

TRIDECANOL

TDN

CAUTIONARY RESPONSE INFORMATION

Common Synonyms		Oily liquid	Colorless	Mild, pleasant odor
Isotridecanol Isotridecyl alcohol Oxotridecyl alcohol 1-Tridecanol		Floats on water.		
<p style="color: red;">Call fire department. Notify local health and pollution control agencies.</p>				
Fire	Combustible. Extinguish with dry chemical or alcohol foam. Water may be ineffective on fire. Cool exposed containers with water.			
Exposure	Not harmful.			
Water Pollution	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, glycol 2.2 Formula: C ₁₂ H ₂₆ CH ₂ 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: Synthetic rubber gloves; chemical goggles. 3.2 Symptoms Following Exposure: Inhalation hazard slight. Skin contact results in moderate irritation. Liquid contact with eyes causes severe irritation and possible eye damage. 3.3 Treatment of Exposure: EYES: promptly flush with clean water for at least 15 min. and see a physician. SKIN: wash exposed area with soap and 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: Vapors are nonirritating to the eyes and throat. 3.11 Liquid or Solid Characteristics: No appreciable hazard. Practically harmless to the skin. 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: 250°F O.C. 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Alcohol foam, dry chemical, water fog 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: 92.8 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 27.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	7. SHIPPING INFORMATION 7.1 Grades of Purity: Mixed isomers; 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								
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	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: <table style="margin-left: 20px;"> <tr> <td>Category</td> <td>Classification</td> </tr> <tr> <td>Health Hazard (Blue).....</td> <td>0</td> </tr> <tr> <td>Flammability (Red).....</td> <td>1</td> </tr> <tr> <td>Instability (Yellow).....</td> <td>0</td> </tr> </table> 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	Category	Classification	Health Hazard (Blue).....	0	Flammability (Red).....	1	Instability (Yellow).....	0
Category	Classification								
Health Hazard (Blue).....	0								
Flammability (Red).....	1								
Instability (Yellow).....	0								
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: 0 Reduction of amenities: X	9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 200.37 9.3 Boiling Point at 1 atm: 525°F = 274°C = 547°K 9.4 Freezing Point: Not pertinent 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 0.846 at 20°C (liquid) 9.8 Liquid Surface Tension: (est.) 30 dynes/cm = 0.03 N/m at 20°C 9.9 Liquid Water Interfacial Tension: (est.) 30 dynes/cm = 0.03 N/m at 20°C 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): 1.027 9.12 Latent Heat of Vaporization: 120 Btu/lb = 64 cal/g = 2.7 X 10 ⁵ J/kg 9.13 Heat of Combustion: (est.) -12,200 Btu/lb = -6,790 cal/g = -284 X 10 ⁵ 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: Low								
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
35	53.730	85	0.565	68	1.109	68	50.000
40	53.590	90	0.573	69	1.109		
45	53.450	95	0.581	70	1.109		
50	53.310	100	0.589	71	1.109		
55	53.170	105	0.597	72	1.109		
60	53.030	110	0.605	73	1.109		
65	52.890	115	0.613	74	1.109		
70	52.750	120	0.621	75	1.109		
75	52.620	125	0.629	76	1.109		
80	52.480	130	0.637	77	1.109		
85	52.340	135	0.645	78	1.109		
90	52.200	140	0.654	79	1.109		
95	52.060	145	0.662	80	1.109		
		150	0.670	81	1.109		
				82	1.109		
				83	1.109		
				84	1.109		
				85	1.109		

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	260	0.070	260	0.00182	0	0.333
	N	280	0.131	280	0.00331	25	0.347
	S	300	0.232	300	0.00571	50	0.361
	O	320	0.393	320	0.00941	75	0.376
	L	340	0.637	340	0.01488	100	0.390
	U	360	0.996	360	0.02269	125	0.403
	B	380	1.507	380	0.03350	150	0.417
	L	400	2.214	400	0.04806	175	0.431
	E	420	3.167	420	0.06720	200	0.444
		440	4.425	440	0.09180	225	0.457
		460	6.051	460	0.12280	250	0.470
		480	8.116	480	0.16120	275	0.483
		500	10.690	500	0.20800	300	0.496
		520	13.870	520	0.26420	325	0.508
		540	17.720	540	0.33080	350	0.521
		560	22.330	560	0.40880	375	0.533
						400	0.545
						425	0.557
						450	0.568
						475	0.580
						500	0.591
						525	0.602
						550	0.614
						575	0.624
						600	0.635