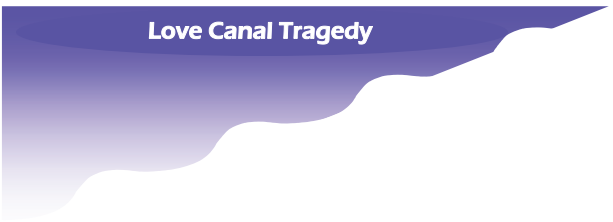


What is the Love Canal and how does it affect humans?

In the 1920's the Love Canal was used as a landfill close to the Niagara River. However, when the Hooker Chemical Company purchased the land they had buried around 22,000 tons of toxic chemicals and waste. They covered it up with clay and dirt and sold the land to the city, but they broke through the seal they had covered up. This is where health problems and serious concern took place. Many health problems started to surface such as; urinary infections, asthma, miscarriages, epilepsy, and birth defects. The community was sitting on top of what used to be the landfill for the chemical company. Finally, in 1980 the EPA declared a state of emergency and evacuated the community. Dioxin is a part of what caused this disaster. Dioxin has been known to cause many health related issues such as; developmental abnormalities, thyroid disorders, and Diabetes. Dioxin must be contained because it is highly toxic, just 3 ounces of dioxin can kill over 1 million people.

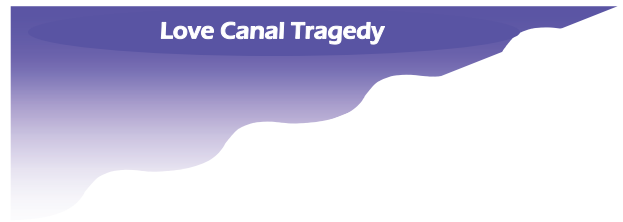


Informative Websites Pertaining to Dioxin:

- www.epa.gov/ncea/dioxin.htm
- <http://en.wikipedia.org/wiki/Dioxin>
- <http://www.ejnet.org/dioxin/>
- <http://www.dioxinfacts.org/>

Brought to you by:

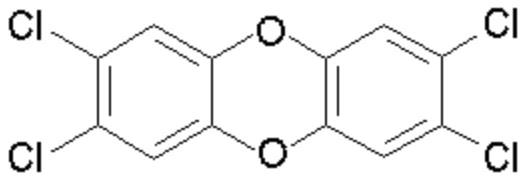
- Crystal Bley
- Ashley Glatting
- Amanda Luse
- Megan Murphy
- Heather Richter



Dioxin: Health Effects



General Information about Dioxin



- Generic term for 200+ compounds, all of which contain chlorine
- Size and shape allows it to bond to cell tissues
- Does not dissolve and wash away or turn into gas easily
- Formed by burning chlorine-based chemical compounds with hydrocarbons
- Most **toxic** is 2,3,7,8-tetrachlorodibenzo-para-dioxin (also called **TCDD**)

Health Effects

When coming into contact, there may be increased risks of:

- Chloracne—a skin disease marked by severe acne-like pimples
- Cancer
- Reproductive and Developmental Problems
- Heart Disease
- Diabetes



Found Almost Everywhere

In the:

- Food
- Atmosphere
- Soil
- River



Can Be Caused by:

- Manufacture of certain herbicides
- Manufacture of bleached paper
- Burning of PVC plastics