

Chemical Factsheet

2-Phenylphenol (o-phenylphenol)

(Orthophenylphenol or oPP)

Includes its salts **Sodium-oPP** and **Potassium-oPP** used as inert ingredients

General Information

- Product Names:
 - Dowcide** (Dow)
 - Preventol** (Lanxess)
 - Amphly** (Reckitt Benckiser)
 - Leather Therapy** (Unicorn Editions)
 - Precise Hospital Foam Cleaner Disinfectant** (Clorox Professional Products)
 - Raid Ant & Roach Killer** (S.C. Johnson & Son) formulated with [Piperonyl Butoxide](#), [Pyrethrins](#), [Permethrin](#)
- Chemical Class: Antimicrobial Phenol
- Uses: For hard surfaces, agricultural premises and equipment, air deodorization, commercial and institutional premises, medical premises, residential and public access premises (carpet, hard surfaces, crack and crevice treatment), and material preservatives (stains, and paints, metal working fluids, textiles, paper slurries and cement mixtures, glues, and adhesives, and consumer, household and institutional cleaning products); food processing/handling; also postharvest application on citrus, peach and pears, greenhouse premises, lawn, turf, outdoor structures-patios, driveways, etc.
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: OPP/Sodium OPP: Yes (1)
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- Neurotoxicity: Not documented
- 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: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (2, 3)
- Toxic to Bees: Not documented

Additional Information

- Regulatory Status:

- [EPA Registration Documents](#)
- [Risk Characterization Document Dietary Exposure](#) (California Dept of Pesticide Regulation, 2007).
- Supporting information:
 - [CDC Biomonitoring Factsheet: ortho-phenylphenol](#).
 - [PAN Pesticides Database](#): (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - Appel KE. 2000. [The carcinogenicity of the biocide ortho-phenylphenol](#). Arch Toxicol. 74(2):61-71.
 - [Pesticides in Cannabis: The Need for Evidence to Inform Policy and Protect Patients](#). Watson, T. D., Glodosky, N. C., Johnson, T. J., Poolman, N., Mistretta, A., & Okey, S. A. (2026). Pesticides in Cannabis: The Need for Evidence to Inform Policy and Protect Patients. Clinical therapeutics, S0149-2918(26)00037-8. Advance online publication. <https://doi.org/10.1016/j.clinthera.2026.02.003>

Gateway Health and Environmental Effects Citations

1. California Environmental Protection Agency. Proposition 65: Chemicals Known to the State to Cause Cancer or Reproductive Toxicity. Office of Environmental Health Hazard Assessment. February 25, 2022. <https://oehha.ca.gov/media/downloads/proposition-65//p65chemicalslistsingletable2021p.pdf>
2. 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>.
3. National Library of Medicine. PubChem Hazardous Substances Database. [PubChem \(nih.gov\)](#)

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