## TRIISOBUTYLENE

(		ARY RESPO	NSE INFORMATION		4. FIRE HAZARDS		
Common Synonyms Liquid Isobutene trimer 1-Propene, 2-methyl trimer Triisobutene Floats on water. UN 2324 (DOT)				4. 4. 4.	Flash Point: Currently not available Flammable Limits in Air: Currently not available Fire Extinguishing Agents: Water, carbon dloxide, foam, dry chemical.		
Keep people away. Shut off ignition sources and call fire departmen Avoid contact with liquid and vapor. Stay upwind and use water spray to ``knock do Notify local health and pollution control agencie			nt. wm" vapor. s.	4.	<ul> <li>4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective.</li> <li>5 Special Hazards of Combustion Products: Emits toxic fumes upon decomposition.</li> <li>6 Behavior, in Fire, Currently not available.</li> </ul>		
Fire	FLAMMABL Water may I Extinguish w Cool expose	E. be ineffective on fire. rith dry chemical, foan ad containers with wat	n, or CO2. er.	4.1	<ul> <li>7 Auto Ignition Temperature: Currently not available</li> <li>8 Electrical Hazards: Currently not available</li> </ul>		
Exposure	CALL FOR I VAPOR If inhaled, w or loss of cc Move to frese If breathing i LIQUID Irritating to s Harmful if sv Remove cor Flush affect IF IN EYES, plenty of wa IF SWALLO vomiting imm	WEDICAL AID. ill cause dizziness, dif hscirusness. hair. has stopped, give arti is difficult, give oxyge kin and eyes. vallowed. taminated clothing ar bold eyelids open an ter. WED and victim is Cf nediatelv.	ficult breathing, ficial respiration. n. d shoes. f water. d flush with DNSCIOUS, induce	4. 4. 4. 4. 4. 5. 5.	<ul> <li>4.9 Burning Rate: Currently not available</li> <li>4.10 Adiabatic Flame Temperature: Currenot available</li> <li>4.11 Stoichometric Air to Fuel Ratio: 85.7 (calc.)</li> <li>4.12 Flame Temperature: Currently not available</li> <li>4.13 Combustion Molar Ratio (Reactant to Product): 24.0 (calc.)</li> <li>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</li> <li>5. CHEMICAL REACTIVITY</li> <li>5.1 Reactivity with Water: No reaction.</li> <li>5.2 Reactivity with Common Materials: N</li> </ul>		
Water Pollution	Effect of low Fouling to sh May be dang Notify local I Notify opera	v concentrations on ad noreline. gerous if it enters wat health and wildlife offic tors of nearby water i	quatic life is unknown. er intakes. cials. ntakes.	5.: 5.: 5.: 5.:	<ul> <li>3 Stability During Transport: Stable.</li> <li>4 Neutralizing Agents for Acids and Caustics: Not pertinent.</li> <li>5 Polymerization: Will not occur.</li> <li>6 Inhibitor of Polymerization: Not pertinent.</li> </ul>		
<ul> <li>Notify operators of nearby water</li> <li>1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Cellection Systems: Skim Chemical and Physical Treatment: Burn Clean shore line Salvage waterfowl</li> <li>3.1 Personal Protective Equipment: Wear approved apron, safety goggles and bots.</li> <li>3.2 Symptoms Following Exposure: May be harmful eye and skin irritation.</li> <li>3.3 Treatment of Exposure: INHALATION: Consult a breathing, give artificial respiration. If breathin voriting immediately. EYES: Hold the eyelids SKIN: Wash with scap and water.</li> <li>3.4 TV-TWA: Not listed.</li> <li>3.5 TU-STEL: Not listed.</li> <li>3.6 TLV-Ceiling: Not listed.</li> <li>3.9 Chronic Toxicity: Currently not available</li> <li>3.10 Card transcriptics: Causes smartin exposure; may cause second-degree burns of align concentrations unpleasant. The effect is</li> <li>3.11 Quar (Gas) Irritant Characteristics: Causes smartin exposure; may cause second-degree burns of 3.12 Odor Threshold: Currently not available</li> <li>3.13 DLH Value: Not listed.</li> <li>3.14 OSHA PEL-TWA: Not listed.</li> <li>3.15 OSHA PEL-STEL: Not listed.</li> <li>3.16 OSHA PEL-STEL: Not listed.</li> <li>3.17 EPA AEGL: Not listed.</li> </ul>			2. CHEMICAL DESIGNATIONS     2.1 GG Compatibility Group: 30; Olefins     2.2 Formula: (C+H):     3.1 MO/UN Designation: 3.3/2324     4. DOT ID No:: 2324     5. CAS Registry No:: 7756-94-7     2.6 NAERG Guide No:: 128     2.7 Standard Industrial Trade Classification     51119     AZARDS respirator, chemical resistant gloves or mask, ay inhalation, ingestion or absorption. May cause physician. Remove the victim to fresh air. If not is difficult, give oxygen. INGESTION: Induce oppen and flush with plenty of water for 15 minutes.  se moderate irritation such that personnel will find emporary. of the skin and first-degree burns on short long exposure.	s: 6.	<ul> <li>6. WATER POLLUTION</li> <li>1 Aquitic Toxicity: Currently not available</li> <li>2 Waterfowl Toxicity: Currently not available</li> <li>3 Biological Oxygen Demand (BOD): Currently not available</li> <li>5 GESAMP Hazard Profile: Not listed</li> </ul>		

7. SHIPPING INFORMATION
<ul> <li>7.1 Grades of Purity: Currently not available</li> <li>7.2 Storage Temperature: Currently not available</li> <li>7.3 Inert Atmosphere: Ambient.</li> <li>7.4 Venting: Currently not available</li> <li>7.5 IMO Pollution Category: Currently not available</li> <li>7.6 Ship Type: Currently not available</li> <li>7.7 Barge Hull Type: Currently not available</li> </ul>
8. HAZARD CLASSIFICATIONS
8.1 49 CFR Category: Flammable liquid
8.2 49 CFR Class: 3
8.3 49 CFR Package Group: III
8.4 Marine Pollutant: No
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 PROPERTIES
9.1 Physical State at 15° C and 1 atm: Liquid
9.2 Molecular Weight: 168.32
<b>9.3 Boiling Point at 1 atm:</b> 350.6°F = 177°C = 450.2°K
<b>9.4 Freezing Point:</b> -104.8°F = -76°C = 197.2°K
9.5 Critical Temperature: Currently not available
9.6 Critical Pressure: Currently not available
9.7 Specific Gravity: 0.77
available
9.9 Liquid Water Interfacial Tension: Currently not available
9.10 Vapor (Gas) Specific Gravity: 5.8
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: Currently not available
9.14 Heat of Decomposition: Currently not available
9.15 Heat of Solution: Currently not available
9.16 Heat of Polymerization: Currently not available
9.17 Heat of Fusion: Currently not available
9.18 Limiting Value: Currently not available

9.19 Reid Vapor Pressure: 0.0754 psia

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
	CURRENTLY NOT AVAILABLE		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
	ΙΝ SOL UBLE	64 111 134 158 188 206 230 266 307 354	0.019 0.097 0.193 0.387 0.774 1.160 1.934 3.867 7.735 14.696		C U R R E N T L Y NOT A V A I L A B L E	0 25 50 75 100 125 150 275 200 275 300 225 250 325 350 375 400 425 450 475 500 525 550 575 600	0.337 0.352 0.367 0.381 0.395 0.409 0.423 0.436 0.449 0.462 0.475 0.487 0.499 0.512 0.523 0.535 0.546 0.557 0.568 0.557 0.568 0.557 0.568 0.579 0.590 0.600 0.610 0.630