Chemical Factsheet

Prodiamine

General Information

- Chemical Class: Herbicide
- Uses: Rights-of-way, conifer and hardwood seedling nurseries, established perennial and wildflower plantings, established turf sites, residential and institutional lawns, commercial sod farms, golf courses, railways, and landscape ornamentals; Special Local Need (SLN) registrations in California and Arizona for use on irrigation drainage ditches, spreading grounds, channels, canals, and levees in wastewater treatment facilities
- Alternatives: **Organic agriculture**, **lawns/landscapes**, **golf course**
- Beyond Pesticides rating: Toxic

Health and Environmental Effects

See citations at end of document.

- Cancer: Yes (**1**)
- Endocrine Disruption: Suggestive Evidence (**1**, **2**)
- Reproductive Effects: Possible (**3**)
- Neurotoxicity: Yes (**1**)
- Kidney/Liver Damage: Not documented
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Possible (**3**)
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Not documented
- Toxic to Bees: Not documented

Residential Uses as Found in the ManageSafe™ Database

- Annual Bluegrass
- Crabgrass
- Knotweed

Additional Information

- Regulatory Status:
  - Prodiamine Summary Document (EPA, 2010)
- Supporting information:
  - Prodiamine Fact Sheet (NPIC)

Gateway Health and Environmental Effects Citations

1. 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.

2. Stoker, T.E. and Kavlock, R.J., 2010. Pesticides as endocrine-disrupting chemicals. I*n Hayes*' *Handbook of Pesticide Toxicology* (pp. 551-569). Academic Press. https://doi.org/10.1016/B978-0-12-374367-1.00018-5

3. Knudsen, T.B., Martin, M.T., Kavlock, R.J., Judson, R.S., Dix, D.J. and Singh, A.V., 2009. Profiling the activity of environmental chemicals in prenatal developmental toxicity studies using the US EPA's ToxRefDB. *Reproductive toxicology*, 28(2), pp.209-219. https://doi.org/10.1016/j.reprotox.2009.03.016

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