



# Candidate POPs

## Chlorpyrifos

**CAS No.** 2921-88-2

**Full Name:** *O,O*-diethyl *O*-(3,5,6-trichloro-2-pyridyl) phosphorothioate

**Trade Names:** Dursban, OMS 0971, Lorsban, Brodan, Killmaster, Pyrinex, Suscon, Coroban, Terial, Danusban, Durmet, Eradex

**Synonyms:** chlorpyrifos; chlorpyrifos-ethyl; chlorpyrifos-ethyl; *O,O*-diethyl *O*-3,5,6-trichloro-2-pyridinyl phosphorothioate; phosphorothioic acid, *O,O*-diethyl *O*-(3,5,6-trichloro-2-pyridinyl) ester

### Uses:

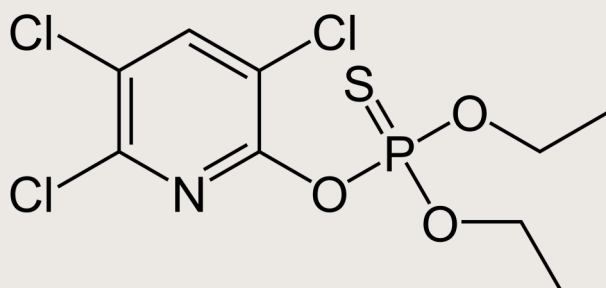
Chlorpyrifos is a broad-spectrum chlorinated organophosphate insecticide widely used in agriculture and as a biocide for non-agricultural pests. It has been used on various crops (corn, soybeans, alfalfa, oranges, wheat, and walnuts) as well as on lawns and ornamental plants. There are also public health uses, including adulticidal fogger treatments for mosquitoes, and the control of fire ants and certain species of ticks that may transmit diseases.

### Reference

1. Proposal to list chlorpyrifos in Annex A to the Stockholm Convention on Persistent Organic Pollutants. UNEP/POPS/POPRC.17/5.
2. Additional information relating to the proposal to list chlorpyrifos in Annex A to the Stockholm Convention on Persistent Organic Pollutants. UNEP/POPS/POPRC.17/INF/4.

### Hazards and Risks to human health and the environment

*Chlorpyrifos is characterized by properties such as persistence in some environments, bioaccumulation and capacity to be long-range transported. It is released to the air, water and soil. Major health issues such as neurodevelopmental toxicity and neurotoxicity have been linked to chlorpyrifos exposure in humans. Uncertainty remains regarding its genotoxic potential. Chlorpyrifos is highly toxic to aquatic communities, early life stages of fish and aquatic invertebrates, bees, birds and mammals. Moreover, it exhibits effects at very low and environmentally relevant concentrations.*



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