

POPs Chemicals

Chlordecone

CAS No. 143-50-0

Full Name: 1,1a,3,3a,4,5,5a,5b,6-decachloro-octahydro-1,3,4-metheno-2H-cyclobuta-[cd]-pentalen-2-one

Synonyms:

Decachloropentacyclo(5.2.1.0'2,6.0'3,9.0'5,8)decan-4-one; decachlorooctahydro-1,3,4-metheno-2H,5H-cyclobuta-[cd]-pentalen-2-one; decachloroiketone

Trade names: GC 1189; Kepone; Merex; ENT 16391; Curlone

Uses: Chlordecone has been used in various parts of the world for the control of a wide range of pests. In particular, Chlordecone has been used extensively in the tropics for the control of banana root borer. It has been used as a fly larvicide, as a fungicide against apple scab and powdery mildew, to control the Colorado potato beetle, the rust mite on non-bearing citrus, and the potato and tobacco wireworm on gladioli and other plants. Chlordecone has also been used in household products such as ant and roach traps.

Stockholm Convention: Chlordecone is listed in Annex A to the Stockholm Convention without specific exemptions (decision SC-4/12).

Hazards and risks to human health and the environment:

Chlordecone is highly persistent in the environment, has a high potential for bioaccumulation and biomagnification and based on physico-chemical properties and modelling data, chlordecone can be transported for long distances. It is classified as a possible human carcinogen and is very toxic to aquatic organisms.



Reference

1. Revised risk profile on chlordecone; Persistent Organic Pollutants Review Committee 2007; UNEP/POPS/POPRC.3/20/Add.10
2. Risk management evaluation on chlordecone. Persistent Organic Pollutants Review Committee 2007; UNEP/POPS/POPRC.3/20/Add.2



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STOCKHOLM CONVENTION

