

# TETRADECANOL

TTN

## CAUTIONARY RESPONSE INFORMATION

<b>Common Synonyms</b>		Thick liquid (heated) Colorless Faint alcohol odor
Myristic alcohol Myristyl alcohol 1-Tetradecanol n-Tetradecyl alcohol		Solidifies and floats on water.
<p style="color: red;">Call fire department. Avoid contact with liquid. Notify local health and pollution control agencies.</p>		
<b>Fire</b>	Combustible. Extinguish with foam, dry chemical, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.	
<b>Exposure</b>	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.	
<b>Water Pollution</b>	Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife 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  
2.2 Formula: CH<sub>3</sub>(CH<sub>2</sub>)<sub>12</sub>CH<sub>2</sub>OH  
2.3 IMO/UN Designation: Not listed  
2.4 DOT ID No.: Not listed  
2.5 CAS Registry No.: Currently not available  
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. Overexposure causes some central nervous system depression. Prolonged skin contact causes skin irritation.  
3.3 Treatment of Exposure: INGESTION: induce vomiting and call a doctor; if necessary, support respiration. EYES AND SKIN: flush 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: Grade 1; LD<sub>50</sub> = 5 to 15 g/kg  
3.8 Toxicity by Inhalation: Currently not available.  
3.9 Chronic Toxicity: Currently not available  
3.10 Vapor (Gas) Irritant Characteristics: Non-volatile  
3.11 Liquid or Solid Characteristics: Prolonged contact with skin may cause irritation.  
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: 285°F O.C.  
4.2 Flammable Limits in Air: Not pertinent  
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: Not pertinent  
4.9 Burning Rate: Currently not available  
4.10 Adiabatic Flame Temperature: Currently not available  
4.11 Stoichiometric Air to Fuel Ratio: 100.0 (calc.)  
4.12 Flame Temperature: Currently not available  
4.13 Combustion Molar Ratio (Reactant to Product): 29.0 (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:  
Bioaccumulation: 0  
Damage to living resources: 0  
Human Oral hazard: 0  
Human Contact hazard: I  
Reduction of amenities: X

### 7. SHIPPING INFORMATION

7.1 Grades of Purity: 96-99+%  
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: Not pertinent  
8.3 49 CFR Package Group: Not listed.  
8.4 Marine Pollutant: No  
8.5 NFPA Hazard Classification:  

Category	Classification
Health Hazard (Blue).....	0
Flammability (Red).....	1
Instability (Yellow).....	0

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: Solid  
9.2 Molecular Weight: 214.38  
9.3 Boiling Point at 1 atm: 505.8°F = 263.2°C = 536.4°K  
9.4 Freezing Point: 99.7°F = 37.6°C = 310.8°K  
9.5 Critical Temperature: 804.2°F = 429°C = 702.2°K  
9.6 Critical Pressure: Not pertinent  
9.7 Specific Gravity: 0.824 at 38°C (liquid)  
9.8 Liquid Surface Tension: 23.7 dynes/cm = 0.0237 N/m at 20°C  
9.9 Liquid Water Interfacial Tension: Currently not available  
9.10 Vapor (Gas) Specific Gravity: Not pertinent  
9.11 Ratio of Specific Heats of Vapor (Gas): 1.026  
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: Currently not available  
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
105	51.220	100	0.576	104	1.040	104	5.997
110	51.080	102	0.583	105	1.040	105	5.863
115	50.940	104	0.589	106	1.040	106	5.732
120	50.810	106	0.596	107	1.040	107	5.605
125	50.670	108	0.602	108	1.040	108	5.481
130	50.530	110	0.609	109	1.040	109	5.360
135	50.390	112	0.616	110	1.040	110	5.242
140	50.250	114	0.622	111	1.040	111	5.127
145	50.110	116	0.629	112	1.040	112	5.015
150	49.970	118	0.635	113	1.040	113	4.906
155	49.830	120	0.642	114	1.040	114	4.800
160	49.700	122	0.648	115	1.040	115	4.696
165	49.560	124	0.655	116	1.040	116	4.595
170	49.420	126	0.661	117	1.040	117	4.497
175	49.280	128	0.668	118	1.040	118	4.400
180	49.140	130	0.675	119	1.040	119	4.307
185	49.000	132	0.681	120	1.040	120	4.215
190	48.860	134	0.688	121	1.040	121	4.126
195	48.720	136	0.694				
200	48.590	138	0.701				
205	48.450	140	0.707				
210	48.310	142	0.714				
		144	0.720				
		146	0.727				
		148	0.734				
		150	0.740				

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	105	0.000	105	0.00000	0	0.333
	N	110	0.000	110	0.00000	25	0.348
	S	115	0.000	115	0.00000	50	0.362
	O	120	0.000	120	0.00000	75	0.376
	L	125	0.000	125	0.00000	100	0.391
	U	130	0.000	130	0.00000	125	0.404
	B	135	0.000	135	0.00000	150	0.418
	L	140	0.000	140	0.00001	175	0.432
	E	145	0.000	145	0.00001	200	0.445
		150	0.000	150	0.00001	225	0.458
		155	0.000	155	0.00001	250	0.471
		160	0.001	160	0.00002	275	0.484
		165	0.001	165	0.00002	300	0.497
		170	0.001	170	0.00003	325	0.510
		175	0.001	175	0.00004	350	0.522
		180	0.001	180	0.00004	375	0.534
						400	0.546
						425	0.558
						450	0.570
						475	0.581
						500	0.593
						525	0.604
						550	0.615
						575	0.626
						600	0.637