

Chemical Factsheet

Mepiquat chloride

General Information

- Product Names:
 - MEPEX** (Nufarm)
 - Stance Plant Regulator** (Bayer) Formulated with Cyclanilide
 - Compact** (Winnfield Solutions)
 - Mep Star** (Albaugh)
 - PIX** (Arysta)
 - Flat-Top** (Direct AG Source)
 - Pentia Plant Regulator** (BASF)
- Chemical Class: Quaternary Ammonium Compound
- Uses: Plant Growth Regulator
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating:

Health and Environmental Effects

See *citations at end of document*.

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

Additional Information

- Supporting information:
 - [EPA Registration Eligibility Decision \(RED\) signed \(05/1997\)](#)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - **PAN Pesticide Database:** (Pesticide Action Network)
 - [Comparative analysis of mycotoxin, pesticide, and elemental content of Canarian craft and Spanish mainstream beers](#). González, P.A. et al. (2023) Comparative analysis of mycotoxin, pesticide, and elemental content of Canarian craft and Spanish mainstream beers, Toxicology Reports. Available at: <https://www.sciencedirect.com/science/article/pii/S2214750023000331>.
 - [Fate of pesticide residues in beer and its by-products](#). Hakme, E., Kallehauge Nielsen, I., Fermina Madsen, J., Storkehhave, L. M., Skjold Elmelund Pedersen, M., Schulz, B. L., ...

Duedahl-Olesen, L. (2023). Fate of pesticide residues in beer and its by-products. *Food Additives & Contaminants: Part A*, 41(1), 45–59.
<https://doi.org/10.1080/19440049.2023.2282557>

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>.

Factsheet generated on February 1, 2026