

# Chemical Factsheet

## Amitraz (BAAM)

### General Information

- Product Names:
  - Preventic tick collar (Virbac)
  - Certifect (Merial) formulated with Fipronil
  - Taktic (Intervet)
- Chemical Class: formamidine insecticide/acaricide
- Uses: Control of livestock ticks, lice and mange mites on dogs and livestock, control of Pear psylla, lepidopteran pests, whiteflies and mites on cotton and pears
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating:

### Health and Environmental Effects

See *citations at end of document*.

- Cancer: Possible (1)
- Endocrine Disruption: Not documented
- Reproductive Effects: Yes (1)
- 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: Yes (1)
- Toxic to Fish/Aquatic Organisms: Yes (1)
- Toxic to Bees: Yes (2)

### Residential Uses as Found in the ManageSafe™ Database

- [Fleas](#)

### Additional Information

- Regulatory Status:
  - [EPA Registration Eligibility Document \(RED\) signed 9/2005](#)
- Supporting information:
  - PAN Pesticides Database: [Amitraz](#) (Pesticide Action Network)
  - [Extoxnet Amitraz Factsheet](#)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
  - [Pesticide residues in bee bread, propolis, beeswax and royal jelly - A review of the literature and dietary risk assessment](#). Végh, R., Csóka, M., Mednyánszky, Z. and Sipos, L., 2023. Food and Chemical Toxicology, p.113806.
  - [Unveiling bee pollen's contamination with pesticides and mycotoxins: Current analytical](#)

[procedures, results and regulation](#). Carrera, M. et al. (2024) Unveiling bee pollen's contamination with pesticides and mycotoxins: Current analytical procedures, results and regulation, Trends in Analytical Chemistry. Available at:  
<https://www.sciencedirect.com/science/article/abs/pii/S0165993624004187>.

- [Pesticides residues and metabolites in honeybees: A Greek overview exploring Varroa and Nosema potential synergies](#). Kasiotis, Konstantinos M et al. "Pesticides residues and metabolites in honeybees: A Greek overview exploring Varroa and Nosema potential synergies." The Science of the total environment vol. 769 (2021): 145213. doi:10.1016/j.scitotenv.2021.145213
- [Suspect and non-targeted screening-based human biomonitoring identified 74 biomarkers of exposure in urine of Slovenian children](#). Tkalec, Ž., Codling, G., Tratnik, J. S., Mazej, D., Klánová, J., Horvat, M., & Kosjek, T. (2022). Suspect and non-targeted screening-based human biomonitoring identified 74 biomarkers of exposure in urine of Slovenian children. Environmental pollution (Barking, Essex : 1987), 313, 120091.  
<https://doi.org/10.1016/j.envpol.2022.120091>

## 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. Yueh, MF et al. 2014. [The commonly used antimicrobial additive triclosan is a liver tumor promoter](#). PNAS doi: 10.1073/pnas.141911911. *Triclosan promotes liver cancer cell development and proliferation in mice through pathways common to humans.*

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