

# ALASKA TOP TEN HAZARDOUS AIR POLLUTANTS

<b>#7</b>	<b>HEXANE</b>	
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## Inventory Estimates

Community	Total Emitted (tons per year)	Top Sources
Anchorage	86	natural gas home heating, consumer products
Fairbanks	33	oil home heating, consumer products, snowmobiles
Juneau	38	outboards, personal water craft
Total of 3 Communities	157	

## Hexane Sources

vehicles	consumer products like automotive care and sealants	boats
home heating	aircraft	airports
military bases	locomotives	off-road equipment like construction equipment and chainsaws
hospitals	service stations	fish processors
open burning	refineries	

## Hexane Emission Inventory Improvements

- Refine off-road assessments such as locomotives if possible
- Refine evaporative emissions from fuel storage, loading and dispensation
- Refinement of emission factor data

## Hexane Health Effects

**Low level (<50 ppm):** Nerve cell death over lifetime exposures.

**Medium level (50 - 500):** Evidence of nerve cell death over long term (lifetime) exposures. As concentration increases, less time necessary for nerve cell death to occur. Odor recognition around 130 ppm.

**High level (500 - 1000 ppm):** Eye and upper respiratory track irritation. Nerve cell death after a few months exposure.

**Very High level (>1000 ppm):** For short time frames (10 minutes) very little effect at 2000 ppm. 5000 ppm for 10 minutes causes dizziness. Some giddiness, nausea, headache, eye and throat irritation. CNS depression, respiratory arrest, and death nerve cell death in extremities, blurred vision.

**Cancer ranking:** EPA has not classified hexane as a human carcinogen.

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