POPs Chemicals

Hexabromocyclododecane (HBCDD)

CAS No. 25637-99-4; 3194-55-6; 134237-50-6; 134237-51-7; 134237-52-8

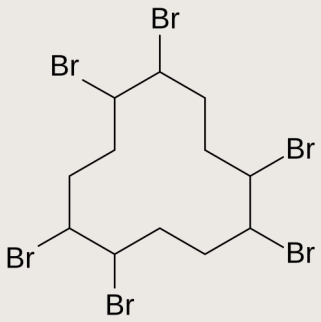
Full Name: Hexabromocyclododecane; 1,2,5,6,9,10-hexabromocyclododecane

Trade Name: Cyclododecane, hexabromo; HBCD; Bromkal 73-6CD; Nikkafainon CG 1; Pyroguard F 800; Pyroguard SR 103; Pyroguard SR 103A; Pyrovatex 3887; Great Lakes CD-75P™; Great Lakes CD-75; Great Lakes CD75XF; Great Lakes CD75PC (compacted); Dead Sea Bromine Group Ground FR 1206 ILM; Dead Sea Bromine Group Standard FR 1206 I-LM; Dead Sea Bromine Group Compacted FR 1206 I-CM

Uses: HBCDD is used as a flame retardant additive, with the intent of delaying ignition and slowing subsequent fire growth during the service life of vehicles, buildings or articles, as well as while materials are stored. The main uses of HBCDD are in flame-retarded expanded (EPS) and extruded (XPS) polystyrene foam for insulation and construction, with other uses in textile applications and electric and electronic appliances (high impact polystyrene/HIPS). In textiles, HBCDD is used in backcoatings for upholstery and other interior textiles, including automotive applications. The volumes of HBCDD flame retarded articles imported and exported globally are generally unknown.

Stockholm Convention: HBCDD is listed in Annex A to the Stockholm Convention with specific exemptions for production and use in EPS and XPS in buildings (decision SC-6/13).

Hazards and risks to human health and the environment: *HBCDD has a strong potential to bioaccumulate and biomagnify . It is persistent in the environment, and has a potential for long-range environmental transport. It is very toxic to aquatic organisms. Though information on the human toxicity of HBCDD is to a great extent lacking, vulnerable groups could be at risk, particularly to the observed neuroendocrine and developmental toxicity of HBCDD.*



Reference

1. Risk profile on hexabromocyclododecane. Persistent Organic Pollutants Review Committee 2010; UNEP/POPS/POPRC.6/13/Add.2
2. Risk management evaluation for hexabromocyclododecane. Persistent Organic Pollutants Review Committee 2011; UNEP/POPS/POPRC.7/19/Add.1
3. Addendum to the risk management evaluation on hexabromocyclododecane. Persistent Organic Pollutants Review Committee 2012; UNEP/POPS/POPRC.8/16/Add.3

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