

Chemical Factsheet

Bensulide

General Information

- Product Names:
 - Betamec 4 Pre-emergence Grass Killer** (PBI/Gordon)
 - Pre-San 7G** (PBI/Gordon)
 - Betasan** (PBI/Gordon)
 - Anderson Weedgrass Preventer** (Andersons Lawn Fertilizer Division)
 - Prefar 4-E** (Gowan)
- Chemical Class: Organophosphate herbicide
- Uses: Controls grassy weeds in agriculture, turf, and residential lawns
- Alternatives: [Organic Agriculture](#), [Organic lawn care](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Not documented
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- Neurotoxicity: Yes (1)
- Kidney/Liver Damage: Yes (2)
- Sensitizer/ Irritant: Yes (1)
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Yes (2)
- Toxic to Fish/Aquatic Organisms: Yes (2)
- Toxic to Bees: Yes (2)

Residential Uses as Found in the ManageSafe™ Database

- [Dandelions](#)
- [Annual Bluegrass](#)
- [Crabgrass](#)

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision \(RED\)](#) signed (7/06)
 - Beyond Pesticides' OP cumulative risk RED [comments](#)
- Supporting information:
 - [Daily News Blog entries](#) (Beyond Pesticides)
 - [Asthma, Children and Pesticides](#) (Beyond Pesticides)
 - [Extoxnet Aldicarb Factsheet: Bensulide](#) (Extension Toxicology Network)

- [PAN Pesticides Database: Bensulide](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Temporal trends of agricultural organophosphate pesticide use in California and proximity to pregnant people in 2021](#). Rotkin-Ellman, M., Carpenter, C., Richardson, M.J. et al. Temporal trends of agricultural organophosphate pesticide use in California and proximity to pregnant people in 2021. BMC Public Health 25, 3121 (2025).
<https://doi.org/10.1186/s12889-025-23939-y>

Gateway Health and Environmental Effects Citations

1. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles.
<http://extoxnet.orst.edu/pips/ghindex.html>
2. US EPA, Office of Prevention, Pesticides and Toxic Substances, Reregistration Eligibility Decisions (REDs), Interim REDS (iREDs) and RED Factsheets.
<https://archive.epa.gov/pesticides/reregistration/web/html/status.html>.

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