



## POPs testing

POPs is short for Persistent Organic Pollutants . The persistent organic pollutants are the natural or artificially synthesized organic pollutants that possess toxic properties, resist degradation, bioaccumulate and are transported, through air, water and migratory species, across international boundaries and deposited far from their place of release, where they accumulate in terrestrial and aquatic ecosystems.



November 2004, EU approved the STOCKHOLM CONVENTION ON

PERSISTENT ORGANIC POLLUTANTS. From 20 May 2004, EU REGULATION (EC) No 850/2004 came into force, it bans the production, placing on the market and use of the listed substances. After that, EU published (EU) No 756/2010 and (EU) No 757/2010 in year 2010, (EU) No 519/2012 in year 2012, (EU) 2015/2030 in year 2015 to revise the regulation (EC) No 850/2004. Currently, totally 23 hazardous substances are restricted under EU POPs Annex I "LIST OF SUBSTANCES SUBJECT TO PROHIBITIONS".

HCT currently has the capability and detailed testing scheme for POPS TESTING, could help enterprises to arrange the POPs test and issue the test reports in comply with the (EC) No 850/2004 requirements, help enterprises to define whether the products are comply with (EC) No 850/2004 . For further POPs test enquiry, please contact us.

#### Contact us:

Shenzhen Hongcai testing technology co., LTD. (HCT)

Web: <http://www.hct-test.com/>

Hotline: 400-0066-989 T: (86) 755 8416666

Email: [service@hct-test.com](mailto:service@hct-test.com)

Add: 3rd floor, Block D, Peng Litai Industrial Estate, Long Ping West Road, Longgang District, Shenzhen City.

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# LIST OF SUBSTANCES SUBJECT TO RESTRICTIONS

**Table 1: Flame retardant (4 items)**

SUBSTANCE	CAS No	SPECIFIC EXEMPTION ON INTERMEDIATE USE OR OTHER SPECIFICATION
Heptabromodiphenyl ether $C_{12}H_3Br_7O$	/	1. For the purposes of this entry, Article 4(1)(b) shall apply to concentrations of heptabromodiphenyl ether equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances, preparations, articles or as constituents of the flame-retarded parts of articles. 2. By way of derogation, the production, placing on the market and use of the following shall be allowed: (a) without prejudice to subparagraph (b), articles and preparations containing concentrations below 0,1 % of heptabromodiphenyl ether by weight when produced partially or fully from recycled materials or materials from waste prepared for re-use;(b) electrical and electronic equipment within the scope of Directive 2002/95/EC. 3. Use of articles already in use in the Union before 25 August 2010 containing Heptabromodiphenyl ether as a constituent of such articles shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles.
Hexabromodiphenyl ether $C_{12}H_4Br_6O$	/	1. For the purposes of this entry, Article 4(1)(b) shall apply to concentrations of hexabromodiphenyl ether equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances, preparations, articles or as constituents of the flame-retarded parts of articles. 2. By way of derogation, the production, placing on the market and use of the following shall be allowed: (a) without prejudice to subparagraph (b), articles and preparations containing concentrations below 0,1 % of hexabromobiphenyl ether by weight when produced partially or fully from recycled materials or materials from waste prepared for re-use; (b) electrical and electronic equipment within the scope of Directive 2002/95/EC. 3. Use of articles already in use in the Union before 25 August 2010 containing Hexabromodiphenyl ether as a constituent of such articles shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles.
Pentabromodiphenyl ether $C_{12}H_5Br_5O$	/	1. For the purposes of this entry, Article 4(1)(b) shall apply to concentrations of pentabromodiphenyl ether equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances, preparations, articles or as constituents of the flame-retarded parts of articles. 2. By way of derogation, the production, placing on the market and use of the following shall be allowed: (a) without prejudice to subparagraph (b), articles and preparations containing concentrations below 0,1 % of pentabromodiphenyl ether by weight when produced partially or fully from recycled materials or materials from waste prepared for re-use; (b) electrical and electronic equipment within the scope of Directive 2002/95/EC. 3. Use of articles already in use in the Union before 25 August 2010 containing Pentabromodiphenyl ether as a constituent of such articles shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles.
Tetrabromodiphenyl ether	/	1. For the purposes of this entry, Article 4(1)(b) shall apply to concentrations of Tetrabromodiphenyl ether equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances, preparations, articles or as constituents of the flame-retarded parts of articles. 2. By way of derogation, the production, placing on the market and use of the following

	<p>shall be allowed:</p> <p>(a) without prejudice to subparagraph (b), articles and preparations containing concentrations below 0,1% of tetrabromodiphenyl ether by weight when produced partially or fully from recycled materials or materials from waste prepared for re-use;</p> <p>(b) electrical and electronic equipment within the scope of Directive 2002/95/EC of the European Parliament and Council.</p> <p>3. Use of articles already in use in the Union before 25 August 2010 containing Tetrabromodiphenyl ether as a constituent of such articles shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles.</p>
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**Table 2: Pesticides (11 items)**

SUBSTANCE	CAS No	SPECIFIC EXEMPTION ON INTERMEDIATE USE OR OTHER SPECIFICATION
Toxaphene	8001-35-2	/
Mirex	2385-85-5	/
Aldrin	309-00-2	/
Heptachlor	76-44-8	/
Endrin	72-20-8	/
Dieldrin	60-57-1	/
DDT (1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane)	50-29-3	/
Chlordane	57-74-9	/
Hexachlorocyclohexanes, including lindane	58-89-9 ; 319-84-6 ; 319-85-7 ; 608-73-1	/
Chlordecone	143-50-0	/
Endosulfan	115-29-7 959-98-8 33213-65-9	<p>1. Placing on the market and use of articles produced before or on 10 July 2012 containing endosulfan as a constituent of such articles shall be allowed until 10 January 2013.</p> <p>2. Placing on the market and use of articles already in use before or on 10 July 2012 containing endosulfan as a constituent of such articles shall be allowed.</p> <p>3. Article 4(2), third and fourth subparagraphs shall apply to articles referred to in paragraphs 1 and 2.'</p>

**Table 3: Halogenated aromatic compounds (6 items)**

SUBSTANCE	CAS No	SPECIFIC EXEMPTION ON INTERMEDIATE USE OR OTHER SPECIFICATION
Polychlorinated Biphenyls (PCB)	1336-36-3 and others	Without prejudice to Directive 96/59/EC, articles already in use at the time of entry into force of this Regulation are allowed to be used.
Hexachlorobenzene	118-74-1	/
Pentachlorobenzene	608-93-5	/
Hexachlorobutadiene	87-68-3	<ol style="list-style-type: none"> <li>1. Placing on the market and use of articles produced before or on 10 July 2012 containing hexachlorobutadiene as a constituent of such articles shall be allowed until 10 January 2013.</li> <li>2. Placing on the market and use of articles already in use before or on 10 July 2012 containing hexachlorobutadiene as a constituent of such articles shall be allowed.</li> <li>3. Article 4(2), third and fourth subparagraphs shall apply to articles referred to in paragraphs 1 and 2.</li> </ol>
Polychlorinated naphthalenes	/	<ol style="list-style-type: none"> <li>1. Placing on the market and use of articles produced before or on 10 July 2012 containing polychlorinated naphthalenes as a constituent of such articles shall be allowed until 10 January 2013.</li> <li>2. Placing on the market and use of articles already in use before or on 10 July 2012 containing polychlorinated naphthalenes as a constituent of such articles shall be allowed.</li> <li>3. Article 4(2), third and fourth subparagraphs shall apply to articles referred to in paragraphs 1 and 2.</li> </ol>
Hexabromobiphenyl	36355-01-8	/

**Table 4: Flame retardant & plasticizer (1 item)**

SUBSTANCE	CAS No	SPECIFIC EXEMPTION ON INTERMEDIATE USE OR OTHER SPECIFICATION
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	85535-84-8	<ol style="list-style-type: none"> <li>1. By way of derogation, the production, placing on the market and use of substances or preparations containing SCCPs in concentrations lower than 1 % by weight shall be allowed.</li> <li>2. By way of derogation, the production, placing on the market, and use of the following applications shall be allowed provided that Member States report to the Commission no later than 2015 and every four years thereafter on the progress made to eliminate SCCPs: <ol style="list-style-type: none"> <li>(a) fire retardants in rubber used in conveyor belts in the mining industry;</li> <li>(b) fire retardants in dam sealants.</li> </ol> </li> <li>3. Placing on the market and use of articles produced before or on 10 July 2012 containing SCCPs as a constituent of such articles shall be allowed until 10 January 2013.</li> </ol>

**Table 5: Surface active agent (1 item)**

SUBSTANCE	CAS No	SPECIFIC EXEMPTION ON INTERMEDIATE USE OR OTHER SPECIFICATION
<p>Perfluorooctane sulfonic acid and its derivatives (PFOS) C<sub>8</sub>F<sub>17</sub>SO<sub>2</sub>X (X = OH, Metal salt (O-M<sup>+</sup>), halide, amide, and other derivatives including polymers)</p>	<p>/</p>	<ol style="list-style-type: none"> <li>1. For the purposes of this entry, Article 4(1)(b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.</li> <li>2. For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1% by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1 µg/m<sup>2</sup> of the coated material.</li> <li>3. Use of articles already in use in the Union before 25 August 2010 containing PFOS as a constituent of such articles shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles.</li> <li>4. Fire-fighting foams that were placed on the market before 27 December 2006 may be used until 27 June 2011.</li> <li>5. If the quantity released into the environment is minimised, production and placing on the market is allowed for the following specific uses provided that Member States report to the Commission every four years on progress made to eliminate PFOS:             <ol style="list-style-type: none"> <li>(a) until 26 August 2015, wetting agents for use in controlled electroplating systems;</li> <li>(b) photoresists or anti reflective coatings for photolithography processes;</li> <li>(c) photographic coatings applied to films, papers, or printing plates;</li> <li>(d) mist suppressants for non- decorative hard chromium (VI) plating in closed loop systems;</li> <li>(e) hydraulic fluids for aviation. Where derogations in points (a) to (e) above concern the production or use in an installation within the scope of Directive 2008/1/EC of the European Parliament and of the Council (**), the relevant best available techniques for the prevention and minimisation of emissions of PFOS described in the information published by the Commission pursuant to Article 17(2), second subparagraph, of Directive 2008/1/EC shall apply. As soon as new information on details of uses and safer alternative substances or technologies for the uses in points (b) to (e) becomes available, the Commission shall review the derogations in the second subparagraph so that:                 <ol style="list-style-type: none"> <li>(i) the uses of PFOS will be phased out as soon as the use of safer alternatives is technically and economically feasible,</li> <li>(ii) a derogation can only be continued for essential uses for which safer alternatives do not exist and where the efforts undertaken to find safer alternatives have been reported on,</li> <li>(iii) releases of PFOS into the environment have been minimised by applying best available techniques.</li> </ol> </li> </ol> </li> <li>6. Once standards are adopted by the European Committee for Standardisation (CEN) they shall be used as the analytical test methods for demonstrating the conformity of substances, preparations and articles to paragraphs 1 and 2.</li> </ol>