HEALTH EFFECTS OF CHEMICALS USED IN FRACKING

BY THE NUMBERS

- 980: Number of Fracking Chemical "Products" We Know About
- 649: Number of Chemicals in the 980 Fracking "Products"
- 90%: "Products" Containing Chemicals that Have Adverse Health Effects
- 43%: "Products" that We Know Less Than 1% of the Chemicals in Them

WHAT’S A “PRODUCT”?

A PRODUCT MAY CONTAIN MORE THAN ONE CHEMICAL. A CHEMICAL MAY BE IN MORE THAN ONE PRODUCT.

FOR THE 56% OF FRACKING CHEMICALS WE CAN IDENTIFY

58% Soluble in Water

36% Volatile

Smaller Percentage, But Bigger Impact. These Chemicals Can Be Inhaled, Swallowed, and/or Absorbed Through the Skin

BODY SYSTEMS AFFECTED BY FRACKING CHEMICALS*

*Shown with % of Chemicals Affecting Each Body System

- Soluble Chemicals in Blue and Volatile Chemicals in Red

ENDOCRINE SYS.

- 46% 56% Soluble Volatile

BRAIN/NERVOUS SYS.

- 66% 89% Soluble Volatile

IMMUNE

- 46% 51% Soluble Volatile

CARDIO/CIRC. SYS.

- 56% 72% Soluble Volatile

RESPIRATORY

- 93% 97% Soluble Volatile

KIDNEY

- 56% 66% Soluble Volatile

LIVER/G.I.

- 89% 93% Soluble Volatile

SKIN

- 93% 97% Soluble Volatile

CANCER

- 23% 33% Soluble Volatile

OTHER

- (Most often cited as death. Also includes changes in weight, effects on bones and teeth.)

- 56% 78% Soluble Volatile

MUTAGEN

- 33% 35% Soluble Volatile

A "CAS" NUMBER IS A UNIQUE NUMBER ASSIGNED TO EVERY CHEMICAL DESCRIBED IN THE OPEN SCIENTIFIC LITERATURE.

ALL IMAGES FROM THE MAIN PROJECT——