

POPs Chemicals

Hexachlorobutadiene

CAS No. 87-68-3

HS Code: 2903299090

Full Name: Hexachlorobutadiene

Trade Name:

C-46, Dolen-pur, GP40-66:120, UN2279.

Synonyms:

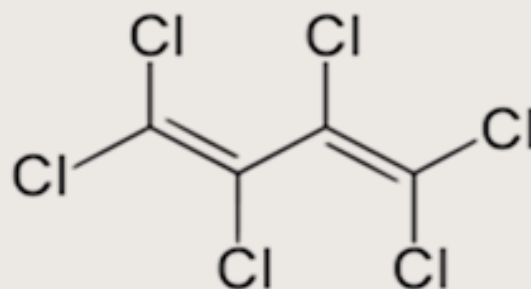
HCBD; perchloro-1, 3-butadine; perchlorobutadiene; 1,3- hexachlorobutadine; 1,3-butadiene, 1,1,2,3,4,4-hexachloro-; 1,3- butadiene, hexachloro-; hexachlorobuta-1,3-diene;1

Uses:

Hexachlorobutadiene (HCBD) is unintentionally formed and released from the production of certain chlorinated hydrocarbons, magnesium, polyvinyl chloride, ethylene dichloride and vinyl chloride monomer and incineration of acetylene, chlorine residues caused by poor abatement control. Previously, it was intentionally produced or used in the production of lubricants, as a solvent, a heat transfer liquid and hydraulic liquid, yet HCBD is not known to be currently intentionally produced or used.

Hazards and Risks to human health and the environment:

HCBD is long-range transported, persistent and highly toxic to aquatic organisms and birds. It can affect food chain due to its bioaccumulation and persistence. HCBD has been shown to cause irritation, nervous system depression and kidney damage when inhaled at higher levels. It may have an adverse effect to fatty liver degeneration as well. According to the EPA, it is classified as a possible human carcinogen.



Reference

1. Evaluation of new information in relation to the listing of hexachlorobutadiene in Annex C to the Stockholm Convention on Persistent Organic Pollutants. Persistent Organic Pollutants Review Committee. 2016; UNEP/POPS/POPRC.12/11/Add.5
2. Risk management evaluation on hexachlorobutadiene. Persistent Organic Pollutants Review Committee. 2013; UNEP/POPS/POPRC.9/13/Add.2
3. US Environmental Protection Agency Office of Water. Health Effects Support Document for Hexachlorobutadiene. US Environmental Protection Agency. 2003; EPA 822-R-03-002. (https://www.epa.gov/sites/production/files/2014-09/documents/support_cc1_hexachlorobutadiene_healtheffects.pdf, accessed 16 June 2017)
4. Risk profile on hexachlorobutadiene. Persistent Organic Pollutants Review Committee. 2012; UNEP/POPS/POPRC.8/16/Add.2