

# DICHLORBENIL

DIB

## CAUTIONARY RESPONSE INFORMATION

<b>Common Synonyms</b> Casoron 2,6-DBN 2,6-Dichlorobenzonitrile Du-sprex NIA 5996	Solid crystalline      White      Aromatic odor  Mixes slowly with water.
<p style="color: red;">Keep people away. Wear goggles, self-contained breathing apparatus, protective clothing, and rubber gloves. Notify local health and pollution control agencies. Protect water intakes.</p>	
<b>Fire</b>	Not flammable.
<b>Exposure</b>	CALL FOR MEDICAL AID.  SOLID Harmful if swallowed. IF SWALLOWED and victim is CONSCIOUS have victim drink water or milk and induce vomiting. Flush affected areas with plenty of water.
<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>1. CORRECTIVE RESPONSE ACTIONS</b> Stop discharge Contain Collection Systems: Pump; Dredge	<b>2. CHEMICAL DESIGNATIONS</b> 2.1 <b>CG Compatibility Group:</b> Not listed. 2.2 <b>Formula:</b> C <sub>7</sub> H <sub>4</sub> Cl <sub>2</sub> N 2.3 <b>IMO/UN Designation:</b> 6.1/1609(>10%); 9/1609 (<10%) 2.4 <b>DOT ID No.:</b> Not listed. 2.5 <b>CAS Registry No.:</b> 1194-65-6 2.6 <b>NAERG Guide No.:</b> Not listed 2.7 <b>Standard Industrial Trade Classification:</b> 51484
<b>3. HEALTH HAZARDS</b>	
3.1 <b>Personal Protective Equipment:</b> Use dust respirator, rubber gloves, goggles, paper suit, hand barrier cream.	
3.2 <b>Symptoms Following Exposure:</b> INHALATION: No human overexposures known. INGESTION: Most prominent symptoms in laboratory animals 4 hours after exposure are inactivity, anorexia, and sedation.	
3.3 <b>Treatment of Exposure:</b> Call a physician. EYES: Flush with water. SKIN: Wash with water. INGESTION: Gastric lavage and symptomatic therapy.	
3.4 <b>TLV-TWA:</b> Not listed.	
3.5 <b>TLV-STEL:</b> Not listed.	
3.6 <b>TLV-Ceiling:</b> Not listed.	
3.7 <b>Toxicity by Ingestion:</b> Grade 2; LD <sub>50</sub> = 0.5 to 5 g/kg.	
3.8 <b>Toxicity by Inhalation:</b> Currently not available.	
3.9 <b>Chronic Toxicity:</b> At 50 ppm growth inhibition occurred in second generation rats and at higher levels hypertrophy of liver and kidneys was found.	
3.10 <b>Vapor (Gas) Irritant Characteristics:</b> Currently not available	
3.11 <b>Liquid or Solid Characteristics:</b> No appreciable hazard. Practically harmless to skin.	
3.12 <b>Odor Threshold:</b> Currently not available	
3.13 <b>IDLH Value:</b> Not listed.	
3.14 <b>OSHA PEL-TWA:</b> Not listed.	
3.15 <b>OSHA PEL-STEL:</b> Not listed.	
3.16 <b>OSHA PEL-Ceiling:</b> Not listed.	
3.17 <b>EPA AEGL:</b> Not listed	

## 4. FIRE HAZARDS

- 4.1 **Flash Point:** Not flammable
- 4.2 **Flammable Limits in Air:** Not flammable
- 4.3 **Fire Extinguishing Agents:** All media are applicable.
- 4.4 **Fire Extinguishing Agents Not to Be Used:** None
- 4.5 **Special Hazards of Combustion Products:** Currently not available
- 4.6 **Behavior in Fire:** Currently not available
- 4.7 **Auto Ignition Temperature:** Not flammable
- 4.8 **Electrical Hazards:** Not flammable
- 4.9 **Burning Rate:** Not flammable
- 4.10 **Adiabatic Flame Temperature:** Currently not available
- 4.11 **Stoichiometric Air to Fuel Ratio:** Not pertinent
- 4.12 **Flame Temperature:** Currently not available
- 4.13 **Combustion Molar Ratio (Reactant to Product):** Not pertinent
- 4.14 **Minimum Oxygen Concentration for Combustion (MOCC):** Not listed

## 5. CHEMICAL REACTIVITY

- 5.1 **Reactivity with Water:** No reaction  
Suspension. Does not deteriorate.
- 5.2 **Reactivity with Common Materials:** No reaction
- 5.3 **Stability During Transport:** Stable
- 5.4 **Neutralizing Agents for Acids and Caustics:** Currently not available
- 5.5 **Polymerization:** Not pertinent
- 5.6 **Inhibitor of Polymerization:** Not pertinent

## 6. WATER POLLUTION

- 6.1 **Aquatic Toxicity:**  
Wettable powder  
17 to 22 ppm/24-hour/Bluegill/LC<sub>50</sub>  
23 ppm/24-hour/Rainbow trout/LC<sub>50</sub>  
Granular  
37 ppm/24-hour/Bluegill/LC<sub>50</sub>  
20 ppm/48-hour/Bluegill/LC<sub>50</sub>  
120 ppm/24-hour/Harlequin fish/LC<sub>50</sub>
- 6.2 **Waterfowl Toxicity:** Young mallards LD<sub>50</sub> = >2000 mg/kg
- 6.3 **Biological Oxygen Demand (BOD):** Currently not available
- 6.4 **Food Chain Concentration Potential:** Accumulated by goldfish at a 15 to 20 fold level in 3 months.
- 6.5 **GESAMP Hazard Profile:** Not listed

## 7. SHIPPING INFORMATION

- 7.1 **Grades of Purity:** Currently not available
- 7.2 **Storage Temperature:** Cool
- 7.3 **Inert Atmosphere:** Currently not available
- 7.4 **Venting:** Currently not available
- 7.5 **IMO Pollution Category:** Currently not available
- 7.6 **Ship Type:** Currently not available
- 7.7 **Barge Hull Type:** Currently not available

## 8. HAZARD CLASSIFICATIONS

- 8.1 **49 CFR Category:** Not listed.
- 8.2 **49 CFR Class:** Not listed.
- 8.3 **49 CFR Package Group:** Not listed.
- 8.4 **Marine Pollutant:** No
- 8.5 **NFPA Hazard Classification:** Not listed
- 8.6 **EPA Reportable Quantity:** 100 pounds
- 8.7 **EPA Pollution Category:** B
- 8.8 **RCA Waste Number:** Not listed
- 8.9 **EPA FWPCA List:** Yes

## 9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 **Physical State at 15° C and 1 atm:** Solid
- 9.2 **Molecular Weight:** 172
- 9.3 **Boiling Point at 1 atm:** 518°F = 270°C = 543.2°K
- 9.4 **Freezing Point:** 293 to 294.8°F = 145 to 146°C = 418.2 to 419.2°K
- 9.5 **Critical Temperature:** Currently not available
- 9.6 **Critical Pressure:** Currently not available
- 9.7 **Specific Gravity:** Currently not available
- 9.8 **Liquid Surface Tension:** Currently not available
- 9.9 **Liquid Water Interfacial Tension:** Currently not available
- 9.10 **Vapor (Gas) Specific Gravity:** Currently not available
- 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:** Thermally extremely stable
- 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

## 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
	C U R R E N T L Y  N O T  A V A I L A B L E		C U R R E N T L Y  N O T  A V A I L A B L E		C U R R E N T L Y  N O T  A V A I L A B L E		C U R R E N T L Y  N O T  A V A I L A B L E

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
68	0.002	220	0.405	220	0.01531		C
69	0.002	240	1.364	240	0.04800		U
70	0.002	260	2.323	260	0.07567		R
71	0.002	280	3.282	280	0.09938		R
72	0.002	300	4.241	300	0.11993		E
73	0.002	320	5.201	320	0.13791		N
74	0.002	340	6.160	340	0.15377		T
75	0.002	360	7.119	360	0.16787		L
76	0.002	380	8.078	380	0.18049		Y
77	0.002	400	9.037	400	0.19185		
		420	9.996	420	0.20212		N
		440	10.955	440	0.21146		O
		460	11.915	460	0.21999		T
		480	12.874	480	0.22781		
		500	13.833	500	0.23500		A
							V
							A
							I
							L
							A
							B
							L
							E