

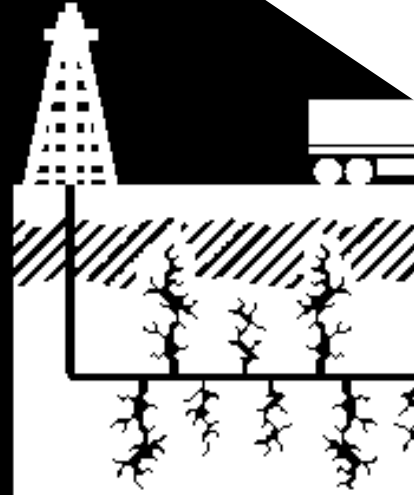
HEALTH EFFECTS OF CHEMICALS USED IN FRACKING

INFOGRAPHIC BY PHYSICIANS FOR SOCIAL RESPONSIBILITY- LOS ANGELES | WWW.PSR-LA.ORG
 BASED ON "NATURAL GAS OPERATIONS FROM A PUBLIC HEALTH PERSPECTIVE" | WWW.ENDOCRINEDISRUPTION.ORG
 COLBORN, THEO, ET AL. "NATURAL GAS OPERATIONS FROM A PUBLIC HEALTH PERSPECTIVE." HUMAN AND ECOLOGICAL RISK
 ASSESSMENT: AN INTERNATIONAL JOURNAL 17.5 (2011): 1039-1056.



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%

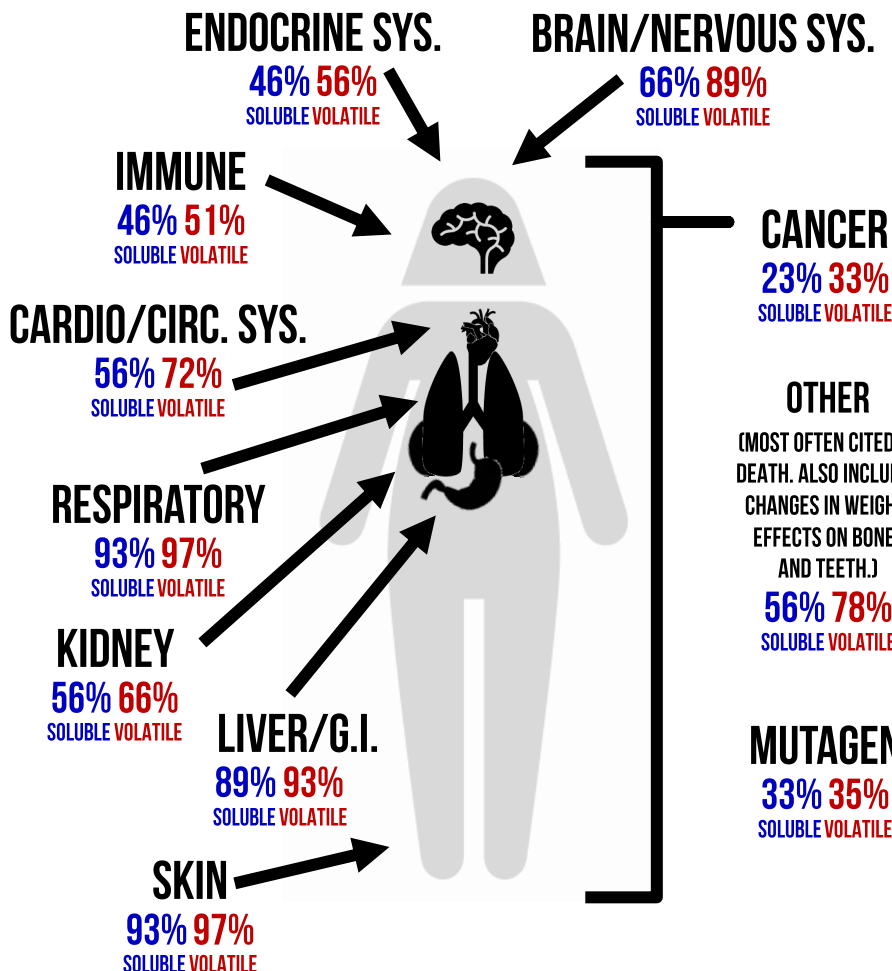
VOLATILE

SMALLER PERCENTAGE, BUT BIGGER IMPACT. THESE CHEMICALS CAN BE INHALED, SWALLOWED, AND/OR ABSORBED THROUGH THE SKIN

ALL IMAGES FROM THE NOUN PROJECT —
 FRACKING: TOM ANANTWERP,
 STOMACH: SERG DELGADO GARCIA,
 HEART: CATHERINE PLEASE,
 LUNGS: JORIS HOOGEN-DOORN,
 WATER DROP: CRIS DOBBINS,
 CLOUD: JAMES FENTON,
 QUESTION CLOUD: ANAS RAMADAN,
 WOMAN: LUIS PRADO

BODY SYSTEMS AFFECTED BY FRACKING CHEMICALS*

SHOWN WITH % OF CHEMICALS AFFECTING EACH BODY SYSTEM (SOLUBLE CHEMICALS IN BLUE AND VOLATILE CHEMICALS IN RED)



CHEMICALS WITH A "CAS" NUMBER

WHAT'S A "CAS" NUMBER?



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