

Chemical Factsheet

Terbuthylazine

General Information

- Product Names:
 - Ama-204**
 - Bellacide 325**
 - Bellacide 329**
 - Bellacide 320**
- Chemical Class: Triazine
- Uses: as a broad-spectrum herbicide, algicide, microbicide, and microbiostat.
- Alternatives: [Organic Agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Possible (1)
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Not documented
- 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 \(RED\) Archive Document](#) (1995)
 - [EPA Registration Review Draft Risk Assessment for Terbuthylazine](#) (2019)
- Supporting information:
 - [PAN Pesticides Database: Terbuthylazine](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Bioaccumulation and toxicity of terbuthylazine in earthworms \(Eisenia fetida\)](#). Li, S., Yuan, Y., Wang, X., Cai, L., Wang, J., Zhao, Y., Jiang, L., & Yang, X. (2023). Bioaccumulation and toxicity of terbuthylazine in earthworms (Eisenia fetida). Environmental toxicology and pharmacology, 97, 104016. <https://doi.org/10.1016/j.etap.2022.104016>
 - [Effects of sub-chronic exposure to terbuthylazine on DNA damage, oxidative stress and parent compound/metabolite levels in adult male rats](#). Tariba Lovaković, B., Pizent, A., Kašuba, V., Kopjar, N., Micek, V., Mendaš, G., Dvorščak, M., Mikolić, A., Milić, M., Žunec, S., Lucić Vrdoljak, A., & Želježić, D. (2017). Effects of sub-chronic exposure to terbuthylazine

on DNA damage, oxidative stress and parent compound/metabolite levels in adult male rats. Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association, 108(Pt A), 93-103.

<https://doi.org/10.1016/j.fct.2017.07.046>

- [Assessing pesticide residue occurrence and risks in the environment across Europe and Argentina](#). Alaoui, A., Christ, F., Abrantes, N., Silva, V., González, N., Gai, L., Harkes, P., Navarro, I., Torre, A., Martínez, M. Á., Norgaard, T., Vested, A., Schlünssen, V., Aparicio, V. C., Campos, I., Pasković, I., Pasković, M. P., Glavan, M., Ritsema, C., & Geissen, V. (2024). Assessing pesticide residue occurrence and risks in the environment across Europe and Argentina. Environmental pollution (Barking, Essex : 1987), 363(Pt 1), 125056. <https://doi.org/10.1016/j.envpol.2024.125056>
- [Occurrence of contaminants of emerging concern and pesticides and relative risk assessment in Tunisian groundwater](#). Khezami, F. et al. (2024) 'Occurrence of contaminants of emerging concern and pesticides and relative risk assessment in Tunisian groundwater', Science of The Total Environment, 906, p. 167319. doi:10.1016/j.scitotenv.2023.167319.
- [Environmental pesticide exposure and Alzheimer's disease in southern Spain: A cross-sectional study](#). Ruiz-González, C. et al. (2024) Environmental pesticide exposure and alzheimer's disease in southern Spain: A cross-sectional study, Psychiatry Research. Available at: <https://www.sciencedirect.com/science/article/pii/S0165178124002178?via%3Dihub>.
- [Currently used pesticides and their mixtures affect the function of sex hormone receptors and aromatase enzyme activity](#). Kjeldsen, L.S., Ghisari, M. and Bonefeld-Jørgensen, E.C. (2013) 'Currently used pesticides and their mixtures affect the function of sex hormone receptors and aromatase enzyme activity', Toxicology and Applied Pharmacology, 272(2), pp. 453-464. doi:10.1016/j.taap.2013.06.028.
- [In vitro-in vivo correlations for endocrine activity of a mixture of currently used pesticides](#). Taxvig C, Hadrup N, Boberg J, et al. 2013. Toxicol Appl Pharmacol.272(3):757-66
- [Residues of agrochemicals in beebread as an indicator of landscape management](#). Bogo, G. et al. (2024) Residues of agrochemicals in beebread as an indicator of landscape management, Science of The Total Environment. Available at: <https://www.sciencedirect.com/science/article/abs/pii/S0048969724042232?via%3Dihub>.
- [Pesticides are the dominant stressors for vulnerable insects in lowland streams](#). Liess, M., Liebmann, L., Vormeier, P., Weisner, O., Altenburger, R., Borchardt, D., Brack, W., Chatzinotas, A., Escher, B., Foit, K. and Gunold, R. Water Research, 201, p.117262.
- [Direct pesticide exposure of insects in nature conservation areas in Germany](#). Brühl, C.A., Bakanov, N., Köthe, S., Eichler, L., Sorg, M., Hörrn, T., Mühlethaler, R., Meinel, G. and Lehmann, G.U. Scientific reports, 11(1), pp.1-10.
- [Effects of Microplastics on Bioavailability, Persistence and Toxicity of Plant Pesticides: An Agricultural Perspective](#). Tang, K. (2025) Effects of Microplastics on Bioavailability, Persistence and Toxicity of Plant Pesticides: An Agricultural Perspective, Agriculture. Available at: <https://www.mdpi.com/2077-0472/15/4/356>.
- [The influence of polyethylene microplastics on pesticide residue and degradation in the aquatic environment](#). Wang, F., Gao, J., Zhai, W., Liu, D., Zhou, Z., & Wang, P. (2020). The influence of polyethylene microplastics on pesticide residue and degradation in the aquatic environment. Journal of hazardous materials, 394, 122517. <https://doi.org/10.1016/j.jhazmat.2020.122517>
- [Screening of pesticides and veterinary drugs in small streams in the European Union by liquid chromatography high resolution mass spectrometry](#). Casado, J. et al. (2019) Screening of pesticides and veterinary drugs in small streams in the European Union by

liquid chromatography high resolution mass spectrometry, Science of The Total Environment. Available at:

<https://www.sciencedirect.com/science/article/abs/pii/S0048969719311969>.

- [Widespread Pesticide Distribution in the European Atmosphere Questions their Degradability in Air](#). Mayer, L., Degrendele, C., Šenk, P., Kohoutek, J., Přibylová, P., Kukučka, P., Melymuk, L., Durand, A., Ravier, S., Alastuey, A., Baker, A. R., Baltensperger, U., Baumann-Stanzer, K., Biermann, T., Bohlin-Nizzetto, P., Ceburnis, D., Conil, S., Couret, C., Degórska, A., Diapouli, E., ... Lammel, G. (2024). Widespread Pesticide Distribution in the European Atmosphere Questions their Degradability in Air. Environmental science & technology, 58(7), 3342–3352. Advance online publication. <https://doi.org/10.1021/acs.est.3c08488>
- [Legacy and emerging contaminants in meltwater of three Alpine glaciers](#). Ferrario, C., Finizio, A. and Villa, S. (2016) Legacy and emerging contaminants in meltwater of three alpine glaciers, Science of The Total Environment. Available at: <https://www.sciencedirect.com/science/article/abs/pii/S0048969716319866>.

Gateway Health and Environmental Effects Citations

1. National Library of Medicine. PubChem Hazardous Substances Database. [PubChem \(nih.gov\)](#)

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