

# Chemical Factsheet

## Spinetoram

### General Information

- Product Names:
  - Delegate** (Dow)
  - Radiant** (Dow)
  - Assurity for cats** (Elanco)
- Chemical Class: Unclassified
- Uses: Controls larvae of worms and caterpillars, various Diptera, thrips, sawfly larvae, certain beetles and psyllids, fleas, and armyworms for a variety of fruit and vegetable crops.
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

### Health and Environmental Effects

*See citations at end of document.*

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

### Additional Information

- Regulatory Status:
  - [EPA Fact Sheet](#)
- Supporting information:
  - [PAN Pesticides Database: Spinetoram](#)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
  - [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

1. U.S. EPA, Office of Prevention, Pesticides and Toxic Substances, New Active Ingredients Factsheets:

<http://web.archive.org/web/20120107215849/http://www.epa.gov/opprd001/factsheets/index.htm>

Factsheet generated on February 1, 2026