

**Annex C****Unintentional production****Part I****Persistent organic pollutants subject to the requirements of Article 5**

This Annex applies to the following persistent organic pollutants when formed and released unintentionally from anthropogenic sources:

<b>Chemical</b>
Hexachlorobenzene (HCB) (CAS-No: 118-74-1)
Pentachlorobenzene (PeCB)(CAS No: 608-93-5)
Polychlorinated biphenyls (PCB)
Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)

**Part II****Source categories**

Hexachlorobenzene, pentachlorobenzene, polychlorinated biphenyls and polychlorinated dibenzo-p-dioxins and dibenzofurans are unintentionally formed and released from thermal processes involving organic matter and chlorine as a result of incomplete combustion or chemical reactions. The following industrial source categories have the potential for comparatively high formation and release of these chemicals to the environment:

- a. Waste incinerators, including co-incinerators of municipal, hazardous or medical waste or of sewage sludge;
- b. Cement kilns firing hazardous waste;
- c. Production of pulp using elemental chlorine or chemicals generating elemental chlorine for bleaching;
- d. The following thermal processes in the metallurgical industry:
  - i. Secondary copper production;
  - ii. Sinter plants in the iron and steel industry;
  - iii. Secondary aluminium production;
  - iv. Secondary zinc production.

**Part III****Source categories**

Hexachlorobenzene, pentachlorobenzene, polychlorinated biphenyls and polychlorinated dibenzo-p-dioxins and dibenzofurans may also be unintentionally formed and released from the following source categories, including:

- a. Open burning of waste, including burning of landfill sites;
- b. Thermal processes in the metallurgical industry not mentioned in Part II;
- c. Residential combustion sources;
- d. Fossil fuel-fired utility and industrial boilers;
- e. Firing installations for wood and other biomass fuels;
- f. Specific chemical production processes releasing unintentionally formed persistent organic pollutants,
- g. especially production of chlorophenols and chloranil;
- h. Crematoria;
- i. Motor vehicles, particularly those burning leaded gasoline;
- j. Destruction of animal carcasses;
- k. Textile and leather dyeing (with chloranil) and finishing (with alkaline extraction);
- l. Shredder plants for the treatment of end of life vehicles;
- m. Smouldering of copper cables;
- n. Waste oil refineries.

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