## 2-ETHYLHEXYL ACRYLATE

(	CAUTION	IARY RESPO	INSE INFORMATION		4. FIRE HAZARDS	7. SHIPPING INFORMATION				
Common Synonyms Acrylic acid, 2-ethylhexylester 2-Ethylhexyl-2-propencate Keep people away. Avoid inhalation.		Liquid Floats on water.	Colorless Sharp odor		<ul> <li>4.1 Flash Point: 195°F O.C.</li> <li>4.2 Flammable Limits in Air: 0.8%-6.4%</li> <li>4.3 Fire Extinguishing Agents: Dry chemical or carbon dioxide</li> <li>4.4 Fire Extinguishing Agents Not to Be Used: Water or foam may cause frothing.</li> </ul>	<ul> <li>7.1 Grades of Purity: 99+%</li> <li>7.2 Storage Temperature: &lt;100°F (38°C)</li> <li>7.3 Inert Atmosphere: No requirement</li> <li>7.4 Venting: Open (flame arrester)</li> <li>7.5 IMO Pollution Category: B</li> <li>7.6 Ship Type: 3</li> </ul>				
Call fire dep	partment. health and po	lution control agencie	26.		4.5 Special Hazards of Combustion Products: Not pertinent	7.7 Barge Hull Type: 3				
Fire	Fire Combustible. Containers may explode in fire. Combat fires from safe distance or protected location. Extinguish with dry chemicals or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.				<ul> <li>4.6 Behavior in Fire: Heat can result in a severe polymerization with rapid release of energy. Sealed containers may rupture explosively if hot.</li> <li>4.7 Auto Ignition Temperature: 496°F</li> <li>4.8 Electrical Hazards: Currently not available</li> <li>4.9 Burning Rate: 4.6 mm/min.</li> </ul>	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:				
Exposure	Call for medical aid.           LIQUID           Irritating to skin and eyes.           Harmful if swallowed.           Remove contarrinated 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 and have victim induce vormiting.           IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CON-           VULSIONS, do nothing except keep victim warm.				<ul> <li>4.10 Adiabatic Flame Temperature: Currently not available</li> <li>4.11 Stoichometric Air to Fuel Ratio: 71.4 (calc.)</li> <li>4.12 Flame Temperature: Currently not available</li> <li>4.13 Combustion Molar Ratio (Reactant to Product): 21.0 (calc.)</li> <li>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</li> </ul>	Category Classification Health Hazard (Blue) 2 Flammability (Red) 2 Instability (Yellow) 1 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				
Water Pollution	Fouling to shoreline.				5. CHEMICAL REACTIVITY         PROPERTIES           5.1 Reactivity with Water: No reaction         9.1 Physical State at 15° C and 1 at 9.2 Molecular Weight: 184.2           5.3 Stability During Transport: Stable         9.3 Boiling Point at 1 atm: (polymer 214°C = 487°K           5.4 Neutralizing Agents for Acids and         9.4 Frequencing Point = 130°E = -00°C					
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Burn; Absorb Clean shore line Salvage waterfowl		ı	2. CHEMICAL DESIGNATIONS     2.1 CG Compatibility Group: 14; Acrylate     2.2 Formula:         CH=CHCOOCH±CH(CsH±)(CH±)sCH:     3 IMO/UN Designation: Not listed     2.4 DOT ID No: Not listed     2.5 CAS Registry No: 103-11-7     2.6 NAERG Guide No:: Not listed     2.7 Standard Industrial Trade Classification     51379		Caustics: Not pertinent 5.5 Polymerization: Will polymerize in the absence of inhibitor and when heated. 5.6 Inhibitor of Polymerization: Monomethyl ether of hydroquinone, 13-120 ppm. Hydroquinone, 90-120 ppm. 6. WATER POLLUTION 6.1 Aquatic Toxicity: 72 ppm/24 hr/ brine shrimp/TLm	<ul> <li>9.5 Critical Temperature: Not pertinent</li> <li>9.6 Critical Pressure: Not pertinent</li> <li>9.7 Specific Gravity: 0.885 at 20°C (liquid)</li> <li>9.8 Liquid Surface Tension: (est.) 26 dynes/cm = 0.026 N/m at 20°C</li> <li>9.9 Liquid Water Interfacial Tension: (est.) 30 dynes/cm = 0.030 N/m at 20°C</li> <li>9.10 Vapor (Gas) Specific Gravity: Not pertinent</li> <li>9.11 Ratio of Specific Heats of Vapor (Gas):</li> </ul>				
<ol> <li>HEALTH HAZARDS</li> <li>Personal Protective Equipment: Self-contained breathing apparatus; rubber gloves; vapor- proof chemical safety goggles; impervious apron and boots.</li> <li>Symptoms Following Exposure: Inhalation of concentrated vapor causes drowsiness and convulsions. Liquid causes irritation of eyes and may irritate skin on prolonged exposure. Ingestion produces same symptoms as inhalation.</li> <li>Treatment of Exposure: INHALATION: give artificial respiration and oxygen if necessary; call a physician. EYES: immediately flush with plenty of water for at least 15 min.; get medical attention. SKIN: immediately flush with plenty of water for at least 15 min.; get medical attention.</li> <li>TLV-TWA: Not listed.</li> <li>TLV-STEL: Not listed.</li> </ol>			ion. and	<ul> <li>6.2 Waterfowl Toxicity: Currently not available</li> <li>6.3 Biological Oxygen Demand (BOD): 9% of theoretical in 5 days, fresh water, acclimated seed</li> <li>6.4 Food Chain Concentration Potential: None</li> <li>6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 3 Human Oral hazard: 0 Human Contact hazard: 1 Reduction of amenities: X</li> </ul>	Not pertinent 9.12 Latent Heat of Vaporization: 110 Btu/lb = $61 \operatorname{caly} = 2.6 \times 10^5$ J/kg 9.13 Heat of Combustion: -15,500 Btu/lb = -8,600 cal/g = 360 X 10^5 J/kg 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Polymerization: -142 Btu/lb = -79 cal/g = -3.3 X 10^5 J/kg 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 0.01 psia					
3.11 Liquid or Solid	alation: Curre ty: Currently n ritant Character I Characterist rting and redde Id: Currently n to listed. /A: Not listed. EL: Not listed.	ntly not available. ot available eristics: Vapors are ics: Minimum hazard ning of the skin. ot available	nonirritating to eyes and throat. . If spilled on clothing and allowed to remain, may	,	No	TES				

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	9.20 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
15 20 25 30 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120	56.900 56.740 56.590 56.430 56.270 56.120 55.960 55.310 55.350 55.490 55.340 55.340 55.330 54.370 54.370 54.370 54.470 54.250 54.400 54.250 54.400 53.330 53.780 53.620	35 40 45 50 55 60 65 70 75 80 80 90 95 100 105 110 115 120	0.402 0.404 0.407 0.410 0.413 0.416 0.421 0.424 0.424 0.427 0.429 0.432 0.435 0.435 0.435 0.438 0.441 0.444 0.449	42 44 46 50 52 54 56 58 60 62 64 66 68 70 72 74 76	1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048 1.048	15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120	3.699 3.434 3.192 2.972 2.771 2.587 2.419 2.264 2.122 1.992 1.872 1.761 1.659 1.564 1.476 1.395 1.319 1.249 1.123 1.066 1.013

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	0.340	100 120 140 160 200 220 240 260 280 300 320 340 360 380 400 420 440 460	0.011 0.022 0.043 0.077 0.135 0.229 0.375 0.598 0.828 1.408 2.088 3.036 4.332 6.075 8.384 11.400 15.280 20.220 26.420	100 120 140 160 200 220 240 260 280 320 320 340 360 380 400 420 440 460	0.00035 0.00067 0.00122 0.00214 0.00363 0.00595 0.00347 0.01466 0.02213 0.03266 0.04717 0.06682 0.0927 0.12720 0.17130 0.22750 0.229800 0.38560 0.49300		N O T P E R T I N E N T