

# Chemical Factsheet

## Monosodium methanearsonate (MSMA)

### General Information

- Product Names:
  - Drexar 530 (Drexel)
  - Diumate (Drexel) formulated with [Diuron](#)
  - Target (Luxembourg-Pamol)
  - Quadmec Turf (PBI/Gordon) formulated with [Dicamba](#), [2,4-D](#), and [Mecoprop](#)
- Chemical Class: Arsenical herbicide
- Uses: historically used in cotton production.
- 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: 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: Yes (2)
- Toxic to Birds: Yes (1)
- Toxic to Fish/Aquatic Organisms: Yes (1)
- Toxic to Bees: Not documented

### Additional Information

- Regulatory Status:
  - [EPA Reregistration Eligibility Decision \(RED\) signed](#) (8/2006) (all uses cancelled)
- Supporting information:
  - [PAN Pesticides Database:MSMA](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
  - [Proximity to residential and workplace pesticides application and the risk of progression of Parkinson's diseases in Central California](#). Li, S. et al. (2022) Proximity to residential and workplace pesticides application and the risk of progression of parkinson's diseases in Central California, Science of The Total Environment. Available at: <https://www.sciencedirect.com/science/article/pii/S0048969722079542>.

### Gateway Health and Environmental Effects Citations

1. US EPA, 1995. Monosodium Methanearsonate and Disodium Methanearsonate; Toxic Chemical

Release Reporting; Community Right-to-Know. Federal Register Environmental Documents.  
<https://www.govinfo.gov/app/details/FR-1995-04-20/95-9782>.

2. National Library of Medicine. PubChem Hazardous Substances Database. [PubChem \(nih.gov\)](https://pubchem.ncbi.nlm.nih.gov)

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