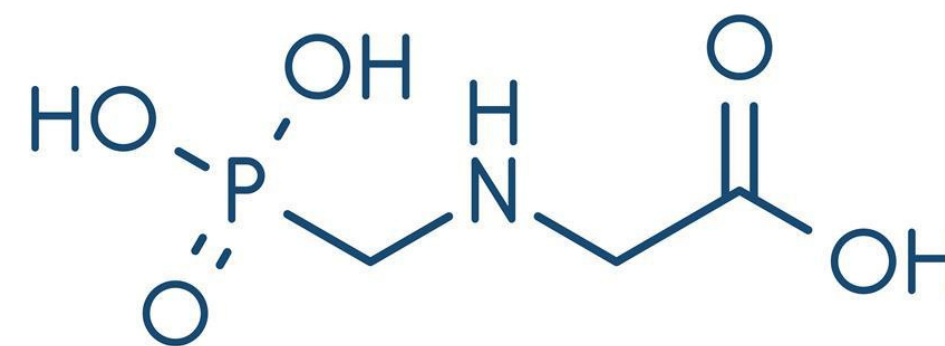


GLYPHOSATE FACT SHEET

Know the facts. Protect your health.

What is Glyphosate?

- Glyphosate is the key ingredient in the world's most common herbicide; Monsanto's Roundup is 41% glyphosate
- Glyphosate is a non-selective herbicide that will kill most plants
- Glyphosate has been listed on the California Proposition 65 List of dangerous chemicals since July 2017; chemicals on this list are classified as having the ability to cause cancer, birth defects, or other reproductive harm
- The World Health Organization (WHO)'s International Agency for Research on Cancer (IARC) declared glyphosate an animal carcinogen and probable human carcinogen, leading it to be added to the Prop 65 list
- IARC found that rodents exposed to glyphosate were more likely to develop tumors



glyphosate

Glyphosate and Farming

- Since 2015, 95% of all grain, corn, and soy have been genetically modified to be exposed to glyphosate in the form of Roundup
- 250 million pounds of glyphosate are applied to crops annually, leaving residues on common food products
- In 2011, the US Department of Agriculture revealed the presence of glyphosate residues in 90.3% of 300 soybean samples at the concentration of 1.9 parts per million
- Glyphosate is commonly used in agriculture in the United States as a drying agent on grain crops before harvesting



- Glyphosate has been detected in the urine of a high proportion (30-80%) of farm animals and farmers in various studies

Over 20 other countries have legislation banning or regulating glyphosate-based herbicides

Glyphosate and The Environment

- Glyphosate runoff can contaminate and accumulate in groundwater and soil
- This chemical can affect growth and metabolic functions of vital microorganisms in soil and water
- Glyphosate contamination can cause detrimental eutrophication in water systems, when a body of water becomes overly enriched and uninhabitable to wildlife
- Recently, there have been more instances of glyphosate-resistant weeds and plants



GLYPHOSATE FACT SHEET

Know the facts. Protect your health.

Health Effects of Glyphosate

- There are links between glyphosate exposure and non-Hodgkin's lymphoma
- Even low and environmentally-recommended concentrations of glyphosate can disrupt the hormonal system of humans
- Glyphosate can pass from the mother to child during pregnancy
- Several studies report that glyphosate can induce single and double strand DNA breaks
- Correlations have been found between increased glyphosate use and a wide variety of human diseases, including various forms of cancer, kidney damage and mental conditions such as ADHD, autism, Alzheimer's and Parkinson's disease
- Even low and environmentally-recommended concentrations of glyphosate can disrupt the hormonal system of humans
- Glyphosate residues in food products can cause pathologic changes in the body similar to Celiac disease



Why Should We Be Concerned?

- Despite troubling impacts to human health, there is still no Proposition 65 warning label requirement for glyphosate; Monsanto and other interest groups blocked this action in 2017 by suing the Attorney General
 - Potential health effects of glyphosate on young populations during puberty and development are unknown
 - Without proper labels, consumers are not properly informed about chemicals in food products consumed regularly

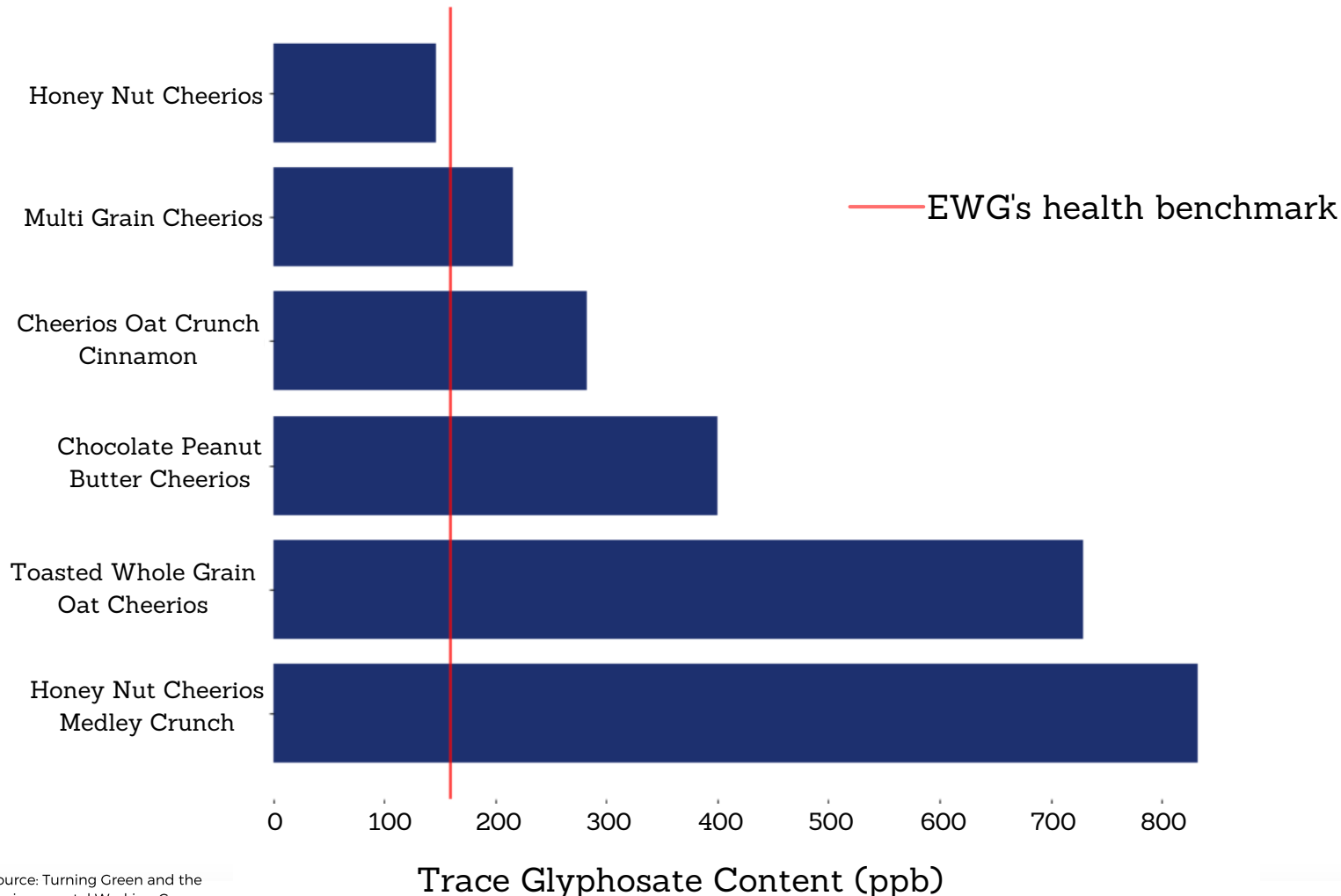


Safe Harbor Levels

- Safe harbor levels are defined as levels of exposure that trigger warning requirements
- The Environmental Protection Agency's (EPA) benchmark for glyphosate is about 1100 parts per billion (ppb), but this legal limit was set in 2008, prior to IARC and other prominent scientific research that declared the chemical a probable human carcinogen
- The Environmental Working Group (EWG) set its safe harbor benchmark for glyphosate at 160 ppb
- Glyphosate residues have been found in common breakfast cereals, like Honey Nut Cheerios, at alarming levels (see graph to the left)



Oat breakfast cereals tested by the EWG in 2019



Source: Turning Green and the Environmental Working Group

Join the movement to protect our right to health!

Learn more and get involved:

consciouskitchen.org

info@turninggreen.org

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