

Proposition 65 Warnings Office of Environmental Health Hazard Assessment www.P65Warnings.ca.gov



Glyphosate

Should I be concerned about potential exposure to glyphosate?



- Glyphosate is on the <u>Proposition 65</u> list because it has been identified as a carcinogen.
- Proposition 65 requires businesses to determine if they must provide a warning about significant exposure to <u>listed chemicals</u>.

What is glyphosate?

- Glyphosate is a chemical used in herbicides to kill or suppress a variety of plants, including weeds and aquatic plants.
- Glyphosate-based herbicides have broad applications, from agricultural and commercial uses to home uses (including on lawns and gardens).
- Herbicides containing glyphosate or glyphosate salts are sold as liquids, gels, and solids.

How does exposure to glyphosate occur?

- Glyphosate-based herbicides can be applied to target plants directly or by using hand-held sprayers and wands or commercial ground and aerial sprayers.
- During their application, exposure can result from:
 - Skin contact.
 - Breathing in aerosol droplets.
- Glyphosate has been detected in a variety of foods, but available information on levels in food is limited. It is unclear if consumption of any specific food would pose a significant cancer risk from glyphosate exposure.
- During pregnancy, glyphosate can pass from mother to baby.

How can I reduce my exposure to glyphosate?

- ✓ Follow label directions in handling or use of glyphosate herbicides.
- On not handle or use glyphosate herbicides without skin protection, such as gloves. Wash your hands after handling or using glyphosate herbicides.
- ✓ Limit your and your child's contact with surfaces that have been recently treated with glyphosate herbicides. Wash your hands and your child's hands after contact with these materials or surfaces.

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OEHHA Glyphosate

For more information:

General Fact Sheets and Resources

World Health Organization (WHO)
 International Agency for Research on Cancer (IARC)

- Q&A on Glyphosate https://www.iarc.fr/en/media-centre/iarcnews/pdf/Q&A Glyphosate.pdf
- ▶ IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, vol. 112 (2017). "Glyphosate" in Some Organophosphate Insecticides and Herbicides, pages 321-412. https://publications.iarc.fr/549
- US Environmental Protection Agency (EPA)
 - ► EPA Releases Draft Risk Assessments for Glyphosate <u>https://www.epa.gov/pesticides/epa-releases-draft-risk-assessments-glyphosate</u>
 - Revised Glyphosate Issue Paper: Evaluation of Carcinogenic Potential https://cfpub.epa.gov/si/si public file download.cfm?p download id=534487
 - ▶ Pesticide Product Ingredients Page: Glyphosate https://www.epa.gov/ingredients-used-pesticide-products/glyphosate
- US Department of Health and Human Services (HHS)
 US Food and Drug Administration (FDA)
 - Questions and Answers on Glyphosate https://www.fda.gov/food/pesticides/questions-and-answers-glyphosate
- European Union (EU) European Chemicals Agency (ECHA)
 - ► ECHA News Release (March 15, 2017) https://echa.europa.eu/-/glyphosate-not-classified-as-a-carcinogen-by-echa
 - Committee for Risk Assessment: Opinion proposing harmonized classification and labelling at EU level of glyphosate (ISO); N-(phosphonomethyl)glycine https://echa.europa.eu/documents/10162/2f8b5c7f-030f-5d3a-e87e-0262fb392f38
- Joint FAO/WHO Meeting on Pesticide Residues (JMPR)
 - Summary Report (Diazinon, glyphosate, and malathion) http://www.who.int/foodsafety/jmprsummary2016.pdf
- National Pesticide Information Center (NPIC), Oregon State University (OSU)
 - ▶ Glyphosate General Fact Sheet http://npic.orst.edu/factsheets/glyphogen.html

Proposition 65

- California Environmental Protection Agency (CalEPA)
 Office of Environmental Health Hazard Assessment (OEHHA)
 - Proposition 65: Background https://www.p65warnings.ca.gov/faq
 - Proposition 65: The List of Chemicals https://www.p65warnings.ca.gov/chemicals
 - Proposition 65: Fact Sheets https://www.p65warnings.ca.gov/fact-sheets

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