

Common Name: **ALDRIN**

Synonyms: HDDN; Octalene

CAS No: 309-00-2

 Molecular Formula: C<sub>12</sub>H<sub>8</sub>Cl<sub>6</sub>

RTK Substance No: 0033

Description: White to brown, crystalline solid, or a brown liquid, with a mild chemical odor

## HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<b>3 - Health</b> <b>0 (Solid) - Fire</b> <b>3 (Liquid)- Fire</b> <b>0 - Reactivity</b> <b>DOT#:</b> UN 2761 (Solid) UN 2762 (Liquid) <b>ERG Guide #:</b> 151 (Solid) 131 (Liquid) <b>Hazard Class:</b> 6.1 (Poison) (Solid) 3 (Flammable) (Liquid)	<b>Aldrin</b> does not burn, however, it is often dissolved in a liquid carrier which may be flammable or combustible. Use dry chemical, CO <sub>2</sub> , water spray, alcohol-resistant foam or other foam as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Hydrogen Chloride</i> . Use water spray to keep fire-exposed containers cool.	<b>Aldrin</b> is not compatible with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); ACID CATALYSTS; and PHENOL. <b>Aldrin</b> may attack METALS in the presence of WATER.

## SPILL/LEAKS

**Isolation Distance:**

Spill (solid): 25 meters (75 feet)

Spill (liquid): 50 meters (150 feet)

Fire: 800 meters (1/2 mile)

 Absorb **Aldrin** in *liquid solution* in vermiculite, dry sand, earth, or a similar material and place into sealed containers for disposal.

 Moisten *solid Aldrin* first or use a HEPA-filter vacuum for clean-up and place into sealed containers for disposal.

DO NOT wash into sewer.

 Keep **Aldrin** in *liquid solution* out of confined spaces, such as sewers, because of the possibility of an explosion.

 Use only non-sparking tools and equipment, especially when opening and closing containers of **Aldrin** in *liquid solution*.

**Aldrin** is very toxic to aquatic organisms and the environment. It bioaccumulates and has long-term effects.

## PHYSICAL PROPERTIES

<b>Odor Threshold:</b>	Mild chemical odor
<b>Vapor Pressure:</b>	8 x 10 <sup>-5</sup> mm Hg at 68°F (20°C)
<b>Specific Gravity:</b>	1.6 (solid) (water = 1)
<b>Water Solubility:</b>	Very slightly soluble
<b>Boiling Point:</b>	Decomposes
<b>Melting Point:</b>	219°F (104°C)
<b>Molecular Weight:</b>	365

## EXPOSURE LIMITS

**OSHA:** 0.25 mg/m<sup>3</sup>, 8-hr TWA

**NIOSH:** 0.25 mg/m<sup>3</sup>, 10-hr TWA

**ACGIH:** 0.05 mg/m<sup>3</sup>, 8-hr TWA

**IDLH:** 25 mg/m<sup>3</sup>

The Protective Action Criteria values are:

 PAC-1 = 0.25 mg/m<sup>3</sup> PAC-2 = 10 mg/m<sup>3</sup>

 PAC-3 = 25 mg/m<sup>3</sup>

## PROTECTIVE EQUIPMENT

<b>Gloves:</b>	Silver Shield®/4H®, Viton and Barrier® (>4-hr breakthrough for <i>Hydrocarbons, aliphatic, unsaturated</i> )
<b>Coveralls:</b>	Tychem® BR, Responder®, and TK; Trelchem® HPS and VPS (>8-hr breakthrough for <i>Hydrocarbons, aliphatic, unsaturated</i> )
<b>Respirator:</b>	SCBA

## HEALTH EFFECTS

<b>Eyes:</b>	Irritation
<b>Skin:</b>	Irritation
<b>Inhalation:</b>	Headache, dizziness, nausea and vomiting, convulsions and even death
<b>Chronic:</b>	Cancer (liver) in animals

## FIRST AID AND DECONTAMINATION

**Remove** the person from exposure.

**Flush** eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

**Quickly** remove contaminated clothing and wash contaminated skin with large amounts of soap and water.

**Begin** artificial respiration if breathing has stopped and CPR if necessary.

**Transfer** promptly to a medical facility.