

Chemical Factsheet

Coumaphos

General Information

- Product Names:
 - CO-RAL emulsifiable livestock insecticide (Bayer)
 - Checkmite+ bee hive pest control strip (Bayer)
 - Corathon (Bayer) formulated with [Diazinon](#)
 - Y-Tex CO-RAL livestock dust (Y-Tex)
 - Balcom zipcide cattle dust bag (Chem-Tech LTD.)
 - Shaker duster (Ritepack Inc.)
- Chemical Class: Organophosphate
- Uses: fleas grubs and ticks on cattle sheep goats horses and swine
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

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

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision \(RED\)](#). 1996.
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Coumaphos exposure and incident cancer among male participants in the Agricultural Health Study \(AHS\)](#). Christensen CH, Platz EA, Andreotti G, et al. 2010. Environ Health Perspect. 118(1):92-6
 - [Pesticide residues in bee bread, propolis, beeswax and royal jelly – A review of the literature and dietary risk assessment](#). Végh, R., Csóka, M., Mednyánszky, Z. and Sipos, L., 2023. Food and Chemical Toxicology, p.113806.
 - [Pesticide exposure and risk of cardiovascular disease: A systematic review](#). Zago, A. M., Faria, N. M. X., Fávero, J. L., Meucci, R. D., Woskie, S., & Fassa, A. G. (2022). Pesticide exposure and risk of cardiovascular disease: A systematic review. Global public health, 17(12), 3944-3966. <https://doi.org/10.1080/17441692.2020.1808693>

- [Associations of specific pesticides and incident rheumatoid arthritis among female spouses in the Agricultural Health Study](https://acrjournals.onlinelibrary.wiley.com/doi/10.1002/art.43318). Parks, C. et al. (2025) Associations of specific pesticides and incident rheumatoid arthritis among female spouses in the Agricultural Health Study, *Arthritis & Rheumatology*. Available at: <https://acrjournals.onlinelibrary.wiley.com/doi/10.1002/art.43318>.
- [Pesticides residues and metabolites in honeybees: A Greek overview exploring Varroa and Nosema potential synergies](https://doi.org/10.1016/j.scitotenv.2021.145213). Kasiotis, Konstantinos M et al. "Pesticides residues and metabolites in honeybees: A Greek overview exploring Varroa and Nosema potential synergies." *The Science of the total environment* vol. 769 (2021): 145213. doi:10.1016/j.scitotenv.2021.145213

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. Walsh, E.M., Sweet, S., Knap, A., Ing, N. and Rangel, J., 2020. Queen honey bee (*Apis mellifera*) pheromone and reproductive behavior are affected by pesticide exposure during development. *Behavioral Ecology and Sociobiology*, 74(3), pp.1-14. <https://doi.org/10.1007/s00265-020-2810-9>

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