

# Chemical Factsheet

## Thiabendazole

### General Information

- Product Names:
  - Mertect** (Syngenta)
  - Tecto** (Syngenta)
  - Maxim Quattro** (Syngenta) formulated with [Fludioxonil](#), [Metalaxyl-M](#), and [Azoxystrobin](#)
  - Gustafson LSP** (Bayer)
  - Deecozole A** (Decco)
  - Freshgard 598** (John Bean Technologies)
  - Metasol** (Lanxess)
  - Preventol** (Lanxess) formulated with [Azoxystrobin](#)
  - Sporgard** (Lanxess) formulated with [Fludioxonil](#) and [Azoxystrobin](#)
  - Irgauard** (BASF)
  - Stay-Clean** (Walla Walla Environmental)
  - Shield-Brite** (Pace)
  - Krud Kutter MC-2** (Krud Kutter)
- Chemical Class: Benzimidazole fungicide
- Uses: Potato, sweet potato, soybean, wheat, mushrooms, citrus fruits, apples, pears, bananas, mango, papaya, plantain, carrots, avocados, peas, and ornamental bulbs
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

### Health and Environmental Effects

See citations at end of document.

- Cancer: Yes (1)
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- 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 (1)
- Toxic to Bees: Not documented

### Additional Information

- Regulatory Status:
  - [EPA Reregistration Eligibility Decision](#) (RED) signed 10/2002
- Supporting information:
  - [PAN Pesticides Database: Thiabendazole](#) (Pesticide Action Network)

- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
  - [Respiratory and allergic outcomes among 5-year-old children exposed to pesticides](#). Islam, J.Y. et al. (2023) Respiratory and allergic outcomes among 5-year-old children exposed to pesticides, Thorax. Available at: <https://thorax.bmjjournals.org/content/78/1/41.abstract>.
  - [A cumulative dietary pesticide exposure score based on produce consumption is associated with urinary pesticide biomarkers in a U.S. biomonitoring cohort](#). Temkin, A. et al. (2025) A cumulative dietary pesticide exposure score based on produce consumption is associated with urinary pesticide biomarkers in a U.S. biomonitoring cohort, International Journal of Hygiene and Environmental Health. Available at: <https://www.sciencedirect.com/science/article/pii/S1438463925001361>.
  - [Prospective association between dietary pesticide exposure profiles and postmenopausal breast-cancer risk in the NutriNet-Santé cohort](#). Rebouillat, P., Vidal, R., Cravedi, J. P., Taupier-Letage, B., Debrauwer, L., Gamet-Payrastre, L., Touvier, M., Deschasaux-Tanguy, M., Latino-Martel, P., Hercberg, S., Lairon, D., Baudry, J., & Kesse-Guyot, E. (2021). Prospective association between dietary pesticide exposure profiles and postmenopausal breast-cancer risk in the NutriNet-Santé cohort. International journal of epidemiology, 50(4), 1184-1198. <https://doi.org/10.1093/ije/dyab015>

## 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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