Chemical Factsheet

Tebuthiuron

General Information

- Product Names:
  Sharda Tebuthiuron 20 P (Sharda USA)
  Alligare Tebuthiuron 20 P (Alligare)
  Spike 20p (Corteva Agriscience)
  Spike 40p (Corteva Agriscience)
  Sprakil S-5 Brush Control Granules (SSI Maxim Of Tennessee)
  Sharda Tebuthiuron 80% Df (Sharda USA)
  Alligare Tebuthiuron 80 Wg (Alligare)
  Spike 80df (Corteva Agriscience)
  Tebuthiuron Technical (Adama Celsius Property)
  Spike Technical (Nutrichem USA Inc.)
  Sharda Tebuthiuron Technical (Sharda USA)
- Chemical Class: Urea derivative herbicide
- Uses: It is a nonselective broad spectrum herbicide used to control weeds, woody and herbaceous plants, and sugar cane.
- Alternatives: Organic Agriculture, Organic Land Management
- 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: Yes (**1**)
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (**2**)
- Toxic to Bees: Not documented

Additional Information

- Regulatory Status:
  - EPA R.E.D. Facts (1994)
  - EPA IRIS Assessments
  - EPA Office of Pesticide Programs
  - California Department of Pesticide Regulation - Human Health Reference Level for Tebuthiuron and its Degradates in Groundwater (April 2024)

- Supporting information:
  - National Library of Medicine, Tebuthiuron
  - *Daily News* Archive for Tebuthiuron
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Integrating morphological, biochemical, behavioural, and molecular approaches to investigate developmental toxicity triggered by tebuthiuron in zebrafish (Danio rerio). de Oliveira, A. et al. (2023) Integrating morphological, biochemical, behavioural, and molecular approaches to investigate developmental toxicity triggered by tebuthiuron in zebrafish (Danio rerio), Chemosphere. Available at: https://www.sciencedirect.com/science/article/abs/pii/S004565352302163X.
  - Exposure to the herbicide tebuthiuron affects behavior, enzymatic activity, morphology and physiology of the midgut of the stingless bee Partamona helleri. Farder-Gomes, C. et al. (2024) Exposure to the herbicide tebuthiuron affects behavior, enzymatic activity, morphology and physiology of the midgut of the stingless bee Partamona helleri, Environmental Toxicology and Pharmacology. Available at: https://www.sciencedirect.com/science/article/abs/pii/S138266892400156X.
  - Influence of temperature on growth, development and thyroid metabolism of American bullfrog tadpoles (Lithobates catesbeianus) exposed to the herbicide tebuthiuron. Grott, S. et al. (2022) Influence of temperature on growth, development and thyroid metabolism of American bullfrog tadpoles (Lithobates catesbeianus) exposed to the herbicide tebuthiuron, Environmental Toxicology and Pharmacology. Available at: https://www.sciencedirect.com/science/article/abs/pii/S138266892200103X.
  - Influence of temperature on biomarker responses and histology of the liver of American bullfrog tadpoles (Lithobates catesbeianus, Shaw, 1802) exposed to the herbicide Tebuthiuron. Grott, S. et al. (2021) Influence of temperature on biomarker responses and histology of the liver of American bullfrog tadpoles (Lithobates catesbeianus, Shaw, 1802) exposed to the herbicide Tebuthiuron, Science of The Total Environment. Available at: https://www.sciencedirect.com/science/article/abs/pii/S0048969721000371.
  - Pesticides and Pesticide Degradates in Groundwater Used for Public Supply across the United States: Occurrence and Human-Health Context. Bexfield, Laura M et al. “Pesticides and Pesticide Degradates in Groundwater Used for Public Supply across the United States: Occurrence and Human-Health Context.” Environmental science & technology vol. 55,1 (2021): 362-372. doi:10.1021/acs.est.0c05793

Gateway Health and Environmental Effects Citations

1. Human Health Reference Level for Tebuthiuron and its Degradates in Groundwater (2024) California Department of Pesticide Regulation. Available at: https://www.cdpr.ca.gov/docs/risk/rcd/tebuthiuron_hhrl_2024.pdf.

2. National Center for Biotechnology Information, PubChem Compound Database. Available at: https://pubchem.ncbi.nlm.nih.gov/.

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