

Persistent Organic Pollutants Regulation

欧盟持久性有机污染物法规

Regulation (EU) 2019/1021 includes five substance management list, as shown below:

(EU) 2019/1021 包含五个附件，分别为：

- Annex I List of substances subject to prohibitions 附件 I 禁止物质清单
- Annex II List of substances subject to restriction 附件 II 限制物质清单
- Annex III List of substances subject to release reduction provisions 附件 III 降低排放的物质清单
- Annex IV List of substances subject to waste management provisions set out in Article 7 附件 IV 第 7 条中废弃物管理规定的物质清单
- Annex V Waste management 附件 V 废弃物管理

Annex I List of Substances Subject to Prohibitions

附件 I 禁止物质清单

Part A Substances listed in the Convention and in the Protocol

A 部分 公约和议定书中列的物质

Substance 物质名称	CAS No CAS号	EC No EC号	Specific exemption on intermediate use or other specification 作为中间体使用或其它规范的特定豁免
Tetrabromodiphenyl ether 四溴二苯醚 <chem>C12H6Br4O</chem>	40088-47-9 and others	254-787-2 and others	<ol style="list-style-type: none">For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of tetrabromodiphenyl ether equal to or below 10 mg/kg (0,001 % by weight) where it is present in substances.For the purposes of the entries on tetra-, penta-, hexa-, hepta- and decaBDE, point (b) of Article 4(1) shall apply to the sum of the concentration of those substances up to 500 mg/kg where they are present in mixtures or articles, subject to review and assessment by the Commission by 16 July 2021. This review shall assess, inter alia, all relevant impacts with regard to health and the environment.By way of derogation, the manufacturing, placing on the market and use of the following shall be allowed: electrical and electronic equipment within the scope of Directive 2011/65/EU of the European Parliament and of the CouncilUse of articles already in use in the Union before 25 August 2010 containing tetrabromodiphenyl ether shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles. <ol style="list-style-type: none">就本条而言，当物质中四溴二苯醚浓度等于或小于10mg/kg (0.001% 重量计)，Article 4(1)(b)适用。就四溴-，五溴-，六溴-，七溴-和十溴二苯醚而言，当混合物或者物品中这五项物质的总量不超过500 mg/kg时，Article 4(1)(b) 适用。该项有待委员会在2021年7月16日之前对包括健康和环境在内的所有相关影响进行审查和评估。作为豁免，以下设备的生产、投放市场和使用是允许的：欧盟议会和理事会指令2011/65/EU范围内的电子电气产品。2010年8月25日前已经在欧盟使用的，含有四溴二苯醚的物品。Article 4(2)的第3，4小段适用于此类物品。

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Pentabromodiphenyl ether 五溴二苯醚 $C_{12}H_5Br_5O$	32534-81-9 and others	251-084-2 and others	<ol style="list-style-type: none"> For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of pentabromodiphenyl ether equal to or below 10 mg/kg (0,001 % by weight) where it is present in substances. For the purposes of the entries on tetra-, penta-, hexa-, hepta- and decaBDE, point (b) of Article 4(1) shall apply to the sum of the concentration of those substances up to 500 mg/kg where they are present in mixtures or articles, subject to review and assessment by the Commission by 16 July 2021. This review shall assess, inter alia, all relevant impacts with regard to health and the environment. By way of derogation, the manufacturing, placing on the market and use of the following shall be allowed: electrical and electronic equipment within the scope of Directive 2011/65/EU. Use of articles already in use in the Union before 25 August 2010 containing pentabromodiphenyl ether shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles. <ol style="list-style-type: none"> 就本条而言, 当物质中五溴二苯醚浓度等于或小于10mg/kg (0.001% 重量计), Article 4(1)(b)适用。 就四溴-, 五溴-, 六溴-, 七溴-和十溴二苯醚而言, 当混合物或者物品中这五项物质的总量不超过500 mg/kg时, Article 4(1)(b) 适用。该项有待委员会在2021年7月16日之前对包括健康和环境在内的所有相关影响进行审查和评估。 作为豁免, 以下设备的生产、投放市场和使用是允许的: 欧盟议会和理事会指令2011/65/EU范围内的电子电气产品。 2010年8月25日前已经在欧盟使用的, 含有五溴二苯醚的物品。Article 4(2)的第3, 4小段适用于此类物品。
Hexabromodiphenyl ether 六溴二苯醚 $C_{12}H_4Br_6O$	36483-60-0 and others	253-058-6 and others	<ol style="list-style-type: none"> For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of hexabromodiphenyl ether equal to or below 10 mg/kg (0,001 % by weight) where it is present in substances. For the purposes of the entries on tetra-, penta-, hexa-, hepta- and decaBDE, point (b) of Article 4(1) shall apply to the sum of the concentration of those substances up to 500 mg/kg where they are present in mixtures or articles, subject to review and assessment by the Commission by 16 July 2021. This review shall assess, inter alia, all relevant impacts with regard to health and the environment. By way of derogation, the manufacturing, placing on the market and use of the following shall be allowed: electrical and electronic equipment within the scope of Directive 2011/65/EU.

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			<p>4. Use of articles already in use in the Union before 25 August 2010 containing hexabromodiphenyl ether shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles.</p> <p>1. 就本条而言, 当物质中六溴二苯醚浓度等于或小于10mg/kg (0.001% 重量计), Article 4(1)(b)适用。</p> <p>2. 就四溴-, 五溴-, 六溴-, 七溴-和十溴二苯醚而言, 当混合物或者物品中这五项物质的总量不超过500 mg/kg时, Article 4(1)(b) 适用。该项有待委员会在2021年7月16日之前对包括健康和环境在内的所有相关影响进行审查和评估。</p> <p>3. 作为豁免, 以下设备的生产、投放市场和使用是允许的: 欧盟议会和理事会指令2011/65/EU范围内的电子电气产品。</p> <p>4. 2010年8月25日前已经在欧盟使用的, 含有六溴二苯醚的物品。Article 4(2)的第3, 4小段适用于此类物品。</p>
Heptabromodiphenyl ether 七溴二苯醚 $C_{12}H_3Br_7O$	68928-80-3 and others	273-031-2 and others	<p>1. For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of heptabromodiphenyl ether equal to or below 10 mg/kg (0,001 % by weight) where it is present in substances.</p> <p>2. For the purposes of the entries on tetra-, penta-, hexa-, hepta- and decaBDE, point (b) of Article 4(1) shall apply to the sum of the concentration of those substances up to 500 mg/kg where they are present in mixtures or articles, subject to review and assessment by the Commission by 16 July 2021. This review shall assess, inter alia, all relevant impacts with regard to health and the environment.</p> <p>3. By way of derogation, the manufacturing, placing on the market and use of the following shall be allowed: electrical and electronic equipment within the scope of Directive 2011/65/EU.</p> <p>4. Use of articles already in use in the Union before 25 August 2010 containing heptabromodiphenyl ether shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles.</p> <p>1. 就本条而言, 当物质中七溴二苯醚浓度等于或低于 10mg/kg (0.001% 重量计), Article 4(1)(b)适用。</p> <p>2. 就四溴-, 五溴-, 六溴-, 七溴-和十溴二苯醚而言, 当混合物或者物品中这五项物质的总量不超过500 mg/kg时, Article 4(1)(b) 适用。该项有待委员会在2021年7月16日之前对包括健康和环境在内的所有相关影响进行审查和评估。</p> <p>3. 作为豁免, 以下设备的生产、投放市场和使用是允许的: 欧盟议会和理事会指令2011/65/EU范围内的电子电气产品。</p> <p>4. 2010年8月25日前已经在欧盟使用的, 含有七溴二苯醚的物品。Article 4(2)的第3, 4小段适用于此类物品。</p>

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Bis(pentabromophenyl) ether (decabromodiphenyl ether; decaBDE) 十溴二苯醚	1163-19-5	214-604-9	<ol style="list-style-type: none">For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of decaBDE equal to or below 10 mg/kg (0,001 % by weight) where it is present in substances.For the purposes of the entries on tetra-, penta-, hexa-, hepta- and decaBDE, point (b) of Article 4(1) shall apply to the sum of the concentrations of those substances up to 500 mg/kg where they are present in mixtures or articles, subject to review and assessment by the Commission by 16 July 2021. This review shall assess, inter alia, all relevant impacts with regard to health and the environment.By way of derogation, the manufacturing, placing on the market and use of decaBDE shall be allowed for the following purposes, provided that Member States report to the Commission by December 2019 in accordance with the Convention:<ol style="list-style-type: none">in the manufacturing of an aircraft, for which type approval has been applied for before 2 March 2019 and has been received before December 2022, until 18 December 2023, or, in cases where the continuing need is justified, until 2 March 2027;in the manufacturing of spare parts for either of the following:<ol style="list-style-type: none">an aircraft, for which type approval has been applied for before 2 March 2019 and has been received before December 2022, produced before 18 December 2023, or, in cases where the continuing need is justified, produced before 2 March 2027, until the end of service life of that aircraft;motor vehicles within the scope of Directive 2007/46/EC of the European Parliament and of the Council, produced before 15 July 2019, either until 2036 or the end of service life of those motor vehicles, whichever date comes earlier;electric and electronic equipment within the scope of Directive 2011/65/EU.The specific exemptions for spare parts for use in motor vehicles referred to in point 3(b)(ii) shall apply for the manufacturing and use of commercial decaBDE falling into one or more of the following categories:<ol style="list-style-type: none">powertrain and under-hood applications such as battery mass wires, battery interconnection wires, mobile air condition (MAC) pipes, powertrains, exhaust manifold bushings, under- hood insulation, wiring and

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			<p>harness under-hood (engine wiring, etc.), speed sensors, hoses, fan modules and knock sensors;</p> <p>(b) fuel system applications such as fuel hoses, fuel tanks and fuel tanks under body;</p> <p>(c) pyrotechnical devices and applications affected by pyrotechnical devices such as airbag ignition cables, seat covers/fabrics (only if airbag relevant) and airbags (front and side).</p> <p>5. Use of articles already in use before 15 July 2019 in the Union containing decaBDE shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles.</p> <p>6. Without prejudice to the application of other Union provisions on the classification, packaging and labelling of substances and mixtures, articles in which decaBDE is used shall be identifiable by labelling or other means throughout its life cycle.</p> <p>7. The placing on the market and use of articles containing decaBDE imported for the purposes of the specific exemptions in point 3 shall be allowed until the expiry of those exemptions. Point 6 shall apply as if such articles were produced pursuant to the exemption in point 3. Such articles already in use by the date of expiry of the relevant exemption may continue to be used.</p> <p>8. For the purposes of this entry 'aircraft' means the following:</p> <p>(a) a civil aircraft produced in accordance with a type certificate issued under Regulation (EC) No 216/2008 of the European Parliament and of the Council or with a design approval issued under the national regulations of a contracting state of ICAO, or for which a certificate of airworthiness has been issued by an ICAO Contracting State under Annex 8 to the Convention on International Civil Aviation;</p> <p>(b) a military aircraft.</p> <p>1. 就本条而言, 当物质中十溴二苯醚浓度等于或小于10mg/kg (0.001% 重量计), Article 4(1)(b)适用。</p> <p>2. 就四溴-, 五溴-, 六溴-, 七溴-和十溴二苯醚而言, 当混合物或者物品中这五项物质的总量不超过500 mg/kg时, Article 4(1)(b) 适用。该项有待委员会在2021年7月16日之前对包括健康和环境在内的所有相关影响进行审查和评估。</p> <p>3. 作为豁免, 若成员国在 2019 年 12 月之前根据公约向委员会报告, 允许用于以下目的十溴二苯醚的制造、投放市场和使</p>

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			<p>用：</p> <p>(a) 用于制造在2019年3月2日之前申请型号认可，并在2022年12月之前收到批准的飞机，直到2023年12月18日，或者在有持续需要的情况下，直到2027年3月2日；</p> <p>(b) 用于制造下列任何一种零件：</p> <p>(i) 已在2019年3月2日之前申请，并在2022年12月之前收到型号批准，2023年12月18日之前生产的飞机，或者在有持续需求的情况下，2027年3月2日之前生产的飞机，直至该飞机的使用寿命终止；</p> <p>(ii) 在2019年7月15日之前生产的，欧洲议会和理事会第2007/46/EC号指令范围内的机动车，直至2036年或这些机动车辆的使用寿命结束（以较早日期为准）；</p> <p>(c) 指令2011/65/EU范围内的电子电气设备。</p> <p>4. 第3(b)(ii)点提到的用于汽车的备件的特殊豁免应适用于以下类别中的一种或多种的商用十溴二苯醚的制造和使用：</p> <p>(a) 动力总成和引擎盖下的应用，例如电池质量导线，电池互连线，移动空调（MAC）管道，动力总成，排气歧管衬套，引擎盖下的隔热层，引擎盖和线束（引擎线等），速度传感器，软管，风扇模块和爆震传感器；</p> <p>(b) 燃油系统的应用，例如燃油软管，燃油箱和车身下方的燃油箱；</p> <p>(c) 烟火设备和受烟火设备影响的应用，例如安全气囊点火电缆，座椅套/织物（仅指与安全气囊有关的）和安全气囊（正面和侧面）。</p> <p>5. 2019年7月15日之前投放联盟的物品允许含有十溴二苯醚。 Article 4(2) 的第 3,4小段适用于相应物品。</p> <p>6. 在不影响欧盟关于物质和混合物的分类、包装和标签的其他规定的适用的情况下，使用十溴二苯醚的物品应在其整个生命周期中通过标签或其他方式进行识别。</p> <p>7. 因第3点中为特定豁免目的进口的含有十溴二苯醚的物品允许投放市场和使用，直到这些豁免到期为止。 第6点应适用，如此类物品是根据第3点的豁免规定生产的。在相关豁免期满之日已经使用的此类物品可以继续使用。</p> <p>8. 在此条中，“飞机”是指：</p> <p>(a) 根据欧洲议会和理事会第216/2008号条例签发的型式证书生产的民用飞机，或根据国际民航组织缔约国的国家法规颁发的设计批准生产的民用飞机，或者国际民航组织缔约国已根据《国际民用航空公约》附件8签发了适航证书；</p> <p>(b) 军用飞机。</p>

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Perfluorooctane sulfonic acid and its derivatives (PFOS) C ₈ F ₁₇ SO ₂ X (X = OH, Metal salt (O-M ⁺), halide, amide, and other derivatives including polymers) 全氟辛烷磺酸及其衍生物 (PFOS) C ₈ F ₁₇ SO ₂ X (X = OH、金 属盐 (O-M ⁺)、卤化物、 酰胺和其他衍生物, 包括 聚合物)	1763-23-1 2795-39-3 29457-72-5 29081-56-9 70225-14-8 56773-42-3 251099-16-8 4151-50-2 31506-32-8 1691-99-2 24448-09-7 307-35-7 and others	217-179-8 220-527-1 249-644-6 249-415-0 274-460-8 260-375-3 223-980-3 250-665-8 216-887-4 246-262-1 206-200-6 and others	<ol style="list-style-type: none"> For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) where it is present in substances or in mixtures. For the purposes of this entry, point (b) of Article 4(1) 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/m² of the coated material. Use of articles already in use in the Union before 25 August 2010 containing PFOS shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles. If the quantity released into the environment is minimised, manufacturing and placing on the market shall be allowed until 7 September 2025 for use as mist suppressant for non-decorative hard chromium (VI) plating in closed loop systems. Provided that those Member States where PFOS is used report to the Commission by 7 September 2024 on progress made to eliminate PFOS and justify the continuing need for this use, the Commission shall review the need for a prolongation of the derogation for this use of PFOS for a maximum of five years by 7 September 2025. <p>Where such a derogation concerns production or use in an installation within the scope of Directive 2008/1/EC of the European Parliament and of the Council (4), 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.</p> <p>As soon as new information on details of uses and safer alternative substances or technologies becomes available, the Commission shall review the derogation in the second subparagraph so that:</p> <ol style="list-style-type: none"> the uses of PFOS will be phased out as soon as the use of safer alternatives is technically and economically feasible; 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;

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			<p>(c) releases of PFOS into the environment have been minimised by applying best available techniques.</p> <p>5. 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, mixtures and articles to points 1 and 2. Any other analytical method for which the user can prove equivalent performance could be used as an alternative to the CEN standards.</p> <p>1. 就本条而言，物质或混合物中的PFOS浓度小于或等于10mg/kg (0.001% 重量计)，Article 4(1)(b)适用。</p> <p>2. 就本条而言，Article 4(1)(b)适用于PFOS含量低于0.1% (不同部件中PFOS的含量之和) 的半成品、物品或物品的部件，或涂层材料中PFOS含量低于1µg/m²的纺织品和其它涂层材料。</p> <p>3. 2010年8月25日前已经投入使用的含有PFOS组分的物品，可继续使用。Article 4(2)的第3,4段适用于该类物品。</p> <p>4. 如果释放到环境中的量能够最小化，则在2025年9月7日前允许以下用途的PFOS生产和投放市场：在闭环系统中用于非装饰性硬铬 (VI) 镀层防雾剂。如果在2024年9月7日前有使用PFOS的成员国向委员会报告淘汰PFOS的进展并证明延长该用途豁免的必要性，委员会经审核、评估后应于2025年9月7日前决定是否继续延长该豁免期限（至多5年）。如果此类豁免关系到欧盟议会和理事会指令2008/1/EC范围内的设备中的生产和使用，2008/1/EC指令Article17(2)第2段中所述防治和降低PFOS排放的相关最佳可用技术适用。</p> <p>一旦获得关于使用细节和更安全的替代物质或技术可行的新信息，委员会应审查第二小段中的豁免，以便：</p> <p>(a) 一旦使用更安全的替代品在技术和经济上可行，就会逐步淘汰PFOS的使用；</p> <p>(b) 只有在不存在更安全的替代品并且已报告为寻找更安全的替代品所做的努力的必要用途时，才能继续豁免；</p> <p>(c) 通过采用最佳可用技术，已将PFOS释放到环境中的数量降至最低。</p> <p>5. 一旦标准被欧盟标准委员会 (CEN) 采纳，则应该被用作判定第1段和第2段中物质、配制品和物品是否合格的分析测试方法。任何其他可证明与之等效的的分析测试方法可作为CEN标准的替代。</p>
DDT (1,1,1-trichloro-2,2-bis(4-chloro-phenyl)ethane)	50-29-3	200-024-3	—

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2,2-双(4-氯苯基)-1,1,1-三氯乙烷			
Chlordane 氯丹	57-74-9	200-349-0	—
Hexachlorocyclohexane s, including lindane 六氯环己烷, 包括林丹	58-89-9	200-401-2	—
	319-84-6	206-270-8	
	319-85-7	206-271-3	
	608-73-1	210-168-9	
Dieldrin 狄氏剂	60-57-1	200-484-5	—
Endrin 异狄氏剂	72-20-8	200-775-7	—
Heptachlor 七氯化萆	76-44-8	200-962-3	—
Endosulfan 硫丹	115-29-7 959-98-8 33213-65-9	204-079-4	<ol style="list-style-type: none"> 1. 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. 2. Article 4(2), third and fourth subparagraphs shall apply to articles referred to in paragraphs 1. <ol style="list-style-type: none"> 1. 2012年7月10日前已投入使用的含有硫丹组分的物品, 可继续投放市场和使用。 2. Article 4(2) 的第3,4小段适用于第1段中所指物品。
Hexachlorobenzene 六氯苯	118-74-1	200-273-9	<p>For the purposes of this entry, Article 4(1), point (b), shall apply to concentrations of hexachlorobenzene equal to or below 10 mg/kg (0,001 % by weight) where it is present in substances, mixtures or articles.</p> <p>就本条而言, Article 4(1)(b)项适用于六氯苯含量等于或小于10 mg/kg (0.001% 重量计) 的物质、混合物或物品。</p>

Substance 物质名称	CAS No CAS号	EC No EC号	Specific exemption on intermediate use or other specification 作为中间体使用或其它规范的特定豁免
Chlordecone 十氯酮	143-50-0	205-601-3	—
Aldrin 艾氏剂	309-00-2	206-215-8	—
Pentachlorobenzene 五氯苯	608-93-5	210-172-5	—
Polychlorinated Biphenyls (PCB) 多氯联苯 PCB	1336-36-3 and others	215-648-1 and others	Without prejudice to Directive 96/59/EC, articles already in use at the time of the entry into force of this Regulation are allowed to be used. Member States shall identify and remove from use equipment (e.g. transformers, capacitors or other receptacles containing liquid stocks) containing more than 0,005 % PCBs and volumes greater than 0,05 dm ³ , as soon as possible but no later than 31 December 2025. 在不违背 96/59/EC指令的情况下, 在该法规本条款实施前已投入使用的物品仍允许使用。 成员国应尽快但不迟于2025年12月31日, 识别并淘汰多氯联苯含量大于0.005%的且体积大于0.05 dm ³ 的设备 (例如变压器, 电容器或其他装有液体的容器)
Mirex 灭蚁灵	2385-85-5	219-196-6	—
Toxaphene 毒杀芬	8001-35-2	232-283-3	—
Hexabromobiphenyl 六溴联苯	36355-01-8	252-994-2	—
Hexabromocyclododecane 六溴环十二烷, HBCDD	25637-99-4 3194-55-6 134237-50-6	247-148-4 221-695-9	1. For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of hexabromocyclododecane equal to or below 100 mg/kg (0,01 % by weight) where it is present in substances, mixtures, articles or as constituents of the flame-retarded articles, subject to review by the Commission by 22 March 2019.

Substance 物质名称	CAS No CAS号	EC No EC号	Specific exemption on intermediate use or other specification 作为中间体使用或其它规范的特定豁免
<p>'Hexabromocyclododecane' means:</p> <p>hexabromocyclododecane, 1,2,5,6,9,10-hexabromocyclododecane and its main diastereoisomers:</p> <p>alpha-hexabromocyclododecane; beta-hexabromocyclododecane; and gamma-hexabromocyclododecane</p> <p>“六溴环十二烷”是指：六溴环十二烷、1,2,5,6,9,10-六溴环十二烷及其主要非对映异构体：α-六溴环十二烷；β-六溴环十二烷；和γ-六溴环十二烷</p>	<p>134237-51-7</p> <p>134237-52-8</p>		<p>2. Expanded polystyrene articles containing hexabromocyclododecane already in use in buildings before 21 February 2018 in accordance with Commission Regulation (EU) 2016/293 and Commission Implementing Decision No 2016/C 12/06, and extruded polystyrene articles containing hexabromocyclododecane already in use in buildings before 23 June 2016 may continue to be used. Article 4(2), third and fourth subparagraphs shall apply to such articles.</p> <p>3. Without prejudice to the application of other Union provisions on the classification, packaging and labelling of substances and mixtures, expanded polystyrene placed on the market after 23 March 2016 in which hexabromocyclododecane was used shall be identifiable by labelling or other means throughout its life cycle.</p> <p>1. 当物质、混合物、物品及物品的阻燃部分中六溴环十二烷浓度等于或小于100mg/kg(0.01% 重量计)，Article4(1)(b)适用，委员会将于2019年3月22日前进行审查。</p> <p>2. 已根据欧盟法规（EU）2016/293和委员会实施决定第2016/C 12/06号规定，在2018年2月21日之前已用于建筑物的含六溴环十二烷的发泡聚苯乙烯制品，以及2016年6月23日之前已用于建筑物的含六溴环十二烷的挤塑聚苯乙烯制品可继续使用。Article 4(2)第3，4小段适用于此类条款。</p> <p>3. 在不影响欧盟关于物质和混合物的分类、包装和标签的其他规定的前提下，2016年6月23日之后投放市场的含有六溴环十二烷组分的发泡聚苯乙烯，在其整个生命周期内，应采用标签或其他手段加以识别。</p>
Hexachlorobutadiene 六氯丁二烯	87-68-3	201-765-5	<p>1. Placing on the market and use of articles already in use before or on 10 July 2012 containing hexachlorobutadiene shall be allowed.</p> <p>2. Article 4(2), third and fourth subparagraphs shall apply to articles referred to in point 1.</p>

Substance 物质名称	CAS No CAS号	EC No EC号	Specific exemption on intermediate use or other specification 作为中间体使用或其它规范的特定豁免
			<ol style="list-style-type: none"> 2012年7月10日之前已经在用的含有六氯丁二烯的物品允许投放市场和使用。 Article 4(2)中第3, 4小段适用于以上第1段所涉及物品。
Pentachlorophenol and its salts and esters 五氯苯酚及其盐类和酯类	87-86-5 and others	201-778-6 and others	<p>For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of pentachlorophenol and its salts and esters equal to or below 5 mg/kg (0,0005 % by weight) where they are present in substances, mixtures or articles.</p> <p>就本条而言, Article 4(1)(b)项适用于五氯苯酚及其盐类和酯类含量等于或小于 5 mg/kg (0.0005% 重量计) 的物质、混合物或物品。</p>
Polychlorinated naphthalenes 多氯化萘			<ol style="list-style-type: none"> Placing on the market and use of articles already in use before or on 10 July 2012 containing polychlorinated naphthalenes shall be allowed. Article 4(2), third and fourth subparagraphs shall apply to articles referred to in point 1. <ol style="list-style-type: none"> 2012年7月10日之前已经在用的含有多氯化萘的物品允许投放市场和使用。 Article 4(2)中第3, 4小段适用于以上第1段所涉及物品。
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) 短链氯化石蜡	85535-84-8	287-476-5	<ol style="list-style-type: none"> By way of derogation, the manufacturing, placing on the market and use of substances or mixtures containing SCCPs in concentrations lower than 1 % by weight or articles containing SCCPs in concentrations lower than 0,15 % by weight shall be allowed. Use shall be allowed in respect of: <ol style="list-style-type: none"> conveyor belts in the mining industry and dam sealants containing SCCPs already in use before or on 4 December 2015; and articles containing SCCPs other than those referred to in point (a) already in use before or on 10 July 2012. The third and fourth subparagraphs of Article 4(2) shall apply to the articles referred to in point 2. <p>1. 作为豁免, 允许生产、投放市场和使用SCCPs含量低于1% (重量计) 的物质或混合物, 或SCCPs含量低于0.15% (重量计) 的物品。</p>

Substance 物质名称	CAS No CAS号	EC No EC号	Specific exemption on intermediate use or other specification 作为中间体使用或其它规范的特定豁免
			<p>2. 以下使用应被允许:</p> <p>(a) 2015年12月4日前已经在用的含有SCCPs的采矿业中的传输带和大坝密封胶;</p> <p>(b) 2012年7月10日前已经在用的含有SCCPs的物品, 不包括(a)中所指物品。</p> <p>3. Article 4(2)中第3, 4小段适用于以上第2点所涉及物品。</p>
<p>Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds</p> <p>全氟辛酸, 其盐类和全氟辛酸相关化合物</p> <p>"Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds" means the following:</p> <p>(i) perfluorooctanoic acid, including any of its branched isomers;</p> <p>(ii) its salts;</p> <p>(iii) PFOA-related compounds which, for the purposes of the Convention, are any substances that</p>	335-67-1 and others	206-397-9 and others	<p>1. For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of PFOA or any of its salts equal to or below 0,025 mg/kg (0,0000025 % by weight) where they are present in substances, mixtures or articles.</p> <p>2. For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of any individual PFOA-related compound or a combination of PFOA-related compounds equal to or below 1 mg/kg (0,0001 % by weight) where they are present in substances, mixtures or articles.</p> <p>3. For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of PFOA-related compounds equal to or below 20 mg/kg (0,002 % by weight) where they are present in a substance to be used as a transported isolated intermediate within the meaning of Article 3 point 15(c) of Regulation (EC) No 1907/2006 and fulfilling the strictly controlled conditions set out in Article 18(4)(a) to (f) of that Regulation for the production of fluorochemicals with a perfluoro carbon chain equal to or shorter than 6 atoms.</p> <p>4. For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of PFOA and its salts equal to or below 1 mg/kg (0,0001 % by weight) where they are present in polytetrafluoroethylene (PTFE) micropowders produced by ionising irradiation or by thermal degradation as well as in mixtures and articles for industrial and professional uses containing PTFE micropowders.</p> <p>5. By way of derogation, the manufacturing, placing on the market and use of PFOA, its salts and PFOA-related compounds shall be allowed for the following purposes:</p> <p>(a) photolithography or etch processes in semiconductor manufacturing, until 4 July 2025;</p> <p>(b) photographic coatings applied to films, until 4 July 2025;</p> <p>(c) textiles for oil- and water-repellency for the protection of workers from dangerous liquids that comprise risks to their health and safety, until 4 July 2023;</p>

Substance 物质名称	CAS No CAS号	EC No EC号	Specific exemption on intermediate use or other specification 作为中间体使用或其它规范的特定豁免
<p>degrade to PFOA, including any substances (including salts and polymers) having a linear or branched perfluoroheptyl group with the moiety (C₇F₁₅)C as one of the structural elements.</p> <p>“全氟辛酸 (PFOA)、其盐类和 PFOA 相关化合物”是指:</p> <p>(i) 全氟辛酸, 包括其任何支链异构体;</p> <p>(ii) 其盐类;</p> <p>(iii) 全氟辛酸相关化合物, 就公约而言, 它是任何可降解为全氟辛酸的物质, 包括具有直链或支链全氟庚基的任何物质 (包括盐和聚合物), 其中 (C₇F₁₅)C 部分是结构要素。</p>			<p>(d) invasive and implantable medical devices, until 4 July 2025;</p> <p>(e) manufacture of polytetrafluoroethylene (PTFE) and polyvinylidene fluoride (PVDF) for the production of:</p> <p>(i) high-performance, corrosion-resistant gas filter membranes, water filter membranes and membranes for medical textiles;</p> <p>(ii) industrial waste heat exchanger equipment,</p> <p>(iii) industrial sealants capable of preventing leakage of volatile organic compounds and PM2.5 particulates; until 4 July 2023.</p> <p>6. By way of derogation, the use of PFOA, its salts and PFOA-related compounds shall be allowed in fire-fighting foam for liquid fuel vapour suppression and liquid fuel fire (Class B fires) already installed in systems, including both mobile and fixed systems, until 4 July 2025, subject to the following conditions:</p> <p>(a) fire-fighting foam that contains or may contain PFOA, its salts and/or PFOA-related compounds shall not be used for training;</p> <p>(b) fire-fighting foam that contains or may contain PFOA, its salts and/or PFOA-related compounds shall not be used for testing unless all releases are contained;</p> <p>(c) as from 1 January 2023, uses of fire-fighting foam that contains or may contain PFOA, its salts and/or PFOA-related compounds shall only be allowed in sites where all releases can be contained;</p> <p>(d) fire-fighting foam stockpiles that contain or may contain PFOA, its salts and/or PFOA-related compounds shall be managed in accordance with Article 5.</p> <p>7. By way of derogation, the use of perfluorooctyl bromide containing perfluorooctyl iodide for the purpose of producing pharmaceutical products shall be allowed, subject to review and assessment by the Commission by 31 December 2026, every four years thereafter and by 31 December 2036.</p> <p>8. Use of articles already in use in the Union before 4 July 2020 containing PFOA, its salts and/or PFOA-related compounds shall be allowed. Article 4(2), third and fourth subparagraphs shall apply in relation to such articles.</p> <p>9. By way of derogation, the manufacturing, placing on the market and use of PFOA, its salts and PFOA-related</p>

Substance 物质名称	CAS No CAS号	EC No EC号	Specific exemption on intermediate use or other specification 作为中间体使用或其它规范的特定豁免
<p>The following compounds are not included as PFOA-related compounds:</p> <p>(i) $C_8F_{17}-X$, where $X = F, Cl, Br$;</p> <p>(ii) fluoropolymers that are covered by $CF_3[CF_2]_n-R'$, where $R' = \text{any group}$, $n > 16$;</p> <p>(iii) perfluoroalkyl carboxylic acids (including their salts, esters, halides and anhydrides) with ≥ 8 perfluorinated carbons;</p> <p>(iv) perfluoroalkane sulfonic acids and perfluoro phosphonic acids (including their salts, esters, halides and anhydrides) with ≥ 9 perfluorinated carbons;</p>			<p>compounds shall be allowed until 3 December 2020 for the following purposes:</p> <p>(a) medical devices other than implantable ones, within the scope of Regulation (EU) 2017/745;</p> <p>(b) latex printing inks;</p> <p>(c) plasma nano-coatings.</p> <p>10. For the purposes of this entry, point (b) of Article 4(1) shall apply to concentrations of PFOA and its salts and/or PFOA-related compounds equal to or below 2 mg/kg (0.0002 % by weight) where they are present in medical devices other than invasive devices and implantable devices. This exemption shall be reviewed and assessed by the Commission no later than 22 February 2023.</p> <p>1. 就本条而言，法规第4(1)条第(b)点适用于在物质、混合物或物品中存在的浓度小于等于0.025mg/kg (0.0000025% 质量计) 的PFOA或其盐类。</p> <p>2. 就本条而言，法规第4(1)条第(b)点适用于在物质、混合物或物品中存在的浓度小于等于1mg/kg (0.0001% 质量计) 的单个PFOA相关化合物或PFOA相关化合物组。</p> <p>3. 就本条而言，法规第4(1)条第(b)点适用于作为REACH法规第3条第15(c)点定义的可转移的分离中间体，且全氟碳链小于等于6个原子的含氟化合物的生产过程符合REACH法规第18(4)(a)至(f)条规定的严格控制条件的，存在于物质中的浓度小于等于20mg/kg (0.002%质量计) 的PFOA相关化合物。</p> <p>4. 就本条而言，法规第4(1)条第(b)点适用于存在于通过电力辐射或通过热降解产生的PTFE细粉中，以及用于工业及专业用途的含有PTFE细粉的混合物及物品中，浓度小于等于1mg/kg (0.0001%质量计) 的PFOA及其盐类。</p> <p>5. 作为豁免，应允许用于以下目的的制造、投放市场及使用PFOA，其盐类以及PFOA相关化合物：</p> <p>(a) 半导体制造中的光刻工艺或蚀刻工艺，直至2025年7月4日；</p> <p>(b) 用于胶片的感光涂层，直至2025年7月4日；</p> <p>(c) 用于保护工人免受危害其健康和安全的危险液体伤害的防油及防水纺织品，直至2023年7月4日；</p> <p>(d) 侵入式或植入式医疗设备，直至2025年7月4日；</p> <p>(e) 生产聚四氟乙烯 (PTFE) 和聚偏二氟乙烯 (PVDF)，用于制造：</p>

Substance 物质名称	CAS No CAS号	EC No EC号	Specific exemption on intermediate use or other specification 作为中间体使用或其它规范的特定豁免
(v) perfluorooctane sulfonic acid and its derivatives (PFOS), as listed in this Annex. 以下化合物不属于全氟辛酸相关化合物： (i) C ₈ F ₁₇ -X, 其中 X = F、Cl、Br； (ii) 被CF ₃ [CF ₂] _n -R' 覆盖的含氟聚合物，其中R' = 任何基团，n > 16； (iii) 具有≥8 个全氟化碳的全氟烷基羧酸（包括它们的盐、酯、卤化物和酸酐）； (iv) 全氟烷磺酸和全氟膦酸（包括它们的盐、酯、卤化物和酸酐），具有 ≥ 9 个全氟化碳； (v) 全氟辛烷磺酸及其衍生物（PFOS），如本附件所列。			(i) 高性能、耐腐蚀的气体过滤膜，水过滤膜和医用纺织品膜； (ii) 工业废热交换设备； (iii) 能够防止挥发性有机化合物和PM2.5颗粒泄露的工业密封胶； 直至2023年7月4日。 6. 作为豁免，应允许PFOA，其盐类以及PFOA相关化合物用于已安装在系统上的用于抑制液体燃料蒸汽和液体燃料火灾（B级火灾）的灭火泡沫，包括移动和固定系统，直至2025年7月4日，但必须符合以下条件： (a) 含有或可能含有PFOA，其盐类以及PFOA相关化合物的灭火泡沫不得用于培训； (b) 含有或可能含有PFOA，其盐类以及PFOA相关化合物的灭火泡沫不得用于测试，除非其释放物能被控制； (c) 自2023年1月1日起，仅允许在可控制所有释放物的场所使用含有或可能含有PFOA，其盐类以及PFOA相关化合物的灭火泡沫； (d) 含有或可能含有PFOA，其盐类以及PFOA相关化合物的灭火泡沫库存应按照法规第5条进行管理。 7. 作为豁免，应允许将含全氟辛基碘的全氟辛基溴用于生产药品，委员会应在2026年12月31日，其后每四年以及2036年12月31日进行审查和评估。 8. 允许在2020年7月4日之前已在欧盟使用的含有PFOA，其盐类和/或PFOA相关化合物的物品。第4（2）条的第三和第四小段适用于此类物品。 9. 作为豁免，出于以下目的，2020年12月3日之前允许PFOA，其盐类以及PFOA相关化合物生产、投放市场和使用： (a) 法规2017/745范围内的除可植入设备外的医疗设备； (b) 乳胶印刷油墨； (c) 等离子纳米涂层。 10. 就本条而言，法规第4(1)条第(b)点适用于除侵入性设备和可植入设备以外的医疗设备中存在的、浓度小于等于2mg/kg（0.0002% 质量计）的PFOA及其盐类和/或PFOA相关物质。委员会应在2023年2月22日之前对该豁免进行审核和评估。
Dicofol 三氯杀螨醇	115-32-2	204-082-0	-

Part B Substances listed only in the Protocol

B 部分 仅议定书中所列物质

Substance 物质名称	CAS No CAS号	EC No EC号	Specific exemption on intermediate use or other specification 作为中间体使用或其它规范的特定豁免
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Annex II List of Substances Subject to Restriction

附件 II 限制物质清单

Part A Substances listed in the Convention and in the Protocol

A 部分 公约和议定书中所列物质

Substance 物质名称	CAS No CAS号	EC No EC号	Conditions of Restriction 限制条件
-			

Part B Substances listed only in the Protocol

B 部分 议定书中所列物质

Substance 物质名称	CAS No CAS号	EC No EC号	Conditions of Restriction 限制条件
-			

Annex III List of Substances Subject to Release Reduction Provisions

附件 III 降低排放的物质清单

Part A A 部分

Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF) 多氯二苯并对二噁英和呋喃 (PCDD/PCDF)

Polychlorinated biphenyls (PCB) 多氯联苯

Part B B 部分

Hexachlorobenzene (HCB) (CAS No 118-74-1) 六氯苯 (CAS 号: 118-74-1)

Polycyclic aromatic hydrocarbons (PAHs) 多环芳烃 (PAHs)

Pentachlorobenzene (CAS No 608-93-5) 五氯苯 (CAS 号: 608-93-5)

Hexachlorobutadiene (CAS No 87-68-3) 六氯丁二烯 (CAS 号: 87-68-3)

Polychlorinated naphthalenes (CAS No 70776-03-3 and others) 多氯萘 (CAS 号: 70776-03-3 及其他)

Annex IV List of substances subject to waste management provisions set out in Article 7

附件 IV 第 7 条中废弃物管理规定的物质清单

Substance 物质名称	CAS No CAS号	EC No EC号	Concentration limit referred to in Article 7(4)(a) Article 7(4)(a)中的浓度限值
Endosulfan 硫丹	115-29-7 959-98-8 33213-65-9	204-079-4	50 mg/kg
Hexachlorobutadiene 六氯丁二烯	87-68-3	201-765-5	100 mg/kg
Polychlorinated naphthalenes 多氯化萘			10 mg/kg
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) 短链氯化石蜡 (C10-C13) SCCPs	85535-84-8	287-476-5	1 500 mg/kg The Commission shall review that concentration limit and shall, where appropriate, adopt a legislative proposal to lower that value no later than 30 December 2027. 1500 mg/kg 2027年12月30日之前, 委员会应审查该浓度限值, 并酌情通过一项立法提案以降低该值。
Tetrabromodiphenyl ether C12H6Br4O 四溴二苯醚	40088-47-9 and others	254-787-2 and others	Sum of the concentrations of tetrabromodiphenyl ether C12H6Br4O, pentabromodiphenyl ether C12H5Br5O, hexabromodiphenyl ether C12H4Br6O, heptabromodiphenyl ether C12H3Br7O and decabromodiphenyl ether C12Br10O: (a) until 29 December 2027, 500 mg/kg; (b) from 30 December 2025 until 28 December 2027, 350 mg/kg, or, if higher, the sum of the concentration of those substances where they are present in mixtures or articles, as set out in the fourth column, point 2, of Annex I for the substances tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether,
Pentabromodiphenyl ether C12H5Br5O 五溴二苯醚	32534-81-9 and others	251-084-2 and others	
Hexabromodiphenyl ether C12H4Br6O 六溴二苯醚	36483-60-0 and others	253-058-6 and others	
Heptabromodiphenyl ether C12H3Br7O 七溴二苯醚	68928-80-3 and others	273-031-2 and others	

Substance 物质名称	CAS No CAS号	EC No EC号	Concentration limit referred to in Article 7(4)(a) Article 7(4)(a)中的浓度限值
Decabromodiphenyl ether C12Br10O 十溴二苯醚	1163-19-5 and others	214-604-9 and others	heptabromodiphenyl ether and decabromodiphenyl ether; (c) from 30 December 2027, 200 mg/kg or, if higher, the sum of the concentration of those substances where they are present in mixtures or articles, as set out in the fourth column, point 2, of Annex I for the substances tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether, heptabromodiphenyl ether and decabromodiphenyl ether. 四溴二苯醚, 五溴二苯醚, 六溴二苯醚, 七溴二苯醚和十溴二苯醚的浓度总和: (a) 截止至2025年12月29日, 500 mg/kg (b) 2025年12月30日至2027年12月28日, 350 mg/kg, 或附件I第四栏第2点所列存在于混合物或物品中的的四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚的浓度之和, 两者中取高者; (c) 2027年12月30日, 200 mg/kg, 或附件I第四栏第2点所列存在于混合物或物品中的的四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚的浓度之和, 两者中取高者。
Perfluorooctane sulfonic acid and its derivatives (PFOS) C8F17SO2X(X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers) 全氟辛烷磺酸及其衍生物 (PFOS)	1763-23-1 2795-39-3 29457-72-5 29081-56-9 70225-14-8 56773-42-3 251099-16-8 4151-50-2 31506-32-8 1691-99-2	217-179-8 220-527-1 249-644-6 249-415-0 274-460-8 260-375-3 223-980-3 250-665-8 216-887-4 246-262-1	50 mg/kg

Substance 物质名称	CAS No CAS号	EC No EC号	Concentration limit referred to in Article 7(4)(a) Article 7(4)(a)中的浓度限值
	24448-09-7 307-35-7 and others	206-200-6 and others	
Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF) and dioxin-like polychlorinated biphenyls (dl-PCBs) 多氯二苯并对二噁英、多氯二苯并呋喃 (PCDD/PCDF) 和类二噁英多氯联苯 (dl- PCBs)			5 µg/kg The Commission shall review that concentration limit and shall, where appropriate, adopt a legislative proposal to lower that value, where such lowering is feasible in accordance with scientific and technical progress, no later than 30 December 2027. 5 µg/kg 2027年12月30日之前, 委员会应审查该浓度限值, 并酌情通过一项立法提案, 在根据科学和技术 进步可行的情况下, 降低该值。
(1,1,1-trichloro-2,2-bis (4- chlorophenyl)ethane) 2,2-双(对氯苯基)-1,1,1-三氯乙烷 DDT	50-29-3	200-024-3	50 mg/kg
Chlordane 氯丹	57-74-9	200-349-0	50 mg/kg
Hexachlorocyclohexanes, including lindane 六氯环己烷, 包括林丹	58-89-9 319-84-6 319-85-7 608-73-1	210-168-9 200-401-2 206-270-8 206-271-3	50 mg/kg
Dieldrin 狄氏剂	60-57-1	200-484-5	50 mg/kg
Endrin	72-20-8	200-775-7	50 mg/kg

Substance 物质名称	CAS No CAS号	EC No EC号	Concentration limit referred to in Article 7(4)(a) Article 7(4)(a)中的浓度限值
异狄氏剂			
Heptachlor 七氯化茛	76-44-8	200-962-3	50 mg/kg
Hexachlorobenzene 六氯苯	118-74-1	200-273-9	50 mg/kg
Chlordecone 十氯酮	143-50-0	205-601-3	50 mg/kg
Aldrin 艾氏剂	309-00-2	206-215-8	50 mg/kg
Pentachlorobenzene 五氯苯	608-93-5	210-172-5	50 mg/kg
PCB Polychlorinated Biphenyls (PCB) 多氯联苯	1336-36-3 and others	215-648-1	50 mg/kg
Mirex 灭蚁灵	2385-85-5	219-196-6	50 mg/kg
Toxaphene 毒杀芬	8001-35-2	232-283-3	50 mg/kg
Hexabromobiphenyl 六溴联苯	36355-01-8	252-994-2	50 mg/kg
Hexabromocyclododecane 六溴环十二烷	25637-99-4 3194-55-6 134237-50-6 134237-51-7	247-148-4 221-695-9	500 mg/kg The Commission shall review that concentration limit and shall, where appropriate, adopt a legislative proposal to lower that value to not higher than 200 mg/kg no later than 30 December 2027.

Substance 物质名称	CAS No CAS号	EC No EC号	Concentration limit referred to in Article 7(4)(a) Article 7(4)(a)中的浓度限值
	134237-52-8		500 mg/kg 2027 年 12 月 30 日之前, 委员会应审查该浓度限值, 并酌情通过一项立法提案, 将该值降低至不超过 200 mg/kg。
Pentachlorophenol, its salts and esters 五氯苯酚及其盐类和酯类	87-86-5 and others	201-778-6 and others	100 mg/kg
Dicofol 三氯杀螨醇	115-32-2	204-082-0	50 mg/kg
Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds, as set out in Annex I 附件I所列全氟辛酸, 其盐类和全氟辛酸相关化 合物	335-67-1 and others	206-397-9 and others	1 mg/kg (PFOA and its salts), 40 mg/kg (sum of PFOA-related compounds) The Commission shall review that concentration limit and shall, where appropriate, adopt a legislative proposal to lower that value, where such lowering is feasible in accordance with scientific and technical progress, no later than 30 December 2027. 1 mg/kg (全氟辛酸及其盐类), 40 mg/kg (全氟辛酸相关化合物总和) 2027 年 12 月 30 日之前, 委员会应审查该浓度限值, 并酌情通过一项立法提案, 在根据科学和 技术进步可行的情况下, 降低该值。
Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds 全氟己烷磺酸 (PFHxS), 其盐类和PFHxS相关 化合物	355-46-4 and others	355-46-4 and others	1 mg/kg (PFHxS and its salts), 40 mg/kg (sum of PFHxS-related compounds) The Commission shall review that concentration limit and shall, where appropriate, adopt a legislative proposal to lower that value, where such lowering is feasible in accordance with scientific and technical progress, no later than 30 December 2027. 1 mg/kg (PFHxS 及其盐类), 40 mg/kg (PFHxS 相关化合物总和)

Substance 物质名称	CAS No CAS号	EC No EC号	Concentration limit referred to in Article 7(4)(a) Article 7(4)(a)中的浓度限值
			2027 年 12 月 30 日之前，委员会应审查该浓度限值，并酌情通过一项立法提案，在根据科学和技术进步可行的情况下，降低该值。

Annex V Part 2 Wastes and operations to which Article 7(4)(b) applies

附件 V 第 2 部分 第 7 条 4(b)适用的废弃物和操作

Wastes as classified in Decision 2000/532/EC 2000/532/EC规定的废弃物		Maximum concentration limits of substances listed in Annex IV 附件IV所列物质的最大含量	Operation 操作
10	WASTES FROM THERMAL PROCESSES 热过程产生的废物	Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs): 10 000 mg/kg;	Permanent storage shall be allowed only when all the following conditions are met: (1) The storage takes place in one of the following locations: — safe, deep, underground, hard rock formations, — salt mines, — a landfill site for hazardous waste, provided that the waste is solidified or partly stabilised where technically feasible as required for classification of the waste in subchapter 19 03 of Decision 2000/532/EC. (2) The provisions of Council Directive 1999/31/EC (6) and Council Decision 2003/33/EC (7) were respected.
1001	Wastes from power stations and other combustion plants (except 19) 发电厂和其他燃烧厂产生的废物 (第19项除外)	短链氯化石蜡: 10 000 mg/kg;	
100103	Fly ash from peat and untreated wood 泥炭和未经处理的木材产生的飞灰	Aldrin: 5 000 mg/kg; 艾氏剂: 5 000 mg/kg;	
100114	Bottom ash, slag and boiler dust from co-incineration containing hazardous substances 焚烧中含有有害物质的底灰, 炉渣和锅炉粉尘	Chlordane: 5 000 mg/kg; 氯丹: 5 000 mg/kg;	
100116	Fly ash from co-incineration containing hazardous substances 焚化过程中含有有害物质的粉煤灰	Chlordecone: 5 000 mg/kg; 十氯酮: 5 000 mg/kg;	
1002	Wastes from the iron and steel industry 钢铁行业产生的废物	DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl) ethane): 5 000 mg/kg; DDT (2,2-双(4-氯苯基)-1,1,1-三氯乙烷): 5 000 mg/kg;	
100207	Solid wastes from gas treatment containing hazardous substances 气体处理过程中产生的含有有害物质的固体废物	Dieldrin: 5 000 mg/kg; 狄氏剂: 5 000 mg/kg;	
1003	Wastes from aluminium thermal metallurgy 铝热冶炼产生的废物	Endosulfan: 5 000 mg/kg;	

Wastes as classified in Decision 2000/532/EC 2000/532/EC规定的废弃物		Maximum concentration limits of substances listed in Annex IV 附件IV所列物质的最大含量	Operation 操作
100304	Primary production slags 初级生产废渣	硫丹: 5 000 mg/kg;	<p>(3) It has been demonstrated that the selected operation is environmentally preferable.</p> <p>仅当满足以下所有条件时, 才允许永久存储:</p> <p>(1) 存放在以下任一位置:</p> <ul style="list-style-type: none"> — 安全, 深层, 地下, 坚硬的岩层; — 盐矿; — 危险废物的掩埋场, 已将废物固化或部分稳定。 <p>(2) 遵守理事会指令1999/31/EC和理事会决定2003/33/EC的规定。</p> <p>(3) 已证明所选操作在环境友好的。</p>
100308	Salt slags from secondary production 二次生产的盐渣	Endrin: 5 000 mg/kg; 异狄氏剂: 5 000 mg/kg;	
100309	Black drosses from secondary production 二次生产产生的黑渣	Heptachlor: 5 000 mg/kg; 七氯化茚: 5 000 mg/kg;	
100319	Flue-gas dust containing hazardous substances 含有有害物质的烟气粉尘	Hexabromobiphenyl: 5 000 mg/kg;	
100321	Other particulates and dust (including ball-mill dust) containing hazardous substances 其他含有有害物质的微粒和粉尘 (包括球磨机粉尘)	六溴联苯: 5 000 mg/kg;	
100329	Wastes from treatment of salt slags and black drosses containing hazardous substances 处理含有有害物质的盐渣和黑渣产生的废物	Hexabromocyclododecane : 1 000 mg/kg; 六溴环十二烷: 1 000 mg/kg;	
1004	Wastes from lead thermal metallurgy 铅热冶金废料	Hexachlorobenzene: 5 000 mg/kg; 六氯苯: 5 000 mg/kg;	
100401	Slags from primary and secondary production 一次和二次生产的炉渣	Hexachlorobutadiene: 1 000 mg/kg; 六氯丁二烯: 1 000 mg/kg;	
100402	Dross and skimmings from primary and secondary production 一次和二次生产产生的残渣和撇渣	Hexachlorocyclohexanes, including lindane: 5 000 mg/kg; 六氯环己烷, 包括林丹: 5 000 mg/kg;	
100404	Flue-gas dust 烟气粉尘	Mirex: 5 000 mg/kg; 灭蚁灵: 5 000 mg/kg;	

Wastes as classified in Decision 2000/532/EC 2000/532/EC规定的废弃物		Maximum concentration limits of substances listed in Annex IV 附件IV所列物质的最大含量	Operation 操作
100405	Other particulates and dust 其他微粒和粉尘	Pentachlorobenzene: 5 000 mg/kg; 五氯苯: 5 000 mg/kg; Perfluorooctane sulfonic acid and its derivatives (PFOS) (C ₈ F ₁₇ SO ₂ X) (X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers): 50 mg/kg; 全氟辛烷磺酸及其衍生物: 50 mg/kg; Polychlorinated Biphenyls (PCB): 50 mg/kg; 多氯联苯: 50 mg/kg; Polychlorinated dibenzo-p-dioxins and dibenzofurans and dioxin-like polychlorinated biphenyls (dl-PCBs): 5 mg/kg; 多氯二苯并对二噁英和呋喃以及类二噁英多氯联苯 (dl-PCBs) : 5 mg/kg; Polychlorinated naphthalenes: 1 000 mg/kg; 多氯化萘: 1 000 mg/kg; Sum of the concentrations of tetrabromodiphenyl ether (C ₁₂ H ₆ Br ₄ O), pentabromodiphenyl ether (C ₁₂ H ₅ Br ₅ O), hexabromodiphenyl ether (C ₁₂ H ₄ Br ₆ O), heptabromodiphenyl ether (C ₁₂ H ₃ Br ₇ O) and decabromodiphenyl ether (C ₁₂ Br ₁₀ O):	
100406	Solid wastes from gas treatment 气体处理产生的固体废物		
1005	Wastes from zinc thermal metallurgy 锌热冶金废料		
100503	Flue-gas dust 烟气粉尘		
100505	Solid waste from gas treatment 气体处理产生的固体废物		
1006	Wastes from copper thermal metallurgy 铜热冶金废料		
100603	Flue-gas dust 烟气粉尘		
100606	Solid wastes from gas treatment 气体处理产生的固体废物		
10 08	Wastes from other non-ferrous thermal metallurgy 其他有色冶金冶炼产生的废物		
100808	Salt slag from primary and secondary production 一、二级生产的盐渣		
100815	Flue-gas dust containing hazardous substances 含有有害物质的烟气粉尘		
1009	Wastes from casting of ferrous pieces		

Wastes as classified in Decision 2000/532/EC 2000/532/EC规定的废弃物		Maximum concentration limits of substances listed in Annex IV 附件IV所列物质的最大含量	Operation 操作
	黑色金属铸件产生的废物	10 000 mg/kg;	
100909	Flue-gas dust containing hazardous substances 含有有害物质的烟气粉尘	四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚总量: 10 000 mg/kg;	
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST 列表中没有其他废物	Toxaphene: 5 000 mg/kg;	
1611	Waste linings and refractories 废料衬里和耐火材料	毒杀芬: 5 000 mg/kg;	
161101	Carbon-based linings and refractories from metallurgical processes containing hazardous substances 冶金过程中含有有害物质的碳基衬里和耐火材料	Pentachlorophenol, its salts and esters: 1 000 mg/kg;	
161103	Other linings and refractories from metallurgical processes containing hazardous substances 冶金过程中含有有害物质的其他衬里和耐火材料	五氯苯酚及其盐类和酯类: 1 000 mg/kg;	
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) 建筑垃圾和拆迁废物 (包括污染场地中挖出的土壤)	Dicofol: 5 000 mg/kg; 三氯杀螨醇: 5 000 mg/kg;	
1701	Concrete, bricks, tiles and ceramics 混凝土, 砖, 瓦和陶瓷	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds: 50 mg/kg (PFOA and its salts), 2 000 mg/kg (PFOA-related compounds); 全氟辛酸 (PFOA)、其盐类和 PFOA 相关化合物: 50mg/kg (PFOA 及其盐类), 2 000mg/kg (PFOA 相关化合物);	
170106	Mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing hazardous substances 含有有害物质的混凝土, 砖, 瓦和陶瓷的混合物或单独的馏分	Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds: 50 mg/kg (PFHxS and its salts), 2 000 mg/kg (PFHxS-related compounds). 全氟己烷磺酸 (PFHxS)、其盐类和 PFHxS 相关化合物: 50mg/kg (PFHxS 及其盐), 2 000mg/kg (PFHxS 相关化合物)。	
1705	Soil (including excavated soil from contaminated sites),		

Wastes as classified in Decision 2000/532/EC 2000/532/EC规定的废弃物		Maximum concentration limits of substances listed in Annex IV 附件IV所列物质的最大含量	Operation 操作
	stones and dredging spoil 土壤（包括从受污染场地挖出的土壤），石头和挖泥		
170503	Soil and stones containing hazardous substances 含有有害物质的土壤和石头		
170504	Soil and stones other than those mentioned in 17 05 03 除170503以外的土壤和石头		
1709	Other construction and demolition wastes 其他建筑和拆除废物		
170902	Construction and demolition wastes containing PCB, excluding PCB containing equipment 含多氯联苯的建筑和拆除废物，但不包括含多氯联苯的设备		
170903	Other construction and demolition wastes (including mixed wastes) containing hazardous substances 其他含有有害物质的建筑和拆除废物（包括混合废物）		
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF- SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FROM INDUSTRIAL USE 来自废物管理设施，场外废水处理厂的废物以及用于人类消费 的水和工业用途水的制备		
1901	Wastes from incineration or pyrolysis of waste 废物焚烧或热解产生的废物		
190107	Solid wastes from gas treatment		

Wastes as classified in Decision 2000/532/EC 2000/532/EC规定的废弃物		Maximum concentration limits of substances listed in Annex IV 附件IV所列物质的最大含量	Operation 操作
	气体处理产生的固体废物		
190111	Bottom ash and slag containing hazardous substances 含有有害物质的底灰和矿渣		
190113	Fly ash containing hazardous substances 粉煤灰中含有有害物质		
190115	Boiler dust containing hazardous substances 锅炉粉尘中含有有害物质		
1904	Vitrified waste and waste from vitrification 玻璃化废料和玻璃化废料		
190402	Fly ash and other flue-gas treatment wastes 粉煤灰和其他烟气处理废物		
190403	Non-vitrified solid phase 非玻璃固相		
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS 城市废物（家庭废物和类似的商业、工业和机构废物），包括 单独收集的部分		
2001	Separately collected fractions (except 15 01) 单独收集的馏分（15 01除外）		
200141	Wastes from chimney sweeping 扫烟囱产生的废物		