

Chemical Factsheet

Indaziflam

General Information

- Fact Sheet: [Indaziflam Fact Sheet.pdf](#)
- Product Names:
 - Lawn 3FL Herbicide Concentrate/Ready-to-spray
 - SPECTICLE PLUS TURF FERTILIZER HERBICIDE
 - ESPLANADE
 - NS Herbicide Concentrate
- Chemical Class: Fluoroalkyltriazine herbicide
- Uses: Uses on residential and commercial areas (lawns, ornamentals, etc.), turf, field grown ornamentals and Christmas trees, commercial nursery and landscape plantings, and forestry sites.
- Alternatives: Organic land care
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

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

Additional Information

- Regulatory Status:
 - [EPA factsheet](#) (2010)
- Supporting information:
 - [USDA Human Health and Ecological Risk Assessment \(HHERA\) for Indaziflam](#) (2020)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [The silence of the clams: Forestry registered pesticides as multiple stressors on soft-shell clams](#). Tissot, A.G., Granek, E.F., Thompson, A.W., Hladik, M.L., Moran, P.W. and Scully-Engelmeyer, K. Science of The Total Environment, p.152053.
 - [The possible cytotoxicity and genotoxicity assessment of indaziflam on HepG2 cells](#). Adigüzel, S. (2023) The possible cytotoxicity and genotoxicity assessment of indaziflam on HepG2 cells, Human & Experimental Toxicology. Available at:

<https://journals.sagepub.com/doi/full/10.1177/09603271231183145>.

- [Mobility, Degradation, and Uptake of Indaziflam under Greenhouse Conditions](#). González-Delgado, A.M. and Shukla, M.K. (2020) Mobility, degradation, and uptake of Indaziflam under greenhouse conditions, HortScience. Available at: <https://journals.ashs.org/hortsci/view/journals/hortsci/55/8/article-p1216.xml>.

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>.

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