

ALASKA TOP HAZARDOUS AIR POLLUTANTS

ETHYLENE DIBROMIDE

#9

Non Cancer Endpoint

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

- Ethylene Dibromide - 0.0002 mg/m³ for reproductive effects - humans

Inventory Estimates of Ethylene Dibromide

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

Ethylene Dibromide Sources Expected* in Alaska

* No data to indicate emissions

Potential Occupational Exposure to Ethylene Dibromide

treatment for bark beetles and termites,	control of wax moths in beehives	intermediate in production of dyes, resins, waxes, and gums
in past, used as an additive to leaded gasoline	Pesticide application - banned in 1984	

Ethylene Dibromide Emission Inventory* Improvements

* No data to indicate emissions

Ethylene Dibromide Health Effects

There is not enough data to ascertain specific effects from specific exposure concentrations. Some studies indicate the following: Long term inhalation of lower concentrations (80 ppb) may lead to decreased sperm count and sperm cell abnormalities. Inhalation leads to delayed onset of sores in the lungs. Exposed persons become tired. Death may occur due to heart or respiratory failure, complicated by fluid in the lungs. Concentrations of more than 30 ppm may be fatal, after a progression of symptoms occurring several days after the exposure.

Cancer ranking: EPA has classified ethylene dibromide in Group B2, a probable human carcinogen. Based on tumor development in rats and mice.