Chemical Factsheet

Dacthal (DCPA)

General Information

- Product Names:
  Ferti-Lome Weed and Grass Preventer (Voluntary Purchasing Group)
  ACME Garden Weed Preventer (PBI/Gordon)
  Preemergence Weed Control (Lebanon Seaboard)
  Garden Weeder (PBI/Gordon)
  Green Gold Preemergence Crabgrass Control (Lebanon Seaboard)
- Chemical Class: Phthalate pre-emergent herbicide
- Uses: Control of Broadleaf weeds and annual grasses in terrestrial food crops, alfalfa, turf, ornamentals, and trees in agriculture and residential
- Alternatives: Organic agriculture, Organic lawn care
- 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: Yes (**2**)
- Sensitizer/ Irritant: Yes (**3**)
- Birth/Developmental: Not documented
- Detected in Groundwater: Yes (**4**)
- Potential Leacher: Yes (**5**)
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (**5**)
- Toxic to Bees: Yes (**6**)

Additional Information

- Regulatory Status:
  - EPA Reregistration Eligibility Decision (RED) signed (9/1995)
  - EPA Issues Emergency Order to Stop Use of Pesticide Dacthal to Address Serious Health Risk (08/2024)
- Supporting information:
  - Asthma, Children and Pesticides (Beyond Pesticides)
  - Daily News Blog entries (Beyond Pesticides)
  - NCAP Dacthal Factsheet (Northwest Coalition for Alternatives to Pesticides)
  - Extoxnet Dacthal Factsheet (Extension Toxicology Network)
  - PAN Pesticides Database: Dacthal (Pesticide Action Network)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - A pilot study of pesticides and PCBs in the breast milk of women residing in urban and

agricultural communities of California.. Weldon RH, Barr DB, Trujillo C, et al. 2011. J Environ Monit. 13(11):3136-44.
- Association of Environmental Toxins With Amyotrophic Lateral Sclerosis. Su, F.C., Goutman, S.A., Chernyak, S., Mukherjee, B., Callaghan, B.C., Batterman, S. and Feldman, E.L., 2016. JAMA neurology, 73(7), pp.803-811.
- Pre-Conception And First Trimester Exposure To Pesticides And Associations With Stillbirth. Furlong, M. et al. (2024) Pre-conception and first trimester exposure to pesticides and associations with stillbirth, American Journal of Epidemiology. Available at: https://academic.oup.com/aje/advance-article-abstract/doi/10.1093/aje/kwae198/7714541 .
- Assessment of Grouped Weighted Quantile Sum Regression for Modeling Chemical Mixtures and Cancer Risk. Wheeler, D. C., Rustom, S., Carli, M., Whitehead, T. P., Ward, M. H., & Metayer, C. (2021). Assessment of Grouped Weighted Quantile Sum Regression for Modeling Chemical Mixtures and Cancer Risk. International Journal of Environmental Research and Public Health, 18(2), 504. https://doi.org/10.3390/ijerph18020504
- Current-use pesticides in seawater and their bioaccumulation in polar bear–ringed seal food chains of the Canadian Arctic. Adam D. Morris, Derek C.G. Muir, Keith R. Solomon, Robert J. Letcher, Melissa A. McKinney, Aaron T. Fisk, Bailey C. McMeans, Gregg T. Tomy, Camilla Teixeira, Xiaowa Wang, Mark Duric, Current-use pesticides in seawater and their bioaccumulation in polar bear–ringed seal food chains of the Canadian Arctic, Environmental Toxicology and Chemistry, Volume 35, Issue 7, 1 July 2016, Pages 1695–1707, https://doi.org/10.1002/etc.3427
- Current-use pesticide transport to Costa Rica's high-altitude tropical cloud forest. Chubashini Shunthirasingham, Todd Gouin, Ying D Lei, Clemens Ruepert, Luisa E Castillo, Frank Wania, Current-use pesticide transport to Costa Rica's high-altitude tropical cloud forest, Environmental Toxicology and Chemistry, Volume 30, Issue 12, 1 December 2011, Pages 2709–2717, https://doi.org/10.1002/etc.671
- Atmospheric Deposition of Current-Use and Historic-Use Pesticides in Snow at National Parks in the Western United States. Hageman, K. J., Simonich, S. L., Campbell, D. H., Wilson, G. R., & Landers, D. H. (2006). Atmospheric deposition of current-use and historic-use pesticides in snow at national parks in the western United States. Environmental science & technology, 40(10), 3174–3180. https://doi.org/10.1021/es060157c

Gateway Health and Environmental Effects Citations

1. EPA weight-of-evidence category, "possible human carcinogen." US EPA, 2004. Office of Pesticide Programs. List of Chemicals Evaluated for Carcinogenic Potential. July 29, 2004. http://www.epa.gov/pesticides/carlist/

2. Northwest Coalition for Alternatives to Pesticides (NCAP), Pesticide Factsheets. http://www.pesticide.org/pesticide-factsheets.

3. Gosselin, R.E., R.P. Smith, and H.C. Hodge. 1984. Clinical Toxicology of Commerical Products, 5th edition. Baltimore, MD: Williams and Wilkins.

4. U.S. Geological Survey, Pesticides in the Nation's Streams and Ground Water, 1992-2001. http://water.usgs.gov/nawqa/pnsp/pubs/circ1291/appendix7.

5. 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.

6. Tew, J.E. 1996. Protecting Honeybees from Pesticides. Ohio State University Cooperative Extension. http://web.archive.org/web/20031123075324/http://beelab.osu.edu/factsheets/sheets/2161.html

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