

# ISODECYL ACRYLATE

IAI

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms	Liquid	Colorless	Weak odor Floats on water.	4.1 Flash Point: 240°F O.C. 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Foam, dry chemical, carbon dioxide 4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective. 4.5 Special Hazards of Combustion Products: Not pertinent 4.6 Behavior in Fire: May polymerize to gummy solid. Reaction is not violent. 4.7 Auto Ignition Temperature: Currently not available 4.8 Electrical Hazards: Currently not available 4.9 Burning Rate: Not pertinent 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichiometric Air to Fuel Ratio: 85.7 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 25.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	7.1 Grades of Purity: 97.5+%
	Keep people away. Call fire department. Notify local health and pollution control agencies.			7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: A 7.6 Ship Type: 2 7.7 Barge Hull Type: 3	
Fire	Combustible. Extinguish with dry chemicals, foam or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.			8. HAZARD CLASSIFICATIONS	
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. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.			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: Yes 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	
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.			9. PHYSICAL & CHEMICAL PROPERTIES	
1. CORRECTIVE RESPONSE ACTIONS	Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Absorb Clean shore line Salvage waterfowl	2. CHEMICAL DESIGNATIONS	5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No reaction 5.3 Stability During Transport: Stable if inhibited. 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 5.5 Polymerization: In the absence of inhibitor, polymerization will occur, especially when heated. 5.6 Inhibitor of Polymerization: Monomethyl ether of hydroquinone, 25 ppm	9.1 Physical State at 15°C and 1 atm: Liquid 9.2 Molecular Weight: 212.4 9.3 Boiling Point at 1 atm: Not pertinent (polymerizes) 9.4 Freezing Point: -148°F = -100°C = 173°K 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 0.885 at 20°C (liquid) 9.8 Liquid Surface Tension: (est.) 30 dynes/cm = 0.030 N/m at 20°C 9.9 Liquid Water Interfacial Tension: (est.) 30 dynes/cm = 0.030 N/m at 20°C 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: 110 Btu/lb = 61 cal/g = 2.6 X 10 <sup>3</sup> J/kg 9.13 Heat of Combustion: (est.) -16,300 Btu/lb = -9,100 cal/g = -380 X 10 <sup>3</sup> J/kg 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: Not pertinent 9.16 Heat of Polymerization: (est.) -119 Btu/lb = -66 cal/g = -2.8 X 10 <sup>3</sup> J/kg 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Low	
3. HEALTH HAZARDS	3.1 Personal Protective Equipment: Goggles or face shield; rubber gloves. 3.2 Symptoms Following Exposure: Inhalation causes mild irritation of nose and throat. Eyes are mildly irritated by vapor, more severely by liquid. Prolonged contact of liquid with skin may cause irritation. 3.3 Treatment of Exposure: INHALATION: move to fresh air. EYES: flush with water for at least 15 min. after contact with liquid. SKIN: wipe off, wash well 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: 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: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary. 3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of 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	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: 4 Human Oral hazard: 0 Human Contact hazard: 0 Reduction of amenities: X	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
34	56.420	34	0.441	42	1.048	35	4.146
36	56.350	36	0.442	44	1.048	40	3.792
38	56.280	38	0.443	46	1.048	45	3.474
40	56.210	40	0.444	48	1.048	50	3.189
42	56.150	42	0.446	50	1.048	55	2.932
44	56.080	44	0.447	52	1.048	60	2.700
46	56.010	46	0.448	54	1.048	65	2.490
48	55.940	48	0.449	56	1.048	70	2.300
50	55.870	50	0.450	58	1.048	75	2.128
52	55.800	52	0.451	60	1.048	80	1.971
54	55.730	54	0.452	62	1.048	85	1.829
56	55.660	56	0.453	64	1.048	90	1.699
58	55.590	58	0.454	66	1.048	95	1.580
60	55.520	60	0.456	68	1.048	100	1.472
62	55.450	62	0.457	70	1.048		
64	55.380	64	0.458	72	1.048		
66	55.310	66	0.459	74	1.048		
68	55.240	68	0.460	76	1.048		
70	55.170	70	0.461				
72	55.100	72	0.462				
74	55.040	74	0.463				
76	54.970	76	0.464				
		78	0.466				
		80	0.467				
		82	0.468				
		84	0.469				

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
68	0.010	304	0.792	304	0.02053		N
		306	0.817	306	0.02113		O
		308	0.843	308	0.02174		T
		310	0.870	310	0.02236		
		312	0.897	312	0.02300		P
		314	0.925	314	0.02365		E
		316	0.953	316	0.02432		R
		318	0.983	318	0.02500		T
		320	1.013	320	0.02570		I
		322	1.043	322	0.02641		N
		324	1.075	324	0.02714		O
		326	1.107	326	0.02789		T
		328	1.140	328	0.02865		
		330	1.174	330	0.02943		P
		332	1.209	332	0.03022		E
		334	1.245	334	0.03103		R
		336	1.281	336	0.03186		T
		338	1.319	338	0.03271		I