

**ALDRIN****ICSC: 0774****Date of peer-review: March 1998**

1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene  
 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4aβ,5alpha,8alpha,8aβ)  
 HHDN

CAS # 309-00-2  $C_{12}H_8Cl_6$   
 RTECS # IO2100000 Molecular mass: 364.9  
 UN # 2761  
 EC # 602-048-00-3

TYPES OF HAZARD / EXPOSURE	ACUTE HAZARDS / SYMPTOMS	PREVENTION	FIRST AID / FIRE FIGHTING
<b>FIRE</b>	Not combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: all extinguishing agents allowed.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST! STRICT HYGIENE! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!</b>	
<b>Inhalation</b>	(See Ingestion).	Ventilation (not if powder).	Fresh air, rest. Refer for medical attention.
<b>Skin</b>	MAY BE ABSORBED! See Ingestion.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>Eyes</b>		Safety goggles, or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Convulsions. Dizziness. Headache. Nausea.	Do not eat, drink, or smoke during work.	Give a slurry of activated charcoal in

	Vomiting. Muscle twitching.	Wash hands before eating.	water to drink. Do NOT induce vomiting. Rest. Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>		<b>PACKAGING &amp; LABELLING</b>	
Do NOT wash away into sewer. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. (Extra personal protection: chemical protection suit including self-contained breathing apparatus).		Do not transport with food and feedstuffs. Severe marine pollutant. <b>EU Classification</b> Symbol: T, N R: 24/25-40-48/24/25-50/53 S: (1/2-)22-36/37-45-60-61 <b>UN Classification</b> UN Hazard Class: 6.1 UN Pack Group: II	
<b>EMERGENCY RESPONSE</b>		<b>STORAGE</b>	
Transport Emergency Card: TEC (R)-61G41b. NFPA Code: H2; F0; R0;		Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs and incompatible materials: See Chemical Dangers. Well closed. Keep in a well-ventilated room.	

**IPCS**

International  
Programme on  
Chemical  
Safety



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**ALDRIN**

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#### IMPORTANT DATA

**PHYSICAL STATE; APPEARANCE:**  
COLOURLESS CRYSTALS

**CHEMICAL DANGERS:**

The substance decomposes on heating producing toxic and corrosive fumes including hydrogen chloride. Reacts with acids and oxidants. Attacks many metals in presence of water.

**OCCUPATIONAL EXPOSURE LIMITS:**

TLV: 0.25 mg/m<sup>3</sup> (as TWA), A3 (skin) (ACGIH 1997).

**ROUTES OF EXPOSURE:**

The substance can be absorbed into the body through the skin and by ingestion.

**INHALATION RISK:**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.

**EFFECTS OF SHORT-TERM EXPOSURE:**

The substance may cause effects on the central nervous system, resulting in convulsions. The effects may be delayed. Medical observation is indicated.

	<b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance accumulates in the human body. Cumulative effects are possible: see Acute Hazards/Symptoms.
<b>PHYSICAL PROPERTIES</b>	
Boiling point at 0.27kPa: 145°C Melting point: 104-105°C Density: 1.6 g/cm <sup>3</sup> Solubility in water: none Vapour pressure, Pa at 20°C: 0.009	Octanol/water partition coefficient as log Pow: 7.4
<b>ENVIRONMENTAL DATA</b>	
The substance is very toxic to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to birds, honey bees. In the food chain important to humans, bioaccumulation takes place, specifically in aquatic organisms. It is strongly advised not to let the chemical enter into the environment because it persists in the environment. The substance may cause long-term effects in the aquatic environment. Avoid release to the environment in circumstances different to normal use.	
<b>NOTES</b>	
Other melting points: 49-60°C (technical grade). Depending on the degree of exposure, periodic medical examination is indicated. If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s). Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home. The recommendations on this Card also apply to ICSC # 0787 (dieldrin). Aldrec, Aldrex, Aldrite, Aldron, Aldrosol, Algran, Alttox, Drinox, Octalene, Seedrin, and Toxadrin are trade names.	
<b>ADDITIONAL INFORMATION</b>	
<b>LEGAL NOTICE</b>	Neither the CEC nor the IPCS nor any person acting on behalf of the CEC or the IPCS is responsible for the use which might be made of this information
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See Also:

[Toxicological Abbreviations](#)

[Aldrin \(PIM 573\)](#)

[Aldrin \(FAO Meeting Report PL/1965/10/1\)](#)

[Aldrin \(FAO/PL:CP/15\)](#)

[Aldrin \(FAO/PL:1967/M/11/1\)](#)

[Aldrin \(IARC Summary & Evaluation, Supplement7, 1987\)](#)

[Aldrin \(IARC Summary & Evaluation, Volume 5, 1974\)](#)