

# ALASKA TOP HAZARDOUS AIR POLLUTANTS

## LINDANE

#10	Non Cancer Endpoint
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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.

### Reference Concentration (from the California Environmental Protection Agency)

- Lindane- 0.0003 mg/m<sup>3</sup> for kidney effects - rats

### Inventory Estimates of Lindane

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

### Lindane Sources Expected\* in Alaska

\* No data to indicate emissions

### Potential Occupational Exposure to Lindane

- pesticide application (no aerial application allowed)
- lindane production

### Lindane Emission Inventory\* Improvements

\* No data to indicate emissions

### Lindane Health Effects

There is not enough data to ascertain specific effects from specific exposure concentrations. Some studies indicate the following: Acute exposure led to headache, nausea, irritation of eyes, nose and throat, blood

alterations, and skin effects. Longer term exposures can lead to a decrease in red and white blood cells, effects on the immune and nervous system, liver and kidney.

**Cancer ranking:** EPA considers lindane to be a possible human cancer-causing agent and has ranked it in Group B2/C. There is good animal evidence of lindane's cancer causing abilities, but little to no human evidence.