

# 2,6-DINITROTOLUENE

DNL

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS		7. SHIPPING INFORMATION	
<b>Common Synonyms</b> 2,6-DNT Toluene, 2,6-dinitro-		Solid or heated liquid	Yellow to red	<b>4.1 Flash Point:</b> (est.) 404°F C.C.		<b>7.1 Grades of Purity:</b> Technical mixtures such as 80-20 mix of 2, 4- and 2, 6-isomers available. Hazard properties are the same.	
Liquid solidifies. Solid and liquid sink in water.		<b>4.2 Flammable Limits in Air:</b> Currently not available		<b>7.2 Storage Temperature:</b> Ambient		<b>7.3 Inert Atmosphere:</b> No requirement	
Keep people away. AVOID CONTACT WITH LIQUID AND SOLID. Avoid inhalation. Wear goggles, self-contained breathing apparatus and rubber overclothing (including gloves). Shut off ignition sources and call fire department. Notify local health and pollution control agencies. Protect water intakes.		<b>4.3 Fire Extinguishing Agents:</b> Water, Carbon dioxide, dry chemical		<b>7.4 Venting:</b> Open (flame arrester)		<b>7.5 IMO Pollution Category:</b> A	
<b>Fire</b> COMBUSTIBLE POISONOUS GASES MAY BE PRODUCED IN FIRE. Containers may explode in fire. Evacuate surrounding area. Wear goggles and self-contained breathing apparatus. Combat fires from safe distance or protected location. Cool exposed containers with water. Extinguish with water spray.		<b>4.4 Fire Extinguishing Agents Not to Be Used:</b> Not pertinent		<b>7.6 Ship Type:</b> 2		<b>7.7 Barge Hull Type:</b> Currently not available	
<b>Exposure</b> CALL FOR MEDICAL AID.  LIQUID OR SOLID. POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED. Will burn skin and eyes. Remove contaminated 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 vomiting. IF SWALLOWED and victim is UNCONSCIOUS, OR HAVING CONVULSIONS, do nothing except keep victim warm.		<b>4.5 Special Hazards of Combustion Products:</b> Emits toxic fumes of oxides of nitrogen		<b>8. HAZARD CLASSIFICATIONS</b>		<b>8.1 49 CFR Category:</b> Poison	
<b>Water Pollution</b> HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.		<b>4.6 Behavior in Fire:</b> May explode when exposed to heat or flame.		<b>8.2 49 CFR Class:</b> 6.1		<b>8.3 49 CFR Package Group:</b> II	
<b>1. CORRECTIVE RESPONSE ACTIONS</b> Stop discharge Contain Collection Systems: Pump; Dredge Do not burn		<b>2. CHEMICAL DESIGNATIONS</b>		<b>8.4 Marine Pollutant:</b> No		<b>8.5 NFPA Hazard Classification:</b> Not listed	
<b>3. HEALTH HAZARDS</b>		<b>2.1 CG Compatibility Group:</b> Currently not available; Aromatic Hydrocarbon		<b>8.6 EPA Reportable Quantity:</b> 100 pounds		<b>8.7 EPA Pollution Category:</b> B	
<b>3.1 Personal Protective Equipment:</b> Safety glasses with side shields and face shield, self-contained breathing apparatus or air line masks, butyl rubber gloves, boots and protective clothing.		<b>2.2 Formula:</b> (NO <sub>2</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>4</sub>		<b>8.8 RCRA Waste Number:</b> U106		<b>8.9 EPA FWPCA List:</b> Not listed	
<b>3.2 Symptoms Following Exposure:</b> INHALATION, INGESTION OR SKIN ABSORPTION: Headache, weakness, nausea or dizziness, cyanosis, drowsiness, shortness of breath and collapse. Can burn eyes and skin.		<b>2.3 IMO/UN Designation:</b> 6.1/2038		<b>9. PHYSICAL &amp; CHEMICAL PROPERTIES</b>		<b>9.1 Physical State at 15°C and 1 atm:</b> Solid	
<b>3.3 Treatment of Exposure:</b> Call a doctor. INHALATION: Remove from exposure. If cyanotic, oxygen can be administered. EYES: Flush with copious amounts of water. SKIN: Remove all contaminated clothing. Wash with lukewarm water and soap. INGESTION: Induce vomiting. Administer gastric lavage.		<b>2.4 DOT ID No.:</b> 2038		<b>9.2 Molecular Weight:</b> 182.13		<b>9.3 Boiling Point at 1 atm:</b> Not pertinent-decomposes	
<b>3.4 TLV-TWA:</b> Not listed.		<b>2.5 CAS Registry No.:</b> 606-20-2		<b>9.4 Freezing Point:</b> 140.9°F = 60.5°C = 333.7°K		<b>9.5 Critical Temperature:</b> Currently not available	
<b>3.5 TLV-STEL:</b> Not listed.		<b>2.6 NAERG Guide No.:</b> 152		<b>9.6 Critical Pressure:</b> Currently not available		<b>9.7 Specific Gravity:</b> 1.283 at 111°C	
<b>3.6 TLV-Ceiling:</b> Not listed.		<b>2.7 Standard Industrial Trade Classification:</b> 51140		<b>9.8 Liquid Surface Tension:</b> Not pertinent		<b>9.9 Liquid Water Interfacial Tension:</b> Not pertinent	
<b>3.7 Toxicity by Ingestion:</b> Grade 3; LD <sub>50</sub> = 50-500 mg/kg		<b>3. HEALTH HAZARDS</b>		<b>9.10 Vapor (Gas) Specific Gravity:</b> 6.28		<b>9.11 Ratio of Specific Heats of Vapor (Gas):</b> Not pertinent	
<b>3.8 Toxicity by Inhalation:</b> Currently not available.		<b>3.1 Personal Protective Equipment:</b> Safety glasses with side shields and face shield, self-contained breathing apparatus or air line masks, butyl rubber gloves, boots and protective clothing.		<b>9.12 Latent Heat of Vaporization:</b> Currently not available		<b>9.13 Heat of Combustion:</b> -8099 Btu/lb = -4499 cal/g = -188.3 X 10 <sup>6</sup> J/kg	
<b>3.9 Chronic Toxicity:</b> Caused methemoglobinemia and anemia. Damaged spleen and liver. Brain damage was observed as was testicular atrophy.		<b>3.2 Symptoms Following Exposure:</b> INHALATION, INGESTION OR SKIN ABSORPTION: Headache, weakness, nausea or dizziness, cyanosis, drowsiness, shortness of breath and collapse. Can burn eyes and skin.		<b>9.14 Heat of Decomposition:</b> Not pertinent		<b>9.15 Heat of Solution:</b> Not pertinent	
<b>3.10 Vapor (Gas) Irritant Characteristics:</b> Not pertinent		<b>3.3 Treatment of Exposure:</b> Call a doctor. INHALATION: Remove from exposure. If cyanotic, oxygen can be administered. EYES: Flush with copious amounts of water. SKIN: Remove all contaminated clothing. Wash with lukewarm water and soap. INGESTION: Induce vomiting. Administer gastric lavage.		<b>9.16 Heat of Polymerization:</b> Not pertinent		<b>9.17 Heat of Fusion:</b> Currently not available	
<b>3.11 Liquid or Solid Characteristics:</b> Currently not available		<b>3.4 TLV-TWA:</b> Not listed.		<b>9.18 Limiting Value:</b> Currently not available		<b>9.19 Reid Vapor Pressure:</b> Currently not available	
<b>3.12 Odor Threshold:</b> 0.1 ppm in water.		<b>3.5 TLV-STEL:</b> Not listed.		<b>NOTES</b>			
<b>3.13 IDLH Value:</b> Not listed.		<b>3.6 TLV-Ceiling:</b> Not listed.					
<b>3.14 OSHA PEL-TWA:</b> Not listed.		<b>3.7 Toxicity by Ingestion:</b> Grade 3; LD <sub>50</sub> = 50-500 mg/kg					
<b>3.15 OSHA PEL-STEL:</b> Not listed.		<b>3.8 Toxicity by Inhalation:</b> Currently not available.					
<b>3.16 OSHA PEL-Ceiling:</b> Not listed.		<b>3.9 Chronic Toxicity:</b> Caused methemoglobinemia and anemia. Damaged spleen and liver. Brain damage was observed as was testicular atrophy.					
<b>3.17 EPA AEGL:</b> Not listed.							

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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
NOT PERTINENT			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

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			NOT PERTINENT		NOT PERTINENT		CURRENTLY NOT AVAILABLE