

Chemical Factsheet

Thifensulfuron-methyl

General Information

- Product Names:
Harmony Extra (Dupont)
- Chemical Class: Sulfonylurea Herbicide
- Uses: A post-emergence herbicide for the control of grass and broad-leaved weeds.
- Alternatives: [Organic agriculture](#), [Organic land management](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See *citations* at end of document.

- Cancer: Insufficiently Studied
- Endocrine Disruption: Insufficiently Studied
- Reproductive Effects: Possible (1)
- Neurotoxicity: Likely (1)
- Kidney/Liver Damage: Possible (2); Spleen: Yes (1, 2)
- Sensitizer/ Irritant: Possible Irritant (1, 2)
- Birth/Developmental: Possible (1)
- Detected in Groundwater: Insufficiently Studied
- Potential Leacher: Insufficiently Studied
- Toxic to Birds: Possible (1)
- Toxic to Fish/Aquatic Organisms: Yes (1)
- Toxic to Bees: Possible (1)

Additional Information

- Regulatory Status:
 - [EPA Thifensulfuron Methyl Amended Final Work Plan](#) (4/2012)
 - [EPA Summary Document for Thifensulfuron methyl](#) (3/2011)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Pesticides and prostate cancer incidence and mortality: An environment-wide association study](#). Soerensen, S. et al. (2024) Pesticides and prostate cancer incidence and mortality: An environment-wide association study, *Cancer*. Available at: <https://acsjournals.onlinelibrary.wiley.com/doi/10.1002/cncr.35572>.

Gateway Health and Environmental Effects Citations

1. The University of Hertfordshire. 2021. PPDB: Pesticide Properties DataBase - Thifensulfuron-methyl <https://sitem.herts.ac.uk/aeru/ppdb/en/Reports/635.htm>
2. USEPA, 2010. Thifensulfuron-methyl; Pesticide Tolerances. *Federal Register*. <https://www.federalregister.gov/documents/2010/04/14/2010-8135/thifensulfuron-methyl-pesticide-tolerances>

Factsheet generated on February 1, 2026