

# 2,2-DIMETHYLPROPANE-1,3-DIOL

DDI

CAUTIONARY RESPONSE INFORMATION		4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms Dimethyl propane Dimethyltrimethylene glycol Neol Neopentylene glycol Neopentyl glycol 1,3-Propanediol, 2,2-dimethyl	Crystalline solid White	<p>4.1 Flash Point: 225°F C.C.</p> <p>4.2 Flammable Limits in Air: LEL 1.37% @ 149°C; UEL 18.8 @ 177°C</p> <p>4.3 Fire Extinguishing Agents: Water sprays, dry chemical powder, alcohol or polymer foam.</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Currently not available</p> <p>4.5 Special Hazards of Combustion Products: Emits toxic fumes under fire condition.</p> <p>4.6 Behavior in Fire: Currently not available</p> <p>4.7 Auto Ignition Temperature: 730°F</p> <p>4.8 Electrical Hazards: Currently not available</p> <p>4.9 Burning Rate: Currently not available</p> <p>4.10 Adiabatic Flame Temperature: Currently not available</p> <p>4.11 Stoichiometric Air to Fuel Ratio: 33.3 (calc.)</p> <p>4.12 Flame Temperature: Currently not available</p> <p>4.13 Combustion Molar Ratio (Reactant to Product): 11.0 (calc.)</p> <p>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</p>	<p>7.1 Grades of Purity: 99%</p> <p>7.2 Storage Temperature: Currently not available</p> <p>7.3 Inert Atmosphere: Currently not available</p> <p>7.4 Venting: Currently not available</p> <p>7.5 IMO Pollution Category: D</p> <p>7.6 Ship Type: Data not available</p> <p>7.7 Barge Hull Type: Currently not available</p>
Call fire department. Notify local health and pollution control agencies.			8. HAZARD CLASSIFICATIONS
Fire  Combustible. Water may be ineffective on fire. Extinguish with dry chemical, alcohol foam, or CO <sub>2</sub> . Wear self-contained breathing apparatus and protective clothing.			<p>8.1 49 CFR Category: Not listed.</p> <p>8.2 49 CFR Class: Not pertinent.</p> <p>8.3 49 CFR Package Group: Not listed.</p> <p>8.4 Marine Pollutant: No</p> <p>8.5 NFPA Hazard Classification: Not listed</p> <p>8.6 EPA Reportable Quantity: Not listed.</p> <p>8.7 EPA Pollution Category: Not listed.</p> <p>8.8 RCRA Waste Number: Not listed</p> <p>8.9 EPA FWPCA List: Not listed</p>
Exposure  CALL FOR MEDICAL AID.  SOLID Irritating to skin or eyes. Harmful if swallowed. Flush affected areas with plenty of water.			9. PHYSICAL & CHEMICAL PROPERTIES
Water Pollution  Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.			<p>9.1 Physical State at 15°C and 1 atm: Solid</p> <p>9.2 Molecular Weight: 104.15</p> <p>9.3 Boiling Point at 1 atm: 406.4°F = 208°C = 481.2°K</p> <p>9.4 Freezing Point: 253.4-260.6°F = 123-127°C = 396.2-400.2°K</p> <p>9.5 Critical Temperature: Currently not available</p> <p>9.6 Critical Pressure: Currently not available</p> <p>9.7 Specific Gravity: Currently not available</p> <p>9.8 Liquid Surface Tension: Currently not available</p> <p>9.9 Liquid Water Interfacial Tension: Currently not available</p> <p>9.10 Vapor (Gas) Specific Gravity: 3.6</p> <p>9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available</p> <p>9.12 Latent Heat of Vaporization: Currently not available</p> <p>9.13 Heat of Combustion: Currently not available</p> <p>9.14 Heat of Decomposition: Currently not available</p> <p>9.15 Heat of Solution: Currently not available</p> <p>9.16 Heat of Polymerization: Currently not available</p> <p>9.17 Heat of Fusion: Currently not available</p> <p>9.18 Limiting Value: Currently not available</p> <p>9.19 Reid Vapor Pressure: Currently not available</p>
1. CORRECTIVE RESPONSE ACTIONS Stop discharge	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 20; Alcohols, glycols 2.2 Formula: HOCH <sub>2</sub> C(CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub> OH 2.3 IMO/UN Designation: Currently not available 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: 126-30-7 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 51229	5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction. 5.2 Reactivity with Common Materials: No reaction. 5.3 Stability During Transport: Currently not available 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent. 5.5 Polymerization: Will not occur. 5.6 Inhibitor of Polymerization: Not pertinent.	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: Currently not available 6.5 GESAMP Hazard Profile: Not listed
3.1 Personal Protective Equipment: Self-contained breathing apparatus, rubber boots, and heavy rubber gloves. 3.2 Symptoms Following Exposure: May be harmful by ingestion or skin absorption. Causes eye and skin irritation. Material is irritating to mucous membrane and upper respiratory tract. INHALATION: Call for medical aid. Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. 3.3 Treatment of Exposure: EYES: Flush with copious amounts of water. SKIN: Wash with soap and copious amounts of 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> = 6.4 g/kg (rat) 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 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	3. HEALTH HAZARDS	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	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE	CURRENTLY NOT AVAILABLE

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
CURRENTLY NOT AVAILABLE	68	0.015		CURRENTLY NOT AVAILABLE	0 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600	0.357 0.369 0.381 0.393 0.404 0.416 0.427 0.438 0.448 0.459 0.469 0.479 0.489 0.499 0.508 0.518 0.527 0.536 0.544 0.553 0.561 0.569 0.577 0.585 0.593	