1-BROMOPROPANE

	CAUTION	IARY RESPO		4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Propylbromide n-Propylbromide		Liquid Colorless Sinks in water.		 4.1 Flash Point: 78°F C.C. 4.2 Flammable Limits in Air: 4.6% LEL 4.3 Fire Extinguishing Agents: Foam, CO₂, dry chemical 4.4 Fire Extinguishing Agents Not to Be 	7.1 Grades of Purity: 99% 7.2 Storage Temperature: Currently not available 7.3 Inert Atmosphere: None 7.4 Venting: None 7.5 IMO Pollution Category: Currently not available		
Wear self- Shut off all	contained breat sources of igni I health and pol	nd vapor. Keep peop thing apparatus and f ition. Call fire departr lution control agencie	ull protective clothing. nent.	Used: Water may be ineffective against fire. 4.5 Special Hazards of Combustion Products: Toxic fumes of Hydrogen Bromide	7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available 8. HAZARD CLASSIFICATIONS		
Fire	FLAMMABLE. Flashback may occur along vapor trail. Containers may explode under fire conditions. Emits toxic furmes under fire conditions. Forms explosive mixtures in air. Water may be ineffective against fire. Wear self-contained breathing apparatus and full protective clothing. Extinguish with CO2, dry chemicals, or foam. Use water streams to cool exposed containers until well after the fire is out.			 4.6 Behavior in Fire: 914°F 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: 21.4 	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	SURE CALL FOR MEDICAL AID. VAPOR Irritating to the eyes, nose, and throat. May be harmful if inhaled or absorbed through the skin. Move victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.			 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 7.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 	Instability (Yellow)		
	LIQUID Irritating to the skin and eyes. May be harmful if swallowed or absorbed through the skin. IF IN EYES: flush with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF SWALLOWED: do nothing except keep victim warm.			 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: No terinent 	9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 123.01 9.3 Boiling Point at 1 atm: 160°F = 70.9°C = 344°K 9.4 Foreign Point 400°F		
Water Pollution	May be dangerous if it enters water intakes.			5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION 6.1 Aquatic Toxicity:	 9.4 Freezing Point: -166°F = -110°C = 163°K 9.5 Critical Temperature: Currently not available 9.6 Critical Pressure: Currently not available 9.7 Specific Gravity: 1.3537 at 20°C 9.8 Liquid Surface Tension: 25.9 dyne/cm = 0.026 N/m at 20°C 		
Stop disch Collection	1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Pump; Dredge Do not burn 2. CHEMICAL DESIGNATIONS 2. 1 CG Compatibility Group: Not listed. 2.3 IMO/UN Designation: 3.2 + 3.3/2344 2.4 DOT ID No: Not listed 2.5 CAS Registry No: 106-94-5 2.6 NAERG Guide No:: Not listed. 2.7 Standard Industrial Trade Classification 51139			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: Currently not available 6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: (2)	 9.9 Liquid Water Interfacial Tension: Currently not available 9.10 Vapor (Gas) Specific Gravity: 4.34 9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available 9.12 Latent Heat of Vaporization: Currently not available 9.13 Heat of Combustion: -7276 Btu/lb = -4042 cal⁹ = 169 × 10⁵ J/kg 		
 A. HEALTH HAZARDS 9.1.139 9.1.139 9.1.139 9.1.139 9.1.140 9.1.				Human Oral hazard: 0 Human Contact hazard: - Reduction of amenities: - NO	9.14 Heat of Decomposition: Currently not available 9.15 Heat of Solution: Currently not available 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: 5.3 psia TES		

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9. SATURATED L	20 IQUID 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
68	84.510		C U R R E N T L Y N O T A V A I L A B L E	53	0.746	35 40 45 50 55 60 65 70 75 80 85 90 95 100	0.635 0.614 0.595 0.577 0.559 0.543 0.513 0.500 0.487 0.475 0.463 0.463 0.452 0.441

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	0.320	-60 -40 -20 0 20 40 60 80 100 120 140	0.016 0.031 0.060 0.116 0.225 0.435 0.843 1.632 3.161 6.122 11.857		C U R R E N T L Y N O T A V A I L A B L E	0 25 50 75 125 150 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600	0.162 0.167 0.172 0.177 0.181 0.186 0.191 0.205 0.200 0.205 0.210 0.214 0.229 0.233 0.238 0.247 0.228 0.247 0.257 0.262 0.262 0.266 0.271 0.276