440°C = 713.2°K
9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity: 0.829 at 50°C (liquid)
9.8 Liquid Surface Tension: (est.) 25 dynes/cm = 0.025 N/m at 50°C
9.9 Liquid Water Interfacial Tension: (est.) 35 dynes/cm = 0.035 N/m at 50°C
9.10 Vapor (Gas) Specific Gravity: Not pertinent
9.11 Ratio of Specific Heats of Vapor (Gas): 1.024
9.12 Latent Heat of Vaporization: Not pertinent
9.13 Heat of Combustion: Currently not available
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: Not pertinent
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
111	51.120	122	0.502	122	1.040	122	1.626
112	51.120	123	0.502	123	1.040	123	1.592
113	51.120	124	0.502	124	1.040	124	1.558
114	51.120	125	0.502	125	1.040	125	1.526
115	51.120	126	0.502	126	1.040	126	1.494
116	51.120	127	0.502	127	1.040	127	1.463
117	51.120	128	0.502	128	1.040	128	1.433
118	51.120	129	0.502	129	1.040	129	1.403
119	51.120	130	0.502	130	1.040	130	1.374
120	51.120	131	0.502	131	1.040	131	1.346
121	51.120	132	0.502	132	1.040	132	1.319
122	51.120	133	0.502	133	1.040	133	1.292
123	51.120	134	0.502	134	1.040	134	1.266
124	51.120	135	0.502	135	1.040	135	1.240
125	51.120	136	0.502	136	1.040	136	1.215
126	51.120	137	0.502	137	1.040	137	1.191
127	51.120	138	0.502	138	1.040	138	1.167
128	51.120	139	0.502	139	1.040	139	1.144
129	51.120						
130	51.120						
131	51.120						
132	51.120						
133	51.120						
134	51.120						
135	51.120						
136	51.120						

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	360	0.358	360	0.00929	0	0.334
	N	380	0.578	380	0.01464	25	0.348
	S	400	0.900	400	0.02229	50	0.363
	O	420	1.360	420	0.03289	75	0.377
	L	440	1.996	440	0.04721	100	0.391
	U	460	2.857	460	0.06609	125	0.405
	B	480	3.995	480	0.09047	150	0.419
	L	500	5.472	500	0.12130	175	0.433
	E	520	7.353	520	0.15970	200	0.446
		540	9.712	540	0.20670	225	0.459
		560	12.630	560	0.26350	250	0.472
		580	16.180	580	0.33110	275	0.485
		600	20.450	600	0.41070	300	0.498
		620	25.540	620	0.50340	325	0.511
		640	31.540	640	0.61030	350	0.523
		660	38.530	660	0.73230	375	0.535
						400	0.548
						425	0.560
						450	0.571
						475	0.583
						500	0.594
						525	0.606
						550	0.617
						575	0.628
						600	0.638