

# Chemical Factsheet

## Penthiopyrad

### General Information

- Product Names:
  - Dupont Dpx-Lem17 250fs Seed Treatment** (Corteva Agriscience; Formerly Dupont)
  - Dupont Fontelis Fungicide** (Corteva Agriscience; Formerly Dupont)
  - Dupont Treoris Fungicide** (Corteva Agriscience; Formerly Dupont)
  - Dupont Vertisan Fungicide** (Corteva Agriscience; Formerly Dupont)
  - Dupont Vertisan St Seed Treatment** (Corteva Agriscience; Formerly Dupont)
  - Penthiopyrad 40sc** (Mitsui Chemicals Agro, Inc)
  - Penthiopyrad Technical** (Mitsui Chemicals Agro, Inc)
  - Velista** (Syngenta Crop Protection, LLC)
- Chemical Class: Carboxamide Fungicide
- Uses: To control a broad spectrum of diseases on large variety of crops; inhibits fungal respiration by binding to mitochondrial respiratory complex II.
- Alternatives: [Organic agriculture](#), [Organic lawn care](#)
- Beyond Pesticides rating: [Toxic](#)

### Health and Environmental Effects

*See citations at end of document.*

- Cancer: Likely (1, 2)
- Endocrine Disruption: Possible (3, 2)
- Reproductive Effects: Possible (3)
- Neurotoxicity: Possible (4)
- Kidney/Liver Damage: Likely (4, 3, 2)
- Sensitizer/Irritant: Likely (3)
- Birth/Developmental: Not documented
- Detected in Groundwater: Possible (5)
- Potential Leacher: Yes (5)
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (4, 5)
- Toxic to Bees: Not documented

### Residential Uses as Found in the ManageSafe™ Database

- [Mold](#)

### Additional Information

- Regulatory Status:
  - [Pesticide Tolerances: Penthiopyrad Registration Decision](#) (03/09/2012)
  - [Public Participation for New Active Ingredient Penthiopyrad](#) (01/12/2012)
- Supporting information:
  - [PAN Pesticides Database](#): PAN (Pesticide Action Network)

## Gateway Health and Environmental Effects Citations

1. Pesticide Action Network Pesticide Database. [http://www.pesticideinfo.org/Search\\_Chemicals.jsp](http://www.pesticideinfo.org/Search_Chemicals.jsp).
2. Jeong, M.H., Hong, S.S., Park, K.H., Kim, C.S., Park, J.E., Hong, M.K., Im, M.H., Kim, Y.B., Han, B.S. and Han, J.S., 2010. Toxicity Assessment and Establishment Acceptable Daily Intake of Penthiopyrad. *The Korean Journal of Pesticide Science*, 14(4), pp.478-489.  
<https://www.koreascience.or.kr/article/JAKO201015537949224.page>
3. Corteva, 2012. DuPont Frontelis Fungicide. [DUPONT FONTELIS FUNGICIDE.pdf \(kern.ca.us\)](#)
4. National Library of Medicine. PubChem Hazardous Substances Database. [PubChem \(nih.gov\)](#)
5. USEPA, 2014. VELISTA Product Label.  
[https://www3.epa.gov/pesticides/chem\\_search/ppls/000100-01534-20141120.pdf](https://www3.epa.gov/pesticides/chem_search/ppls/000100-01534-20141120.pdf)

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