

**BEYOND
PESTICIDES**Pesticide-Induced Diseases
DatabaseSafety Source on Pesticide
Providers

ManageSafe™

Eating with a Conscience

Pesticides and You Journal

Daily News

State Pages

YouTube Channel

Media

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Updated March 2019

General Information

- Fact Sheet: [bp-fact-glyosphate.082017.pdf](#)
- Product Names:
- Chemical Class: Phosphanoglycine herbicide
- Uses: Non selective herbicide, or at low rates a plant growth regulator
- Alternatives: Organic agriculture, Organic land management
- Beyond Pesticides rating: Toxic

Health and Environmental Effects

- Cancer: Yes (6, 70)
- Endocrine Disruption: Yes (7)
- Reproductive Effects: Yes (13, 8)
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Yes (7)
- Sensitizer/ Irritant: Yes (8)
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (4)
- Toxic to Bees: Not documented

Residential Uses as Found in the ManageSafe™ Database

- Dandelions
- Annual Bluegrass
- Clover
- Ground Ivy
- Japanese Knotweed
- Chickweed

Additional Information

- Regulatory Status:
 - Beyond Pesticides' Draft Human Health and Ecological Risk Assessments for Glyphosate comments (04/2018)
 - Draft Human Health and Ecological Risk Assessments for Glyphosate (2017)
 - Revised Glyphosate Issue Paper: Evaluation of Carcinogenic Potential (2017)
 - Beyond Pesticides' Evaluation of the Carcinogenic Potential comments (10/2016)
 - Glyphosate Listed Effective July 7, 2017, as Known to the State of California to Cause Cancer (OEHHA, 2017)
 - Beyond Pesticides' Notice of Intent to List (California) comments (10/2015)
 - Beyond Pesticides' Enlist Duo registration comments (12/2016)
 - EPA Meeting Materials for the December 13-16, 2016 Scientific Advisory Panel on the Carcinogenic Potential of Glyphosate.
 - Registration of Enlist Duo (EPA, 2014)
 - Final work plan for Glyphosate Registration review (2009)
 - EPA Reregistration Eligibility Decision (RED) signed (9/1993)
- Supporting information:
 - Daily News Blog
 - Report- Glyphosate: Unsafe on Any Plate
 - Beyond Pesticides' letter to EPA calling for residue testing (12/2015)
 - Agricultural Uses of Antibiotics Escalate Bacterial Resistance (Pesticides and You, Winter 2016-2017)
 - Asthma, Children and Pesticides (Beyond Pesticides)
 - Children & Lawn Chemicals Don't Mix (Beyond Pesticides)
 - GMO Factsheet (Beyond Pesticides)
 - NCAP Glyphosate Factsheet (Northwest Coalition for Alternatives to Pesticides)
 - PAN Pesticides Database: Glyphosate (Pesticide Action Network)
 - Scorecard Glyphosate Factsheet (Environmental Defense Fund)
 - PAN UK Glyphosate Factsheet (Pesticide Action Network UK)
 - CHEJ Glyphosate Factsheet (Children's Health Environmental Coalition)
 - EPA Technical Factsheet
- Studies:

UPDATES FROM THE**DAILY NEWS BLOG**

Take Action: Ban Glyphosate, Adopt Organic
April 9, 2019

TOP

Following a Finding that Roundup Caused Plaintiff's Cancer, Jury Awards \$80 Million in First Federal Case
April 3, 2019

Autism Linked to Wide Range of Commonly Used Pesticides
March 27, 2019

Another Study Links Glyphosate to Cancer
March 26, 2019

A Second Jury Delivers Blow to Bayer/Monsanto's Claim that Glyphosate/Roundup Is Safe
March 20, 2019

A Pesticide Distributor, an Insurance Company, a Major City, and a Scientific Study Nix Glyphosate (Roundup)
March 15, 2019

Nutrient Runoff, Aquatic Weed Killers, and Florida's Red Tide Collide in Public Debate
March 6, 2019

Glyphosate Use in Forestry Drifts on Wild, Edible Plants, Leading to Lasting Contamination
March 5, 2019

Study Confirms Findings on Carcinogenic Glyphosate, Suggests "Compelling Link"
February 28, 2019

Glyphosate Residue Found in 95% of Tested Beers and Wines
February 27, 2019

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Supporting Evidence. Zhang, L., Rana, I., Talbot, E., Sharrer, R.M. and Sheppard, L., 2019. Mutation Research/Reviews in Mutation Research.

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- **Multiomics reveal non-alcoholic fatty liver disease in rats following chronic exposure to an ultra-low dose of Roundup herbicide.** Mesnage, R, Renney, G, Seralini, GE, et al. 2017. Scientific Reports 7, Article number: 39328 TOP
- **Glyphosate pathways to modern diseases V: Amino acid analogue of glycine in diverse proteins.** Samsel, A, Seneff, S. 2016. J Biological Physics and Chemistry.16:9-46
- **IARC Classification of Glyphosate as a "probable" carcinogen (2015).**
Read the Daily News Blog
- **Transcriptome profile analysis reflects rat liver and kidney damage following chronic ultra-low dose Roundup exposure.** Mesnage, R, Arno, M, Contanzo, M et al., 2015. Environmental Health 14:70.
- **Glyphosate Formulations Induce Apoptosis and Necrosis in Human Umbilical, Embryonic, and Placental Cells.** Benachour, et al. 2009. Chem. Res. Toxicol. 22 (1), pp 97-105.
- **Do Pesticides Affect Learning Behavior? The neuro-endocrine-immune connection.** Porter, Warren. 2004. Pesticides and You (Beyond Pesticides)
- **A Case-Control Study of Non-Hodgkin Lymphoma and Exposure to Pesticides** Journal of the American Cancer Society, 1999.
- **Glyphosate formulations induce apoptosis and necrosis in human umbilical, embryonic, and placental cells.** Benachour N, Seralini GE. Chemical Research in Toxicology. 2009 Jan;22(1):97-105
- **Top 15 Farmworker Poison**



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