

# ALASKA TOP HAZARDOUS AIR POLLUTANTS

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## 4,6-DINITRO-O-CRESOL (and salts)

#10	<a href="#">Minimum Risk Level</a>
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The inventory method and available data do not indicate emissions occurring in the three inventoried communities. However, this does not mean there are no emissions of this pollutant in the state.

### Minimum Risk Level

- 4,6-Dinitro-o-Cresol, and salts - 0.004 mg/kg/day for neurological effects - people

### Inventory Estimates of 4,6-Dinitro-o-cresol

Community	Ranking by Mass	Total Emitted (tons per year)	Top Sources
Anchorage*	n/a	---	n/a
Fairbanks*	n/a	---	n/a
Juneau*	n/a	---	n/a
Total of 3 Communities		---	

\* No data to indicate emissions

### 4,6-Dinitro-o-Cresol Sources Expected\* in Alaska

\* No data to indicate emissions

### Potential Occupational Exposure to 4,6-Dinitro-o-Cresol

- Use as pesticide in US was banned in 1991. 4,6-Dinitro-o-Cresol was used on fruit trees for blossom thinning and protection from locusts. It was also used on cereals to control weeds.

### 4,6-Dinitro-o-Cresol Emission Inventory\* Improvements

\* No data to indicate emissions

### 4,6-Dinitro-o-Cresol Compound Health Effects

There is not a lot of data correlating air concentrations to specific health effects. Short term exposures to high concentrations led to nausea, stomach upset, sleeplessness, flushed skin and sweating, increased heartbeat, and if exposure was high enough, blueing of the skin, collapse and coma. Long term exposures to lower concentrations led to fatigue, anxiety, sweat, thirst and weight loss. Possible effects on the eyes occur as well. A yellow coloring of hands, nails and hair may occur. Levels around 5 mg/m<sup>3</sup> led to symptoms of fever, rapid pulse and respiration, shortness of breath and a cough. This went away around 2.5 mg/m<sup>3</sup>.

**Cancer ranking:** EPA has not classified 4,6-Dinitro-o-Cresol for potential carcinogenicity.