

ALDRIN

ALD

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS		7. SHIPPING INFORMATION											
Common Synonyms 1,2,3,4,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo-exo-5,8-dimethanoraphthalene. HHN		Solid crystals, or solution	Light to dark brown Mild chemical odor	4.1 Flash Point: Not flammable		7.1 Grades of Purity: 20-95% aldrin, 5-80% inert ingredients. Several solutions in hydrocarbon solvents.											
Fire Solid is not flammable but usually is dissolved in a combustible liquid. POISONOUS GASES ARE PRODUCED WHEN HEATED. Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves). Stop discharge if possible. Call fire department if solution is discharged. Isolate and remove discharged material. Notify local health and pollution control agencies. Protect water intakes.		4.2 Flammable Limits in Air: Not pertinent		7.2 Storage Temperature: Currently not available		7.3 Inert Atmosphere: Currently not available											
Exposure CALL FOR MEDICAL AID. SOLID OR SOLUTION POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED. Irritating to skin, 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.		4.3 Fire Extinguishing Agents: Water spray, dry chemical, foam or carbon dioxide for fires involving solutions of aldrin in hydrocarbon solvents.		7.4 Venting: Currently not available		7.5 IMO Pollution Category: Currently not available											
Water Pollution 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.		4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent		7.6 Ship Type: Currently not available		7.7 Barge Hull Type: Currently not available											
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim; Dredge Chemical and Physical Treatment: Absorb Clean shore line Salvage waterfowl Do not burn				4.5 Special Hazards of Combustion Products: Irritating fumes of hydrochloric acid and chlorinated decomposition products are given off 4.6 Behavior in Fire: Not pertinent 4.7 Auto Ignition Temperature: Not pertinent 4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: Not pertinent 4.10 Adiabatic Flame Temperature: Not pertinent 4.11 Stoichiometric Air to Fuel Ratio: Not pertinent 4.12 Flame Temperature: Not pertinent 4.13 Combustion Molar Ratio (Reactant to Product): Currently not available 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed				8. HAZARD CLASSIFICATIONS									
2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed 2.2 Formula: C ₂₁ H ₁₆ Cl ₆ 2.3 IMO/UN Designation: 6.1/1542 2.4 DOT ID No.: NA2761 2.5 CAS Registry No.: 309-00-2 2.6 NAERG Guide No.: 151 2.7 Standard Industrial Trade Classification: 59110				8.1 49 CFR Category: Poison 8.2 49 CFR Class: 6.1 8.3 49 CFR Package Group: II 8.4 Marine Pollutant: Yes 8.5 NFPA Hazard Classification: <table border="1"> <thead> <tr> <th>Category</th> <th>Classification</th> </tr> </thead> <tbody> <tr> <td>Health Hazard (Blue)</td> <td>2</td> </tr> <tr> <td>Flammability (Red)</td> <td>0</td> </tr> <tr> <td>Instability (Yellow)</td> <td>0</td> </tr> </tbody> </table>				Category	Classification	Health Hazard (Blue)	2	Flammability (Red)	0	Instability (Yellow)	0	8.6 EPA Reportable Quantity: 1 8.7 EPA Pollution Category: X 8.8 RCRA Waste Number: P004 8.9 EPA FWCPC List: Yes	
Category	Classification																
Health Hazard (Blue)	2																
Flammability (Red)	0																
Instability (Yellow)	0																
3. HEALTH HAZARDS 3.1 Personal Protective Equipment: During prolonged exposure to mixing and loading operations, wear clean synthetic rubber gloves and mask or respirator of the type passed by the U.S. Bureau of Mines for aldrin protection.				5. CHEMICAL REACTIVITY				9. PHYSICAL & CHEMICAL PROPERTIES									
3.2 Symptoms Following Exposure: Ingestion, inhalation, or skin absorption of a toxic dose will induce nausea, vomiting, hyperexcitability, tremors, epileptiform convulsions, and ventricular fibrillation. Aldrin may cause temporary reversible kidney and liver injury. Symptoms may be seen after ingestion of less than 1 gram in an adult; ingestion of 25 mg has caused death in children.				5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No reaction 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent				9.1 Physical State at 15° C and 1 atm: Solid 9.2 Molecular Weight: 364.93 9.3 Boiling Point at 1 atm: Not pertinent 9.4 Freezing Point: 219°F = 104°C = 377°K 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 1.6 at 20°C (solid)									
3.3 Treatment of Exposure: SKIN CONTACT: wash with soap and running water. If material gets into eyes, wash immediately with running water for at least 15 minutes; get medical attention. INGESTION: call physician immediately; induce vomiting immediately. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Keep patient prone and quiet. PHYSICIAN: administer barbituates as anti-convulsant therapy. Observe patient carefully because repeated treatment may be necessary.				6. WATER POLLUTION				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: Not pertinent 9.14 Heat of Decomposition: Not pertinent 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									
3.4 TLV-TWA: 0.25 mg/m ³ 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 3; LD ₅₀ to 500 mg/kg (rat) 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Chronic exposure produces benign tumors in mice. 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause slight smarting of the eyes or respiratory system if present in high concentrations. Effect is temporary. 3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening if the skin. 3.12 Odor Threshold: Currently not available 3.13 IDLH Value: 25 mg/m ³ . 3.14 OSHA PEL-TWA: 0.25 mg/m ³ . 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed				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
68	0.000		NOT PERTINENT		NOT PERTINENT		NOT PERTINENT