

Chemical Factsheet

Methidathion

General Information

- Product Names:
Supracide (Gowan)
- Chemical Class: Organophosphate insecticide
- Uses: Almonds, apples, apricots, artichokes, carambola, cherries, cotton, grapefruit, kiwifruit, lemons, longan, mandarin, mango, nectarines, olives, oranges, peaches, pears, pecans, plums and prunes, safflower, sugar apple, sunflower and walnuts, alfalfa and clover seed, grass hay, tobacco, and ornamental plants and shrubs for broad control of insects.
- 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: Yes (1)
- Kidney/Liver Damage: Not documented
- Sensitizer/ Irritant: Yes (2)
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Yes (1)
- Toxic to Fish/Aquatic Organisms: Yes (1)
- Toxic to Bees: Yes (1)

Additional Information

- Regulatory Status:
 - [Cancellation Order for Pesticide Registrations: Methidathion](#) (6/2010)
 - [EPA Reregistration Eligibility Decision](#) (RED) signed (7/2006)
- Supporting information:
 - [Exttoxnet Methidathion Factsheet](#) (Extension Toxicology Network)
 - [PAN Pesticides Database - Methidation](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Temporal trends of agricultural organophosphate pesticide use in California and proximity to pregnant people in 2021](#). Rotkin-Ellman, M., Carpenter, C., Richardson, M.J. et al. Temporal trends of agricultural organophosphate pesticide use in California and proximity to pregnant people in 2021. BMC Public Health 25, 3121 (2025). <https://doi.org/10.1186/s12889-025-23939-y>

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. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles.

<http://extoxnet.orst.edu/pips/ghindex.html>

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