

# Chemical Factsheet

## Oxadiazon

### General Information

- Product Names:
  - Crabgrass Control/Golf Products** (The Andersons)
  - Oxadiazon 2G** (FarmSaver, LLC)
  - Ronstar** (Bayer)
  - Two Ox SPC** (Nufram Americas Inc.)
- Chemical Class: Oxadiazole herbicide
- Uses: Pre-emergent or early post-emergent herbicide used to control grassy weeds (e.g., goosegrass and crabgrass) and broadleaf weeds in turf and ornamentals. Oxadiazon use sites are classified as nonfood sites (i.e., primarily golf course fairways), residential outdoor use, roadsides and nurseries.
- Alternatives: [Organic agriculture](#), [Organic Lawn care](#), [Organic Golf Courses](#)
- Beyond Pesticides rating: [Toxic](#)

### Health and Environmental Effects

*See citations at end of document.*

- Cancer: Yes (1, 2, 3)
- Endocrine Disruption: Likely (2, 4, 5)
- Reproductive Effects: Yes (6, 7)
- Neurotoxicity: Likely (2)
- Kidney/Liver Damage: Yes (6, 2, 3)
- Sensitizer/ Irritant: No (6, 8)
- Birth/Developmental: Yes (6, 7)
- Detected in Groundwater: Yes (9, 10)
- Potential Leacher: Not Likely (6)
- Toxic to Birds: Slightly (6, 11)
- Toxic to Fish/Aquatic Organisms: Likely (6, 12, 8)
- Toxic to Bees: Not Likely (6, 13)

### Additional Information

- Regulatory Status:
  - [Reregistration Eligibility Decision for Oxadiazon](#) (EPA)
- Supporting information:
  - [PAN Pesticides Database: Oxadiazon](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
  - [Pesticide contamination of bird species from Doñana National Park \(southwestern Spain\): Temporal trends \(1999-2021\) and reproductive impacts](#). Peris, A., Baos, R., Martínez, A., Sergio, F., Hiraldo, F. and Eljarrat, E., Available at SSRN 4312955.
  - [Organic farming reduces pesticide load in a bird of prey](#). Fuentes, E. et al. (2024) Organic farming reduces pesticide load in a bird of prey, Science of The Total Environment. Available at: <https://www.sciencedirect.com/science/article/pii/S0048969724029255>.

- [Immune response of Brazilian farmers exposed to multiple pesticides](#). Jacobsen-Pereira, C.H. et al. (2020) 'Immune response of Brazilian farmers exposed to multiple pesticides', *Ecotoxicology and Environmental Safety*, 202, p. 110912. doi:10.1016/j.ecoenv.2020.110912.

## Gateway Health and Environmental Effects Citations

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7. Pesticide Action Network Pesticide Database. [http://www.pesticideinfo.org/Search\\_Chemicals.jsp](http://www.pesticideinfo.org/Search_Chemicals.jsp).
8. Pietrzak, D., Kania, J., Malina, G., Kmiecik, E. and Wątor, K., 2019. Pesticides from the EU first and second Watch Lists in the water environment. *Clean-Soil, Air, Water*, 47(7), p.1800376. <https://doi.org/10.1002/clen.201800376>
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