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# ALASKA TOP TEN HAZARDOUS AIR POLLUTANTS



## **Inventory Estimates**

Community	Total Emitted (tons per year)	Top Sources
Anchorage	172	Dry cleaners
Fairbanks	55	Dry cleaners
Juneau	20	Dry cleaners
Total of 3 Communities	247	

### Perchlorethylene/Tetrachloroethylene Sources

- Dry cleaners
- · Typewriter correction fluid
- Shoe polish

#### Perchlorethylene/Tetrachloroethylene Emission Inventory Improvements

- Measure perchloroethylene/tetrachloroethylene amounts used in each dry cleaning facility rather than estimate emissions based on population data
- Assess other sources of perchloroethylene/tetrachloroethylene (e.g. wastewater facility)

#### Perchlorethylene/Tetrachloroethylene Health Effects

**Low level (< 100 ppm)**: Possible respiratory irritant. Possible liver and renal disfunction from long term exposures. Odor threshold between 5 and 50 ppm.

**Medium level (100 –200 ppm)**: Effect on livers. Prolonged exposure leads to beginning of CNS depression and early renal dysfunction. Irritation to eyes and mucous membranes.

**High level (> 200 ppm)**: Intense irritation of lungs and eyes, kidney dysfunction, mood swings, behavioral changes, clumsiness, and numbing of the body, death

**Cancer ranking**: EPA classified as a possible to probable human carcinogen. However, EPA has not assessed a lifetime risk of cancer.