

NITRALIN

NTL

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms N,N-Diisopropylamine 4-(Methylsulfonyl)-2,6-dinitro Planavin	Solid Sinks in water.	Light yellow to orange	Mild odor
<p>KEEP PEOPLE AWAY. AVOID CONTACT WITH SOLID AND DUST. Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves). Call fire department. Notify local health and pollution control agencies. Protect water intakes.</p>			
Fire	Combustible. Irritating gases are produced when heated. Containers may explode in fire. Combat fires from safe distance or protected location. Flood discharge area with water.		
Exposure	CALL FOR MEDICAL AID. DUST POISONOUS IF INHALED. Move victim to fresh air. If breathing is difficult, give oxygen. SOLID POISONOUS IF SWALLOWED. Irritating to 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.		
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.		

1. CORRECTIVE RESPONSE ACTIONS		2. CHEMICAL DESIGNATIONS	
Stop discharge Contain Collection Systems: Skim; Dredge		2.1 CG Compatibility Group: Not listed. 2.2 Formula: C ₁₀ H ₁₆ N ₂ O ₂ S 2.3 IMO/UN Designation: 6.1/1609 2.4 DOT ID No.: Not listed. 2.5 CAS Registry No.: 472-61-4 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 51454	
<h3>3. HEALTH HAZARDS</h3> <p>3.1 Personal Protective Equipment: Dust mask; rubber gloves. 3.2 Symptoms Following Exposure: Dust irritates eyes. Other forms of exposure produce no observable symptoms. 3.3 Treatment of Exposure: No cases of clinical toxicity on record. Supportive and symptomatic medical treatment recommended if massive overexposure occurs. EYES: flush with water if irritation occurs. SKIN: wash with soap and water. INGESTION: induce vomiting. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 2; oral LD₅₀ > 2,000 mg/kg (rat) 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: None observed 3.10 Vapor (Gas) Irritant Characteristics: Currently not available 3.11 Liquid or Solid Characteristics: Currently not available 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 A EGL: Not listed</p>			

4. FIRE HAZARDS		7. SHIPPING INFORMATION	
4.1 Flash Point: Not pertinent (combustible solid)		7.1 Grades of Purity: Technical: 94+%; Wettable powder: 75%; Emulsifiable concentrate	
4.2 Flammable Limits in Air: Not pertinent		7.2 Storage Temperature: Ambient	
4.3 Fire Extinguishing Agents: Water		7.3 Inert Atmosphere: No requirement	
4.4 Fire Extinguishing Agents Not to Be Used: Currently not available		7.4 Venting: Open	
4.5 Special Hazards of Combustion Products: Irritating oxides of sulfur and nitrogen are formed in fire.		7.5 IMO Pollution Category: Currently not available	
4.6 Behavior in Fire: Decomposes vigorously in a self-sustaining reaction at or above 225°C		7.6 Ship Type: Currently not available	
4.7 Auto Ignition Temperature: 435°F		7.7 Barge Hull Type: Currently not available	
4.8 Electrical Hazards: Not pertinent			
4.9 Burning Rate: Not pertinent			
4.10 Adiabatic Flame Temperature: Currently not available			
4.11 Stoichiometric Air to Fuel Ratio: 89.3 (calc.)			
4.12 Flame Temperature: Currently not available			
4.13 Combustion Molar Ratio (Reactant to Product): 26.5 (calc.)			
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed			
5. CHEMICAL REACTIVITY		8. HAZARD CLASSIFICATIONS	
5.1 Reactivity with Water: No reaction		8.1 49 CFR Category: Not listed	
5.2 Reactivity with Common Materials: No reaction		8.2 49 CFR Class: Not pertinent	
5.3 Stability During Transport: Stable		8.3 49 CFR Package Group: Not listed	
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent		8.4 Marine Pollutant: No	
5.5 Polymerization: Not pertinent		8.5 NFPA Hazard Classification: Not listed	
5.6 Inhibitor of Polymerization: Not pertinent		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	
6. WATER POLLUTION		9. PHYSICAL & CHEMICAL PROPERTIES	
6.1 Aquatic Toxicity: 27 ppm/96 hr/rainbow trout/LC ₅₀ /fresh water		9.1 Physical State at 15°C and 1 atm: Solid	
1 ppm/96 hr/oysters/no effect/salt water		9.2 Molecular Weight: 345.2	
6.2 Waterfowl Toxicity: No toxicity after 2,000 mg/kg (ducks)		9.3 Boiling Point at 1 atm: (decomposes) >437°F = >225°C = >498°K	
6.3 Biological Oxygen Demand (BOD): Currently not available		9.4 Freezing Point: 304°F = 151°C = 424°K	
6.4 Food Chain Concentration Potential: None		9.5 Critical Temperature: Not pertinent	
6.5 GESAMP Hazard Profile: Not listed		9.6 Critical Pressure: Not pertinent	
		9.7 Specific Gravity: (est.) >1 at 20°C (solid)	
		9.8 Liquid Surface Tension: Not pertinent	
		9.9 Liquid Water Interfacial Tension: Not pertinent	
		9.10 Vapor (Gas) Specific Gravity: Not pertinent	
		9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent	
		9.12 Latent Heat of Vaporization: Not pertinent	
		9.13 Heat of Combustion: Currently not available	
		9.14 Heat of Decomposition: -450 Btu/lb = -250 cal/g = -10.5 X 10 ³ J/kg	
		9.15 Heat of Solution: Not pertinent	
		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	

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
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
INSOLUBLE			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT