TRIPROPYLAMINE

C	AUTIONARY	RESPONSE INFORM	ATION	4. FIRE HAZARDS	7. SHIPPING INFORMATION	
Common Synonyms Tri-n-propylamine Shut off ignition sources and call fire departme Evacuate. Restrict access. Avoid contact with liquid and vapor. Notify local health and pollution control agenci		r.	Amine odor	 4.1 Flash Point: 105°F C.C. 4.2 Flammable Limits in Air: 0.7%-5.6% 4.3 Fire Extinguishing Agents: Dry chemical, alcohol foam, or carbon dioxide. 4.4 Fire Extinguishing Agents Not to Be Used: Water. 4.5 Special Hazards of Combustion Products: Irritating vapors and toxic 	 7.1 Grades of Purity: 99%; technical. 7.2 Storage Temperature: Ambient. 7.3 Inert Atmosphere: No requirement. 7.4 Venting: Not listed. 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available 	
Protect wate				gases, such as nitrogen oxides and carbon monoxide, may be formed when	8. HAZARD CLASSIFICATIONS	
Fire	Combustible. Extinguish with dry chemical, alcohol foam, or carbon dioxide. Cool exposed containers with water.			involved in fire. 4.6 Behavior in Fire: Currently not available 4.7 Auto Ignition Temperature: 356°F	8.1 49 CFR Category: Flammable Liquid 8.2 49 CFR Class: 3 8.3 49 CFR Package Group: III	
Exposure	CALL FOR MEDICAL AID. Toxic by inhalation or ingestion. VAPOR Move victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID Remove contaminated clothing and shoes. Flush affected areas with water. IF IN EYES, hold eyelids open and flush with plenty of water.			 4.8 Electrical Hazards: Not listed. 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: 72.6 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 20.5 (calc.) 4.14 Minimum Oxygen Concentration for Combusity (MCCC) Mol Tend 	8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue)	
Water	Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes.			5. CHEMICAL REACTIVITY	9. PHYSICAL & CHEMICAL	
Notify operators of nearby water in 1. CORRECTIVE RESPONSE ACTIONS Stop discharge Dilute and disperse Do not burn		NS 2. CHEMICA 2.1 CG Compatibil 2.2 Formula: (CH- 2.3 IMO/UN Desig available 2.4 DOT 10 No.: 2 2.5 CAS Registry 2.6 NAERG Guide	nation: Currently not 260 No.: 102-69-2	 5.1 Reactivity with Water: No reaction. 5.2 Reactivity with Common Materials: Currently not available 5.3 Stability During Transport: Stable. 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent. 5.5 Polymerization: Will not polymerize. 5.6 Inhibitor of Polymerization: Not pertinent. 6. WATER POLLUTION 6.1 Aquatic Toxicity: 	PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liqu 9.2 Molecular Weight: 143.31 9.3 Boiling Point at 1 atm: 302 - 312.8°F = 156°C = 423 - 429°K 9.4 Freezing Point: -137.2°F = -94°C = 17: 9.5 Critical Temperature: Currently not available 9.7 Specific Gravity: 0.754 @ 20°F 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Curre	
 Symptoms Follo inhalation or Treatment of Ex stopped, give at least 15 m with water. TLV-TWA: Not lis TLV-STEL: Not li C TLV-Ceiling: Not TLV-STEL: Not li S TLV-STEL: Not li S	ingestion. posure: Get medical a a artificial respiration. in., lifting lids occasion sted. sted. listed. stion: Grade 3; oral ra ation: Currently not availab tant Characteristics:	osure can cause irritation of eyes, attention. INHALATION: Remove I If breathing is difficult, give oxyger nally. SKIN: Remove contaminated at LD ₅₀ = 72 mg/kg vailable.	to fresh air. If breathing has b. EYES: Flush with water for I clothing and shoes. Flush	Currently not available 6.4 Food Chain Concentration Potential: Currently not available 6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: (2) Human Oral hazard: 2 Human Contact hazard: 11 Reduction of amenities: XXX	Currently not available 9.12 Latent Heat of Vaporization: Currently not available 9.13 Heat of Combustion: Currently not available 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: Currently not available	
cause smarti	ing and reddening of th I: Currently not availab listed. A: Not listed. L: Not listed. ing: Not listed.		nd allowed to remain, may	N	otes	

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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
68	6.290		C U R R E N T L Y N O T A V A I L A B L E		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVA-LABLE

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
	C U R R E N T L Y N O T A V A I L A B L E	68	0.056	68	0.00142		C U R R E N T L Y N O T A V A I L A B L E