

华勤技术股份有限公司

有害物质管控标准

1. 前言

华勤技术股份有限公司（下文简称：华勤技术）已制定有害物质内部管控标准及管理流程，对设计及制造的产品中含有的化学物质实行分级管控，在研发、采购、品质管理等流程落实，并积极与供应商、合作伙伴等利益相关方沟通协作，共同确保产品符合相关法律法规及用户要求，最大限度降低有害物质对人类健康和环境带来的风险。

本文规定了华勤技术关于禁止使用、限制使用及需申报的特定化合物/材料/物质在产品、组件及制造过程中的管控限值、适用范围及管理要求。

持续关注与主动行动：

本管控清单所列物质并非当前受关注化学物质的全部。华勤技术及其供应商有责任主动了解生产过程中使用的所有化学品，以及所供应的零部件、材料中含有的所有化学品对人类健康及环境的潜在影响。我们要求华勤技术自身及所有供应商，首先致力于减少或避免使用本清单所列的受关注化学物质，并严格遵守所有适用的法规要求。

更广泛的管理范畴：

除本清单明确管控的物质外，华勤技术还基于质量、安全、人权等综合考量（例如：冲突矿产、红磷等特定物质），对相关化学物质实施必要的管理。在特定情况下，华勤技术可能要求供应商提供额外的调查信息或符合性声明（例如：请求特定物质调查或签署规范声明）。

2. 适用范围及生效

本标准基于全球法律法规以及行业标准（如中国 RoHS 、欧盟 RoHS 指令和 REACH 法规等），并结合华勤客户的实际需求制定，适用于华勤集团及其子公司、制造工厂（含生产外包工厂）、供应商生产的所有材料、零部件、半成品、整机产品、售后备件与售后备件包装，包括但不限于电子料、结构料、包装材料、生产用副资材、夹治具等。

华勤技术有责任确保其产品（零部件、最终产品、包装等）中使用的所有材料以及在制造华勤技术产品过程中所使用的各类材料，均符合相关环境法规及本标准的要求。

本标准自 2025 年 7 月 14 日起正式生效执行。

3. 术语、定义

- 3.1 均质材料：无法再机械方法（切割，粉碎，研磨）拆分的材料，例如金属、塑料、陶瓷、焊料、胶、镀层。
- 3.2 HS: Hazardous Substance 有害物质，包括但不限于公司文件《有害物质管制标准》中列出的有害物质。
- 3.3 HSF: Hazardous substances free, 不含有害物质或有害物质减免。
- 3.4 ppm: 为百万分之一，本标准涉及的物质含量均是通过零部件所含物质的重量与其本身重量之比换算为 ppm 值来代表。
- 3.5 MSDS: Material Safety Data Sheet 物料安全数据表。
- 3.6 测试报告：对物料或材料进行环保测试后得到的《环保测试报告》，此报告应由符合资质条件（通过 ISO/IEC17025）的检测机构或实验室出具。
- 3.7 长期接触人体皮肤的部件或材料：在正常使用场景下接触人体皮肤大于 30s 的部件或材料。
- 3.8 HQ Policy: 华勤加严管控限值，当超过管控限值时，以具体项目有害物质管控规格书中标准为判断依据。
- 3.9 申报使用：法规规定或华勤定义的需要申报的物质，供应商合作伙伴在使用前需通知华勤端申报使用。
- 3.10 限用物质：禁止存在或存在但含量必须在规定的最大限值之下的物质。
- 3.11 ND 且不得有意添加：Not Detected, 未检测到，即小于实验室的方法检测限且不得有意添加某种物质以实现某种特定的功能。
- 3.12 禁止使用：不得有意或无意添加物质，也不得使用当前或指定的分析方法检出（即检测值不得高于检出限）。

3.13 项目环保属性定义：

项目环保属性	适用项目	指令法规	备注
I 级（无卤 欧盟环保）	无卤要求的客户项目（欧盟、美洲，韩国或者全球发货项目）	须满足 HF（无卤）+欧盟 RoHS2.0+ REACH + 电池指令+包装指令+WEEE 法规指令+POPs 公约等（详见章节 3.管制标准）	须满足 ABC 类物质要求
II 级（欧盟 环保）	无无卤要求的客户项目（欧盟、美洲，韩国或者全球发货项目）	须满足欧盟 RoHS2.0+ REACH + 电池指令+包装指令+WEEE 法规指令+POPs 公约等（详见章节 3.管制标准）	须满足 AB 类物质要求
III 级（欧盟 环保）	无无卤要求的数据业务客户项目（欧盟、美洲，韩国或者全球发货项目）	须满足欧盟 RoHS 2.0 + REACH 电池指令+包装指令+WEEE 法规指令 +POPs 公约等（详见章节 3.管制标准）	须满足 A 类物质要求

4. 管制标准

4.1 限用物质清单

A 类物质：全球法规管控的禁用、限用、申报物质（豁免条款见附录）

序号	物质名称	CAS 号	限值/ppm	适用范围	参考法规	合规性依据
1	铅及其化合物 (Pb)	7439-92-1 等	40	电池单元和电池组	[EU] Battery Regulations 2023/1542; [China] Content limitation of mercury, cadmium and lead for zinc anode primary battery GB24427-2021	MSDS 测试报告
			50	塑料、涂层、胶水、线缆、皮革、耳塞、手机外壳、显示器（包括外壳、线路和印刷电路板）	IEEE 1680.1-2018; [USA] Consumer Product Safety Improvement Act (CPSIA) of 2008 PUBLIC LAW 110-314; [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65); [Korea (the Republic of)] Electrical Appliances and Consumer Products Safety Control Act; [USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB575	
			1	天然纤维和合成纤维、纺织品、皮革、穿戴产品和配件	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	
			100(Pb+Cd+Hg+ Cr6+)	包装材料	[EU] Packaging Directive 94/62/EC	
			1000	其它不在 RoHS 豁免范围内的所有材料	[EU] RoHS Directive 2011/65/EU; [China] GB/T 26572; Taiwan BSMI RoHS	
2	镉及其化合物 (Cd)	7440-43-9 等	10	电池单元和电池组	IEEE 1680.1-2018; [EU] Battery Regulations 2023/1542; [Korea (the Republic of)] Quality Management and Manufactured Product Safety Management Law (Battery Regulation); [Korea (the Republic of)] Consumer Protection Law	
			1	天然纤维和合成纤维、纺织品、皮革、穿戴产品和配件	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	
			100(Pb+Cd+Hg+ Cr6+)	包装材料	[EU] Packaging Directive 94/62/EC	
			50	其它所有材料	[EU] RoHS Directive 2011/65/EU; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [China] GB/T 26572; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; Taiwan BSMI RoHS; [USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB575; [Korea (the Republic of)] Electrical Appliances and Consumer Products Safety Control Act	

3	汞及其化合物(Hg)	7439-97-6 等	ND 且不得有意添加	所有电池	[EU] Battery Regulations 2023/1542; [Canada] Products containing Mercury Regulations SOR/2014-254; [China] Content limitation of mercury, cadmium and lead for zinc anode primary battery GB24427-2021; [Taiwan (Province of China)] Restrictions on the Manufacture, Import, and Sale of Dry Cell Batteries; [Korea (the Republic of)] Quality Management and Manufactured Product Safety Management Law (Battery Regulation); [USA New York] Environmental Conservation Law, Battery management and disposal § 27-0719; US Public Law 104-142
			ND 且不得有意添加	开关和继电器	The Minamata Convention on Mercury (EU)2017/852
			100(Pb+Cd+Hg+Cr ⁶⁺)	包装材料	[EU] Packaging Directive 94/62/EC
			1000	其它所有材料	IEEE 1680-1; [China] GB/T 26572; [EU] RoHS Directive 2011/65/EU and its Amendments; [USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB575 Taiwan BSMI RoHS
4	六价铬化合物 (Cr ⁶⁺)	18540-29-9 等	1	天然纤维和合成纤维、纺织品、穿戴产品和配件	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			3	皮革	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; Taiwan BSMI RoHS
			ND	金属镀层	[China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products;
			100	屏幕尺寸大于 4 英寸的视频显示设备	[USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB575
			100(Pb+Cd+Hg+Cr ⁶⁺)	包装材料	[EU] Packaging Directive 94/62/EC
			500	其它所有材料	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [China] GB/T 26572; Taiwan BSMI RoHS
5	多溴联苯 (PBBs)(除六溴联苯外)	59536-65-1 等	1000	所有材料	[EU] RoHS Directive 2011/65/EU; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources
6	六溴联苯	36355-01-8	1000	所有材料	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021

7	多溴二苯醚 (PBDEs)	1163-19-5 等	500ppm (总和)	所有材料	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021; [EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [USA] Toxic Substances Control Act (TSCA); 澳大利亚工业化学品环境管理标准 (ICHEMS)	
8	邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	1000ppm (DEHP、BBP、DBP、DIBP 总和)	所有材料	[EU] RoHS Directive 2011/65/EU; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Consumer Product Safety Improvement Act (CPSIA) of 2008 PUBLIC LAW 110-314; [Korea (the Republic of)] Electrical Appliances and Consumer Products Safety Control Act	
9	邻苯二甲酸二丁酯 (DBP)	84-74-2				
10	邻苯二甲酸丁酯苯甲酯 (BBP)	85-68-7				
11	邻苯二甲酸二异丁酯 (DIBP)	84-69-5				
12	邻苯二甲酸酯 (除 DEHP/D BP/BBP/DIBP 外)	见附录 1	100ppm (总和)	包装材料	TPCH	MSDS 测试报告
			1000ppm (总和)	所有材料	[USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65); [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; 2011/65/EU	
		28553-12-0 68515-49-1 26761-40-0 117-84-0	1000ppm (DINP、DIDP、DNOP 总和)	可入口的儿童玩具及零件	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Consumer Product Safety Improvement Act (CPSIA) of 2008 PUBLIC LAW 110-314	
13	有机锡化合物	见附录 6	总和 1000ppm (以 Sn 计)	所有材料	[EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS 测试报告
14	砷及其化合物	7440-38-2	1	服装和相关配件、皮革、纺织品纤维、木制品	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	MSDS
		五氧化二砷/ 三氧化二砷 1303-28-2 1327-53-3	1000	LCD 面板玻璃 (包括盖玻片、触摸屏和背光) 部件中	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XIV	MSDS 测试报告
15	镍	7440-02-0	0.5µg/cm ² /week	与皮肤直接及长期接触部位的金属外观件, 如中框, 卡托, 按键, 摄像头装饰件	[EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS 测试报告
16	石棉纤维	1332-21-4 12001-28-4 12001-29-5 12172-73-5 77536-66-4 77536-67-5 77536-68-6 132207-32-0	ND 且不得有意添加	所有材料	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XIV	MSDS

17	六溴环十二烷 Hexabromocyclododecane (HBCDD)	3194-55-6 25637-99-4 134237-50-6 134237-52-8 134237-51-7	75	所有材料	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [EU] Draft Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021	测试报告 MSDS
18	短链氯化石蜡 (SCCP)	85535-84-8 等	1000	所有材料	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021;	测试报告 MSDS
19	苯	71-43-2	ND 且不得有意添加	油墨	GB 38507-2020	MSDS
20	多氯联苯 (PCBs)	1336-36-3 等 见附录 21	ND (检测限<0.1ppm) 且不得有意添加	所有材料	85/467/EEC CRS 001/1983, Brazil [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021; [USA] Toxic Substances Control Act (TSCA); [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; Asahi requirement	MSDS
21	多氯三联苯及其衍生物 (PCTs)	61788-33-8	ND 且不得有意添加	所有材料	[Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS
22	多氯化萘 (PCNs)	70776-03-3 1321-64-8 1335-87-1 1335-88-2 32241-08-0	ND 且不得有意添加	所有材料	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021; [Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	MSDS
23	偶氮染料和偶氮着色剂、芳胺、苯胺	见附录 4	30	与皮肤或口腔直接或长期接触的纺织品或皮革制品	[EU] REACH Regulation (EC)1907/2006 Annex XVII; [China] GB 18401-2010; [China] GB 20400-2006	MSDS
			1000	纺织品或皮革染色物		
24	致癌及致过敏染料	见附录 11	ND 且不得有意添加	纺织品、皮革产品	OEKO-TEX Standard 100	测试报告、MSDS
				手机保护壳等长期接触的人体皮肤部件		
25	烷基酚化合物	1319-77-3 95-48-7 108-39-4 106-44-5 88-69-7	10	所有材料	Canadian Environmental Protection Act, 1999	MSDS
26	多环芳烃 (PAHs)	见附录 10	单个物质 (BaP;BeP;BaA;BbFA;BjFA;BkFA;CHR;DBA;A;Benzo[g,h,i]perylene;Indeno[1,2,3-cd]pyrene)<0.2ppm; 18 种 PAHs 总量<1 ppm	类别 1: 可放入口中的材料, 或预期和皮肤长时间接触的玩具材料 (超过 30 秒) 儿童产品且与皮肤长时间接触 (超过 30 秒) 的材料	[EU] REACH Regulation (EC)1907/2006 Annex XVII; AIPS-GS-2014-01-PAK-EN;	测试报告、MSDS 备注: 与皮肤接触的非金属外观

			单个物质 (BaP;BeP;BaA;BbFA;BjFA;BkFA;CHR;DBAh A;Benzo[g,h,i]perylene;Indeno[1,2,3- cd]pyrene)<0.5ppm; Naphthalene<2 ppm; 18 种 PAHs 总量<10 ppm。 供儿童 (<14 岁) 使用的产品 (包括主动和 被动直接接触) 单个物质 (BaP;BeP;BaA;BbFA;BjFA;BkFA;CHR;DBAh A;Benzo[g,h,i]perylene;Indeno[1,2,3- cd]pyrene)<0.2ppm; Naphthalene<2 ppm; 18 种 PAHs 总量<5 ppm。 单个物质 (BaP;BeP;BaA;BbFA;BjFA;BkFA;CHR;DBAh A;Benzo[g,h,i]perylene;Indeno[1,2,3- cd]pyrene)<1ppm; Naphthalene<10 ppm; 18 种 PAHs 总量<50 ppm 供儿童 (<14 岁) 使用的产品 (包括主动和 被动直接接触) 单个物质 (BaP;BeP;BaA;BbFA;BjFA;BkFA;CHR;DBAh A;Benzo[g,h,i]perylene;Indeno[1,2,3- cd]pyrene)<0.5ppm; Naphthalene<10ppm; 18 种 PAHs 总量<20 ppm。	类别 2: 未包含在类别 1 中, 与皮肤接触时间 预期会超过 30 秒的材料或者反复短时间 与皮肤接触的材料 类别 3: 未包含在类别 1 和 2 中, 预期和皮 肤接触时间不超过 30 秒 (短时间接触) 的 材料	十环认证要求	件按 GS 法规严 格管控, 送成品 到第三方, 让第 三方从成品上刮 取样品测试 (GS 法规上规定涂层 重量如果小于 50mg, 可与基材 一起测试)
27	双酚 A (BPA)	80-05-7	200 迁移量≤ 0.04mg/L 300 ND 且不得有意添加 1000	热敏纸 儿童玩具 皮肤接触产品 食品接触产品 所有其他材料	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65); France Food contact EU Food Contact Material; EU Toy WA CSPA	MSDS
28	PIP (3:1) 异丙基化 磷酸三苯 酯	68937-41-7	ND 且不得有意添加	所有材料	[USA] Toxic Substances Control Act (TSCA)	MSDS
29	2,4,6 三- 叔丁基苯 酚(2,4,6- TTBP)	732-26-3	1000	所有材料	[USA] Toxic Substances Control Act (TSCA); [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation	MSDS
30	五氯硫酚 (PCTP)	133-49-3	10000	所有材料	[USA] Toxic Substances Control Act (TSCA)	MSDS
31	六氯丁二 烯 (HCBD)	87-68-3	ND 且不得有意添加	所有材料	[USA] Toxic Substances Control Act (TSCA)	MSDS
32	放射性物 质	7440-61-1 10043-92-2 14596-10-2 7440-29-1 10045-97-3 10098-97-2 7440-35-9 7440-46-2 7440-07-5 7440-24-6 7440-29-1	ND 且不得有意添加	所有材料	日本化审法; EU Directive 2013/59/EURATOM	MSDS
33	臭氧层破 坏物质 (CFC, Halon, HBFC, HCFC & others)和 含氟温室 气体 (PFC, SF6, HFC)	见附录 18	禁止使用	所有材料	中华人民共和国国家环 境保护标准与蒙特利尔 议定书 [EU] REGULATION No 517/2014 on fluorinated greenhouse gases; [EU] Regulation on substances that deplete the ozone layer (EC) No. 1005/2009; [Japan] Law concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures; [USA] Clean Air Act; (Treaty) Montreal Protocol on Substances that Deplete the Ozone Layer [USA] Internal Revenue Code Title 26	MSDS

34	杀虫剂 (毒杀芬 灭蚁灵 DDT\硫 丹等)	8001-35-2 2385-85-5 309-00-2 76-44-8 72-20-8 60-57-1 50-29-3 57-74-9 58-89-9 319-84-6 319-85-7 608-73-1 143-50-0 115-29-7 959-98-8 33213-65-9	ND 且不得有意添加	包装、运输材料	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021	MSDS
35	甲醛	50-00-0	75 ppm	纺织品、皮革产品	[Austria] BGB I 1990/194: Formaldehyde Restriction § 2,12/2/1990 [Lithuania] Hygiene Norm HN 96:2000 (Hygiene Norms and Regulations) [EU] REACH Regulation (EC)1907/2006 Annex XVII	测试报告、MSDS
			0.1	天然纤维、合成纤维	[USA] Toxic Substances Control Act (TSCA)	
			0.05ppm (0.062 ml/m ³)	家具、木制品、粘着剂、车载产品	[EU] REACH Regulation (EC)1907/2006 Annex XVII; Japanese law 112 ChemVerbotsV [China] GB 18401; [China] GB 20400; [China] GB/T 39600; [China] GB 18580; [China] GB 24311; US CARB ASTM	
			0.080mg/m ³	其它制品	[EU] REACH Regulation (EC)1907/2006 Annex XVII	
36	高氯酸; 高氯酸盐 化合物; 高氯酸 锂;	7601-90-3 14797-73-0 7791-03-9 7790-98-9 10034-81-8 7778-74-7 7601-89-0	0.1 (总和)	所有材料	[USA California] Perchlorate Contamination Prevention Act of 2003 AB 826	MSDS
			6ppb	所有材料		
37	UV328; 2-(2'-羟基 -3',5'-二 叔戊基苯 基)苯并 三唑	25973-55-1	ND 且不得有意添加	所有材料	日本化审法要求 Eighteenth meeting of the Persistent Organic Pollutants Review Committee (POPRC.18)	MSDS
38	Dechloran A 得克隆	13560-89-9 135821-03-3 135821-74-8	ND 且不得有意添加	所有材料	Eighteenth meeting of the Persistent Organic Pollutants Review Committee (POPRC.18), [Canada] Proposed Prohibition of Certain Toxic Substances Regulations, 2022	MSDS
39	芳香烃矿 物油	见附录 20	1~7 个芳香环的芳香烃矿物油中<1000ppm 3~7 个芳香环的芳香烃矿物油中<1ppm	包装材料油墨	法国政府 2020-105 号 法令《循环经济》	测试报告
40	饱和烷烃 矿物油	见附录 20	16~35 个碳原子的饱和烃矿物油中<1000ppm	包装材料油墨	法国政府 2020-105 号 法令《循环经济》	测试报告
41	持久性有 机污染物	见附录 22	ND 且不得有意添加	所有材料	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021	测试报告、MSDS
42	卤系阻燃 剂	--	F+Cl+Br+I<1000ppm	电子显示器的塑料外壳和支架, 包括屏幕面积大于 100 平方厘米的电视、显示器和数字标牌显示器, 以及附在塑料外壳和架上的标签、胶带等; 游戏设备的塑胶壳中;	[EU] Commission Regulation (EU) 2019/2021 laying down ecodesign requirements for electronic displays; [USA] State of New York: Regulation of Chemicals in Upholstered Furniture, Mattresses and Electronic Enclosures [EU] Energy Efficiency of Games Consoles Self Regulatory Initiative to further improve the energy efficiency of Games Consoles	测试报告、MSDS

43	全氟及多氟烷基化合物 (PFAS)	--	ND 且不得有意添加	包装材料	TPCH;	MSDS
			含有需对物质及其应用进行技术调查	其他所有材料	[USA] State of Maine: An Act to Stop Perfluoroalkyl and Polyfluoroalkyl Substances Pollution	MSDS
44	全氟辛酸磺酸 (PFOS) 及其衍生物	见附录 7	1ug/cm ²	皮革、纺织品、涂层	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021 [Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. [EU] Draft Persistent Organic Pollutants	MSDS 测试报告
			PFOS 及其盐≤25ppb 其它 PFOS 相关物质≤1ppm	所有材料	澳大利亚工业化学品环境管理标准 (ICHEMS) 2027 年 7 月 1 日进行审查 EU 2019/1021 (POPs)	MSDS 测试报告
45	全氟辛酸 (PFOA) 及其盐类和全氟辛酸相关化合物	见附录 8	1ug/cm ²	皮革、纺织品、涂层	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021 Norway FOR-2004-06-01-922 oecd.org/officialdocuments/publicdisplaydocumentpdf/?doclanguage=en&otc=en/v/jm/mono(2006)15	MSDS 测试报告
			PFOA 及其盐≤25ppb 其它 PFOA 相关物质≤1ppm	所有材料		
46	全氟羧酸 (PFCAs; C9-C14) 及其盐类和物质	见附录 24	C9-C14 PFCAs 及其盐≤25ppb 其它 C9-C14 PFCAs 及相关物≤260ppb	所有材料	[EU] REACH Regulation (EC) No.2021/1297 ANNEX XVII; echa.europa.eu/document/s/10162/2ec5dfdd-0e63-0b49-d756-4dc1bae7ec61	MSDS 测试报告
47	长链全氟羧酸, 其盐类及其前驱体 (LCPFCAs)	见附录 5	ND 且不得有意添加	所有材料	[Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [EU] REACH Regulation (EC) No.2021/1297 ANNEX XVII; [Switzerland] Swiss ORRChem	MSDS
48	全氟己酸 (PFHxA) 及其盐类和物质	见附录 25	PFHxA 及其盐≤25ppb PFHxA 及其相关物≤1000ppb	所有材料	REACH 限制篇拟增加物质	MSDS 测试报告
49	全氟己烷磺酸盐 (PFHxS) 及其盐类和物质	见附录 26	PFHxS 及其盐≤25ppb PFHxS 及其相关物≤1000ppb	所有材料	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021 法规正式限值物质和限制篇拟增加物质	MSDS 测试报告
50	全氟丁烷磺酸盐 (PFBS) 及其盐类和物质	见附录 23	总和≤1000ppm (超出需提供调查申明)	所有材料	www.miljodirektoratet.no/globalassets/publikasjoner/M759/M759.pdf	MSDS 测试报告
51	冲突金属 ((金 (Au)、钽 (Ta)、锡 (Sn) 和钨 (W))	7440-57-5(金) 7440-25-7(钽) 7440-31-5(锡) 7440-33-7(钨)	禁止使用来自刚果的矿场	所有材料	美国冲突金属法律	冲突矿产调查表

欧盟 RoHS 2.0: <https://eur-lex.europa.eu/eli/dir/2011/65/oj>

REACH 限制物质: <https://echa.europa.eu/substances-restricted-under-reach>

电池指令: <https://eur-lex.europa.eu/eli/dir/2006/66/oj>

包装指令: <https://eur-lex.europa.eu/eli/dir/1994/62/oj>

加州 65 清单物质: <https://oehha.ca.gov/proposition-65/proposition-65-list>

CPSIA: <https://www.cpsc.gov/Regulations-Laws--Standards/Statutes/The-Consumer-Product-Safety-Improvement-Act>

REACH SVHC 物质: <https://echa.europa.eu/candidate-list-table>

REACH 授权物质: <https://eur-lex.europa.eu/eli/reg/2020/171/oj>

POPs: <https://eur-lex.europa.eu/eli/reg/2019/1021/oj>

VOCs: <http://openstd.samr.gov.cn/bzgk/gb/newGbInfo?hcno=24B8F23569AAABB041D0F93A39F6519D>

<http://openstd.samr.gov.cn/bzgk/gb/newGbInfo?hcno=A203979981132906583AA272F71CD9B1>

<http://openstd.samr.gov.cn/bzgk/gb/newGbInfo?hcno=FE1FC015A8AC8E87F74085C3ADE06C3E>

<http://openstd.samr.gov.cn/bzgk/gb/newGbInfo?hcno=BEC525CEF58A6B3D25D125E166BDD515>

TSCA: <https://www.epa.gov/laws-regulations/summary-toxic-substances-control-act>

IEC62474(EPEAT)申报物质清单: <https://std.iec.ch/iec62474/iec62474.nsf/Index?open&q=044904>

华盛顿州化学品清单高度关注儿童(CHCC): <http://apps.leg.wa.gov/WAC/default.aspx?cite=173-334->

130

B 类物质: 客户特殊管控物质 (行业标准、法规加严物质、穿戴类管控物质)

序号	物质名称	CAS 号	限值/ppm	适用范围	参考法规	合规性依据
1	铅及其化合物 (Pb)	--	80(Pb+Cd+Hg+ Cr ⁶⁺)	包装	HQ Policy	测试报告、MSDS
			ND 且不得有意添加	硫酸铅(CAS NO 7446-14-2)、小型密封铅酸电池		
			1000 (超出需申报使用)	铜螺母		
			2	大于 25 克塑胶件 (适用于台湾绿色产品)		
			500	与皮肤接触/长时间接触的产品中使用的零件		
			800	所有材料 (上述类别以外)		
2	镉及其化合物 (Cd)	--	80(Pb+Cd+Hg+ Cr ⁶⁺)	包装	HQ Policy	测试报告、MSDS
			20	接合焊锡		
			5	塑料、油墨等有机物		
			50	金属等无机物		
			10	大于 25 克塑胶件 (台湾绿色产品适用)		
			1	直接或长时间接触皮肤的零部件或材料		
3	汞及其化合物 (Hg)	--	80(Pb+Cd+Hg+ Cr ⁶⁺)	包装	HQ Policy	测试报告、MSDS
			10	表面涂层		
			0.02	纺织品 (长期接触人体)		
			10	大于 25 克塑胶件 (台湾绿色产品适用)		
			3mg/lamp	CCFL 背光模组		
			500	所有材料 (上述类别以外)		
4	六价铬化合物 (Cr ⁶⁺)	--	80(Pb+Cd+Hg+Cr ⁶⁺)	包装	HQ Policy	测试报告、MSDS
			ND 且不得有意添加	皮革、纺织、金属镀层、饰面和涂层、涂料和树脂		
			0.5	聚合物 (合成皮革、橡胶、塑胶、硅)		
			1	电池、直接或长时间接触皮肤的零部件或材料		
			10	大于 25 克塑胶件 (台湾绿色产品适用)		
			500	所有材料 (上述类别以外)、EPEAT 要求		
5	多溴联苯 (PBBs)	59536-65-1 等	ND 且不得有意添加	所有材料	HQ Policy	测试报告、MSDS
6	多溴联苯醚 (PBDEs)	1163-19-5 等	10	儿童产品、大于 25g 塑料件	HQ Policy	测试报告、MSDS
			ND 且不得有意添加	皮革、纺织品、EPS、HISP、XPS		
			500	包装材料、消费后塑料原料和消费后塑料树脂		
			单个多溴二苯醚<10ppm 多溴二苯醚总和<500ppm	所有材料 (上述类别以外)		
7	多溴联苯氧化物(PBBOs)	--	1000	所有材料	HQ Policy	MSDS
8	邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	800ppm (单个)	所有材料	HQ Policy	测试报告、MSDS
9	邻苯二甲酸二丁酯(DBP)	84-74-2				测试报告、MSDS
10	邻苯二甲酸丁酯苯甲酯(BBP)	85-68-7				测试报告、MSDS
11	邻苯二甲酸二异丁酯(DIBP)	84-69-5				测试报告、MSDS
12	邻苯二甲酸酯	见附录 1	ND 且不得有意添加	所有材料 (除金属、陶瓷材料外)	Regulation (EU) 1907/2006;	测试报告、MSDS
		DIHP	1mg/L	与皮肤接触的纤维, 纤维包括天然和合成纤维	HQ Policy	

		DIDP、DINP	ND 且不得有意添加	显示器、笔记本电脑		
13	氯化石蜡 短链和中链 (SCCPs&MC CPs)	85535-84-8 等	ND 且不得有意添加	所有材料	HQ Policy	MSDS
14	有机锡化合物	见附录 6	ND 且不得有意添加	所有材料	HQ Policy	MSDS
15	聚氯乙烯 PVC 及其化 合物	93050-82-9 9002-86-2 9002-85-1 81517-61-5	禁止使用	所有材料	HQ Policy	MSDS
16	氯系阻燃剂 CFRs	--	不得有意添加	所有材料	HQ Policy	MSDS
17	溴系阻燃剂 BFRs	见附录 2	禁止使用	所有材料	HQ Policy	MSDS
18	卤素(氟、氯 和溴)	--	Cl/Br 小于 1000ppm	大于 25g 塑件(豁免有卤的线材、笔电产品主副板) (仅适用于笔电 EPEAT 项目)	HQ Policy	测试报 告、MSDS
19	卤系有机化 合物	--	900	塑胶包装(仅适用笔电项目)	HQ Policy	MSDS
20	含氟化合物	--	需对物质及其应用进行技术 调查并申报使用	所有材料	HQ Policy	测试报告
21	氯漂白剂	--	禁止使用	包装材料	HQ Policy	MSDS
22	卤化二苯基 甲烷	76253-60-6 81161-70-8 99688-47-8	ND 且不得有意添加	所有材料	HQ Policy	MSDS
23	六氯乙烷	67-72-1	ND 且不得有意添加	所有材料	HQ Policy	MSDS
24	偶氮染料-芳 香胺和苯胺 类化合物	见附录 4	20ppm(总和)	所有材料	HQ Policy	测试报 告、 MSDS
			ND 且不得有意添加	皮肤长期接触物料	HQ Policy	
25	碳酸铅/硫酸 铅	--	ND 且不得有意添加	所有材料	HQ Policy	MSDS
26	双酚 B	77-40-7	1000	所有材料	REACH 1907/2006 SVHC	MSDS
27	四溴双酚 A (TBBA, TBBPA)	79-94-7	ND 且不得有意添加	所有材料	HQ Policy	测试报 告、 MSDS
28	双酚 A(BPA)	80-05-7	ND 且不得有意添加	热敏纸 频繁处理的电缆和频繁处理的零件和产品,例如鼠 标、鼠标垫和键盘,适用于皮肤暴露水平等于或高于 3 微克/天(仅适用笔电产品)	HQ Policy	测试报 告、 MSDS
			3 ug/day	与皮肤长期接触的零件和产品,例如线材、鼠标、鼠 标垫、键盘和壳料(仅适用笔电产品)		
			迁移量≤0.04mg/L	长时间接触人体(包含可穿戴与非可穿戴)产品材料		
29	其它双酚类 (双酚 F、双 酚 S)	80-05-7 620-92-8 2467-02-9 1333-16-0 80-09-1	20	长时间接触人体(包含可穿戴与非可穿戴)产品材料	HQ Policy	MSDS
			200	热敏纸		
30	六溴环十二 烷(HBCDD)	3194-55-6 25637-99-4 134237-50-6 134237-52-8 134237-51-7	ND 且不得有意添加	所有材料	HQ Policy	测试报 告、 MSDS
31	发泡聚苯乙 烯	9003-53-6	ND 且不得有意添加	包装吸塑	HQ Policy	MSDS
32	发泡聚乙烯	9002-88-4	ND 且不得有意添加	澳大利亚包材、包装吸塑	HQ Policy	MSDS
33	聚氨酯 polyurethane	51852-81-4	ND 且不得有意添加	包装材料	HQ Policy	MSDS
34	溴化聚苯乙 烯	88497-56-7	ND 且不得有意添加	包装吸塑	HQ Policy	MSDS
35	磷化氢	7803-51-2	0.08	电缆、电线	HQ Policy	MSDS
36	三氯苯 (TCB)	120-82-1	1000	所有材料	HQ Policy	MSDS
37	四氯苯 (TeCB)	634-90-2	ND 且不得有意添加	所有材料	HQ Policy	MSDS
38	三氯沙	3380-34-5	10	所有材料	HQ Policy	MSDS
39	镍及其化合 物	7440-02-0	释出率 0.28 µg/cm ² / week	与用户皮肤直接及长时间接触的部件,如手机外壳、 按键(不含穿戴类产品)	HQ Policy	测试报 告、MSDS 注:送成 品做 Ni 释 放量测 试,送阳 极氧化封 孔剂做 Ni 含量测试
			释出率 0.2 µg/cm ² / week	与用户皮肤直接及长时间接触的部件(可穿戴类产品)		
			ND 且不得有意添加	阳极氧化液,如使用阳极氧化工艺的外观件,需要为 无 Ni 工艺,全部材料的表面(与皮肤接触)		
			1000ppm/申报使用	其它所有材料	HQ Policy	MSDS
40	铈(Sb)及其化 合物	7440-36-0 1309-64-4 1345-04-6 10025-91-9	迁移量<30	所有材料	HQ Policy	MSDS
			500			

		15432-85-6 1314-60-9 7647-18-9 7789-61-9 1315-04-4 1327-33-9 1332-81-6 7783-56-4 1312-41-0	ND 且不得有意添加	包材		
41	砷(As)及其化合物	7440-38-2 1303-28-2 1327-53-3 等	ND 且不得有意添加 豁免 1000 50	可穿戴产品的皮肤接触部件、聚合物 半导体基板和掺杂剂 金属合金 其它所有材料	HQ Policy	MSDS
42	钴及其化合物（除氯化钴外）	7440-48-4 等	需对物质及其应用进行技术调查并申报使用 1ppm（可浸出）	所有材料 与皮肤接触/长时间接触的产品中使用的零件	HQ Policy	MSDS
43	二氧化钴	7646-79-9	1000ppm(Co 含量) ND 且不得有意添加	所有材料 硅胶、湿度指示剂、包材	HQ Policy	MSDS
44	红磷	7723-14-0	ND 且不得有意添加	所有材料	HQ Policy	MSDS
	磷	-	ND 且不得有意添加	金属外壳的前处理工艺不得使用磷的脱脂剂和皮膜液		
45	富马酸二甲酯（DMF）	624-49-7	ND 且不得有意添加	所有材料	HQ Policy	MSDS
46	二甲苯麝香	81-15-2	ND 且不得有意添加	所有材料	HQ Policy	MSDS
47	壬基酚 壬基酚聚氧 乙烯醚 4-正壬基酚、	25154-52-3 9016-45-9 104-40-5 20427-84-3 26027-38-3 27177-05-5 27177-08-8 27986-36-3 7311-27-5 9016-45-9 27176-93-8 51938-25-1 37205-87-1 26571-11-9	100 ND 且不得有意添加	皮革、纺织品 其它所有材料	HQ Policy	MSDS
48	橡胶防老剂 N-isopropyl-N'-phenylenediamine(IPPDP)	101-72-4	ND 且不得有意添加	所有材料	HQ Policy	MSDS
49	纳米物质	--	需对物质及其应用进行技术调查并申报使用 小于 0.1%	所有材料	HQ Policy	MSDS
50	联苯胺与联苯胺二盐酸盐	92-87-5 531-85-1	ND 且不得有意添加	所有材料	HQ Policy	MSDS
51	硼酸及其盐 五水四硼酸钠/ 无水四硼酸钠 十水四硼酸钠 (硼砂)/七水合四 硼酸钠	10043-35-3 11113-50-1 1303-96-4 1330-43-4 12179-04-3 12267-73-1 etc	ND 且不得有意添加	所有材料（例如在薄木板/压木板淀粉、添加剂、阻燃剂和稳定剂氨基塑料树脂、木材防腐剂）	HQ Policy	MSDS
52	三氧化二硼	1303-86-2	ND 且不得有意添加	所有材料（用作硅酸盐分解时的助熔剂，半导体材料的掺杂剂，耐热玻璃器皿和油漆耐火添加剂等所有工业应用）	HQ Policy	MSDS
53	N,N-二甲基甲酰胺	68-12-2	ND 且不得有意添加	所有材料	HQ Policy	MSDS
54	4-(1,1,3,3-四甲基丁基)苯酚	140-66-9	ND 且不得有意添加	表面活性剂、添加剂、粘合剂，制造油性溶剂苯酚醛树脂、油墨固着剂合	HQ Policy	MSDS
55	氘代双(2-甲氧基乙基)醚;二甘醇二甲醚	111-96-6	ND 且不得有意添加	所有材料	HQ Policy	MSDS
56	三甘醇二甲醚	112-49-2	ND 且不得有意添加	所有材料	HQ Policy	MSDS
57	乙二醇二甲醚（EGDME）	110-71-4	ND 且不得有意添加	所有材料（主要用作溶剂和有机合成中间体，用于聚合物化学、电化学、硼化学工艺领域，还用作树脂、硝化纤维素等的溶剂）	HQ Policy	MSDS
58	乙二醇二乙醚	629-14-1	ND 且不得有意添加	所有材料（用作硝化纤维素、橡胶、树脂等的溶剂以及有机合成的反应介质）	HQ Policy	MSDS
59	邻苯二甲酸戊基异戊酯	84777-06-0	ND 且不得有意添加	所有材料	HQ Policy	MSDS
60	硫	7704-34-9	1,000	橡胶材料	HQ Policy	MSDS
61	五氯苯酚（PCP）及其盐类和酯类	87-86-5 等	ND 且不得有意添加	所有材料	HQ Policy	MSDS

62	含氯苯酚 (不含五氯苯酚)	25167-82-2 25167-83-3 15950-66-0 933-78-8 933-75-5 88-06-2 935-95-5 58-90-2 4901-51-3 609-19-8 95-95-4 106-48-9 95-95-4 15950-66-0 933-78-8 609-19-8 933-75-5 88-06-2 935-95-5 58-90-2 4901-51-3	0.1	与皮肤接触材料（可穿戴类产品）	HQ Policy	MSDS
63	4-叔丁基苯酚	98-54-4	ND 且不得有意添加	穿戴产品皮肤接触部件	HQ Policy	MSDS
64	苯酚 （Phenol）	108-95-2	5mg/L	穿戴产品皮肤接触部件聚合物	HQ Policy	MSDS
65	喹啉	91-22-5	ND 且不得有意添加	所有材料	HQ Policy	MSDS
66	其他的芳基胺	--	30	与皮肤接触纺织品		
67	溶剂残留	--	3000			
68	长链型氯化 烷烃（C18 及 以上,LCCP）	--	大于 1000ppm 需对物质及其 应用进行技术调查并申报使用	所有材料	HQ Policy	MSDS
69	酮麝香	541-91-3	大于 500ppm 需对物质及其 应用进行技术调查并申报使用	所有材料	HQ Policy	MSDS
70	添加型磷系 阻燃剂	见附录 14	超出 1000ppm 需对物质及其 应用进行技术调查并申报使用	所有材料	HQ Policy	MSDS
71	添加型氯/溴 系阻燃剂	--	禁止使用	PCB 以及大于 25g 塑件	HQ Policy	MSDS
72	磷酸(1,1-二甲 基乙基)苯基 二苯酯	56803-37-3	含有需申报使用	所有材料	HQ Policy	MSDS
73	磷酸异癸基 二苯酯	29761-21-5	含有需申报使用	所有材料	HQ Policy	MSDS
74	磷酸(二叔丁 基苯基)苯基 酯	65652-41-7	含有需申报使用	所有材料	HQ Policy	MSDS
75	磷酸三乙酯	78-40-0	含有需申报使用	所有材料	HQ Policy	MSDS
76	界面活性剂 （DTDMAC/ DODMAC/D HTDMAC）	68783-78-8 107-64-2 61789-80-8	所有材料总和小于 1000	所有材料	HQ Policy	MSDS
77	铍	7440-41-7 见附录 9	100	所有材料	HQ Policy	MSDS
78	铍及铍化合 物	7440-41-7 等 见附录 9	ND 且不得有意添加	所有材料	HQ Policy	MSDS
79	偏苯三酸三 辛酯 TOTM	3319-31-1	1000	电源线材	HQ Policy	MSDS
80	五氯硫酚 （PCTP）	133-49-3	ND 且不得有意添加	所有材料	HQ Policy	MSDS
81	单卤代芳香 族化合物	见附录 19	500	电容	HQ Policy	MSDS
82	多卤代芳香 族化合物	见附录 19	ND 且不得有意添加	所有材料	HQ Policy	MSDS
83	二乙二醇丁 醚(DEGBE)	112-34-5	交货品中小于 3%	所有材料	HQ Policy	MSDS
84	二乙二醇单 甲醚 (DEGME)	111-77-3	1000	所有材料	HQ Policy	MSDS
85	2,4-二硝基甲 苯	121-14-2	ND 且不得有意添加	所有材料	HQ Policy	MSDS
86	三氟化氮	7783-54-2	ND 不得有意添加	所有材料	HQ Policy	MSDS
87	2-甲氧基乙醇 和乙二醇单 甲醚	109-86-4	5000	所有材料	HQ Policy	MSDS
88	酸碱性	--	3.2-7.5 4.0-7.5	与皮肤直接接触的皮革部件 与皮肤直接接触的部件（除皮革外）	HQ Policy	MSDS
89	过敏测试(皮 肤刺激/过敏 测试)	--	过敏症状	可穿戴产品（手表，手环，VR 等）	HQ Policy	MSDS
90	丙烯酸胺（单 体）	79-06-1	5 小于 1%	长时间接触人体（包含可穿戴与非可穿戴）产品材料 不得在灌浆应用中用作浓度等于或大于 0.1%重量的混 合物的物质或成分	HQ Policy	MSDS

91	烷基酚聚氧 乙烯醚和烷基 基酚 (APEO/AP)	25154-52-3 27193-28-8 9016-45-9 26027-38-3 37205-87-1 127087-87-0 68412-54-4 9002-93-1	总和<100ppm	所有材料	HQ Policy	MSDS
92	致敏蛋白	甲壳类动物 蛋白、牛 奶、花生、 大豆、坚 果、小麦	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
93	胺类	141-43-5 111-41-1 107-15-3 135-88-6 111-42-2	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
94	灭微生物剂	35691-65-7 10605-21-7 50-00-0 26172-55-4 55965-84-9 2682-20-4 107534-96-3 731-27-1	DBDCB: 1400 多菌灵: 不使用 氯甲酚: 3000 甲醛: 75 异噻唑啉酮: 100 戊唑醇: 7000 对甲抑菌灵: 4000	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
		35691-65-7 10605-21-7 50-00-0 26172-55-4 55965-84-9 2682-20-4 107534-96-3 731-27-1	ND 且不得有意添加	所有材料	HQ Policy	MSDS
95	磷酸三苯酯 (TPHP)	115-86-6	ND 且不得有意添加	穿戴类产品中与接触皮肤部件	HQ Policy	MSDS
96	氯化芳香烃 (除五氯 苯)	见附录 15	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
97	着色剂	13425-25-7	20	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
98	二苯基硫脲	102-08-9	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
99	对烯丙基苯 甲醚	140-67-0	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
100	卤代二苯甲 烷	--	ND 且不得有意添加	所有材料	HQ Policy	MSDS
101	环六亚甲基 四胺	100-97-0	100	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
102	异氰酸盐	见附录 16	1	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
103	天然乳胶/天 然橡胶	--	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
104	噻基苯并噻 唑 (2-MBT)	149-30-4	25	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
105	N-亚硝胺	见附录 17	0.5	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
106	对苯二胺	106-50-3	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
107	杀虫剂 (毒杀芬\灭 蚁灵\DDT\硫 丹等)	8001-35-2 2385-85-5 309-00-2 76-44-8 72-20-8 60-57-1 50-29-3 57-74-9 58-89-9 319-84-6 319-85-7 608-73-1 143-50-0 115-29-7 959-98-8 33213-65-9	ND 且不得有意添加	所有材料	HQ Policy	MSDS
108	酚酞	77-09-8	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
109	多溴代苯 (PBN)	--	5 ppm	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
110	多溴三联苯 (PBT)	--	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
111	重金属（迁 移量）	见附录 13	仅针对儿童产品和纺织品与 皮革	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
112	小分子硅氧 烷（D3- D10）	541-05-9 556-67-2 541-02-6 540-97-6 107-50-6 556-68-3 556-71-8 18772-36-6	人体皮肤长期接触的硅胶件 中（如耳帽）D4、D5、D6 单项小于 300ppm 其他硅胶件中 D3-D10 总和 小于 1000ppm	硅胶材料（所有硅胶件需进行二次硫化工艺）	HQ Policy	MSDS 测试报告
			ND 且不得有意添加	其它所有材料	HQ Policy	MSDS

113	卤化联苯 三苯和萘	59536-65-1 1336-36-3 70776-03-3 61788-33-8 多溴化萘 (PBN)	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
114	苯甲醇	100-51-6	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
115	甲基丙烯酸 酯	79-41-4 80-62-6 97-63-2 97-88-1	ND 且不得有意添加	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
116	有机溶剂类	71-43-2 127-19-5 68-12-2 111-15-9 110-80-5 110-49-6 109-86-4 872-50-4 108-88-3 79-01-6	苯：ND 且不得有意添加 DMAC：1000 DMF：10 乙二醇乙醚乙酸酯：50 乙二醇单乙醚：50 甲二醇乙醚乙酸酯：10 乙二醇单甲醚：5 N-甲基吡咯烷酮（NMP）：50 甲苯：1000 三氯乙烯：5	所有材料（苯、DMAC、NMP） 粘合剂和喷漆（甲苯） 长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
			ND	所有材料申报	HQ Policy	MSDS
117	UV 稳定剂	3846-71-7	UV 320：ND 且不得有意添加 UV 327：1000 UV 350：1000	所有材料	HQ Policy	MSDS
		3864-99-1 36437-37-3				
118	2-苯基-2-丙 醇	617-94-7	75	长时间接触人体（包含可穿戴与非可穿戴）产品材料	HQ Policy	MSDS
119	1-溴丙烷	106-94-5	ND 且不得有意添加	所有材料	HQ Policy	MSDS
120	硅	7440-21-3	40	穿戴产品皮肤接触部件的橡胶硅胶	HQ Policy	MSDS
121	铍及其化合 物	7440-00-8	ND 且不得有意添加	电脑服务器的 HDDs 和云端储存类产品、穿戴产品皮 肤接触部件的皮革	HQ Policy	MSDS
122	REACH 附录 14	--	禁止使用	所有材料（适用于笔电/台式机/AIO 产品）	EPEAT HQ Policy	MSDS
123	邻苯基苯酚 (OPP)	90-43-7	禁止使用	与皮肤接触材料（纤维、皮革等）	OEKO-TEX Standard 100	MSDS
124	苯噻硫氧 (TCMTB)	21564-17-0	禁止使用	穿戴产品皮肤接触部件、天然皮革	HQ Policy	MSDS
125	4-氯-3-甲基 苯酚（CMC/ CMK）	59-50-7	禁止使用	穿戴产品皮肤接触部件、天然皮革	HQ Policy	MSDS
126	辛基异噻唑 啉酮（OIT）	26530-20-1	禁止使用	穿戴产品皮肤接触部件、天然皮革	HQ Policy	MSDS
127	磷化铟	22398-80-7	1000	所有材料	HQ Policy	MSDS
128	硫酸镍	7786-81-4	1000	制造电池和表面连接器和触点的处理/电镀	HQ Policy	MSDS
129	氨基磺酸镍	13770-89-3	1000	制造电池和表面连接器和触点的处理/电镀	HQ Policy	MSDS
130	二硫氧基甲 烷（MBT）	6317-18-6	270	穿戴产品皮肤接触部件的皮革	HQ Policy	MSDS
131	2-苯基-1,3-丙 二醇（PPD）	1570-95-2	330	穿戴产品皮肤接触部件的皮革	HQ Policy	MSDS
132	铜	7440-50-8	50	穿戴产品皮肤接触部件纤维、皮革和聚合物	HQ Policy	MSDS
133	铬	7440-47-3	200	穿戴产品皮肤接触部件的皮革	HQ Policy	MSDS
134	取代二苯胺 (SDPA)	--	含有需申报使用	所有材料	HQ Policy	MSDS
135	四氯丙烷 (TeCP)	18495-30-2	5	穿戴产品皮肤接触部件纤维、皮革和聚合物	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021; Norway Product Regulation; [EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS
136	三（2,3-二溴 丙基）膦酸盐 (TRIS)	126-72-7	ND 且不得有意添加	所有材料	[EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS
137	三（吡啶啉 基）氧化膦 (TEPA)	545-55-1	ND 且不得有意添加	所有材料	[EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS
138	杂酚油、萘 油、葱油、焦 油酸、碱性低 温焦油等	--	ND 且不得有意添加	木制包装材料	[EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS
139	十溴二苯乙 烷	84852-53-9	ND 且不得有意添加	所有材料	[Canada] Prohibition of Certain Toxic Substances Regulations	MSDS

140	磷酸三(2-氯乙基)酯 (TCEP)	115-96-8	5	儿童产品	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation [USA] Washington D.C., D.C. Law 21-108 Carcinogenic Flame Retardant Prohibition Amendment Act of 2016.	MSDS
			ND 且不得有意添加	其它所有材料	HQ Policy	MSDS
141	磷酸三(2-氯丙基)酯 (TCPP)	13674-84-5	1000	所有物品中	[USA] State of Vermont Act. 85	MSDS
142	磷酸三(2,3-二氯丙基)酯 (TDCPP)	13674-87-8	1000	所有物品中	[USA] State of Vermont Act. 85 [USA] Washington D.C., D.C. Law 21-108 Carcinogenic Flame Retardant Prohibition Amendment Act of 2016	MSDS
143	乙二醇一甲醚及其醋酸盐	109-86-4ect	5	所有材料	[USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)	MSDS
144	乙二醇一乙醚及其醋酸盐	110-80-5etc	5	所有材料	[USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)	MSDS
145	卤化二恶英和卤化呋喃	见附录 12	ND 且不得有意添加	所有材料	德国法规	MSDS
146	二羟基苯并三氮唑甲乙基石碳酸	--	ND 且不得有意添加	所有材料	本法律-化学物质评估及制造管理法规第 13 章	MSDS
147	六氯乙烷	67-72-1	ND 且不得有意添加	所有材料	REACH Annex XVII [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)	MSDS
148	二苯胺与苯乙烯和 2,4,4-三甲基戊烯的反应产物 (BNST)	68921-45-9	ND 且不得有意添加	所有材料	Canadian Environmental Protection Act,1999	MSDS
149	正丙基溴	61809-88-9	1000	所有材料	加拿大环境保护法	MSDS
150	亚硝基二苯胺	86-30-6	ND 且不得有意添加	所有材料	[Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment;	MSDS
151	甲氧基氯	72-43-5	ND 且不得有意添加	所有材料	斯德哥尔摩公约	MSDS
152	喹啉	91-22-5	50	服装或相关配件, 人体皮肤接触的纺织品	[EU] REACH Regulation (EC) No.2021/1297 ANNEX XVII	MSDS
153	铋及其化合物	7440-69-9 等	90	与儿童皮肤接触物品的油漆、喷涂		MSDS
			100	与儿童皮肤接触物品的母材		
			ND 且不得有意添加	所有材料	HQ Policy	MSDS
154	硒及其化合物	7782-49-2 等	ND 且不得有意添加	所有材料	HQ Policy	MSDS
155	金及其化合物	7440-57-5	有意添加需申报使用	所有材料	HQ Policy	MSDS
156	银及其化合物	7440-22-4	有意添加需申报使用	所有材料	HQ Policy	MSDS
157	钯及其化合物	7440-05-3	有意添加需申报使用	所有材料	HQ Policy	MSDS
158	氯化有机溶液	附录 3	1000	油漆、底漆、涂料、油墨、润滑剂和粘合剂中的溶剂	REACH/客户标准/1999 年加拿大环境保护法	MSDS
159	六氟化硫 SF6	2551-62-4	ND 且不得有意添加	禁止在制剂和物品中使用, 禁止在泡沫和不可填充容器中使用	HQ Policy	MSDS
160	杀菌剂	-	含有申报使用	所有材料	欧盟杀菌剂	MSDS
161	内分泌干扰物质	-	含有申报使用	所有材料	FR CE 第 13 条 和 2021 年 8 月 23 日第 2021-1110 号法令	MSDS
162	镁	7439-95-4	1000	非用於 L/F 導線架類	CP65, 化審法第一種特定化學物	MSDS
			3000	用於 L/F 導線架類		
163	铈及其化合物	-	1000	所有材料	HQ Policy	MSDS
164	磷酸三甲酯 (TMP)	512-56-1	ND 且不得有意添加	所有材料	HQ Policy	MSDS
165	乙二醇單丁醚	111-76-2	1000	所有材料	HQ Policy	MSDS
166	1,3,5-三(環氧乙烷基甲基)-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮立體異構體	59653-74-6	ND 且不得有意添加	所有材料	HQ Policy	MSDS
167	柠檬烯	138-86-3	1000	所有材料	HQ Policy	MSDS
168	2-萘胺盐酸盐	612-52-2	ND 且不得有意添加	所有材料	HQ Policy	MSDS
169	异丙醇	67-63-0	ND 且不得有意添加	所有材料	HQ Policy	MSDS

170	2-乙基己基二苯基磷酸酯	1241-94-7	1000	所有材料	HQ Policy	MSDS
171	磷酸三丁酯	126-73-8	1000	涂料/油墨/胶黏剂	HQ Policy	MSDS
172	矿物油	-	ND 且不得有意添加	包装材料	HQ Policy	MSDS
173	1,3-丁二烯	106-99-0	ND 且不得有意添加	所有材料	HQ Policy	MSDS
174	3,4,6,7,8-六氢 4,6,6,7,8,8-六甲基环戊[g]-2-苯并吡喃 (HHCB)	1222-05-5	ND 且不得有意添加	所有材料	HQ Policy	MSDS
175	1,4-二氧六环	123-91-1	ND 且不得有意添加	所有材料	HQ Policy	MSDS
176	乙醛	75-07-0	ND 且不得有意添加	所有材料	HQ Policy	MSDS
177	丙烯腈	107-13-1	ND 且不得有意添加	所有材料	HQ Policy	MSDS
178	C.I. 颜料紫 29(PV29)	81-33-4	ND 且不得有意添加	所有材料	HQ Policy	MSDS
179	环状脂肪族溴化物簇 (HBCE)	25637-99-4 3194-55-6 3194-57-8	ND 且不得有意添加	所有材料	HQ Policy	MSDS
180	二溴乙烷	106-93-4	ND 且不得有意添加	所有材料	HQ Policy	MSDS
181	邻苯二甲酸酐	85-44-9	ND 且不得有意添加	所有材料	HQ Policy	MSDS
182	四溴二苯醚	5436-43-1	ND 且不得有意添加	所有材料	HQ Policy	MSDS
183	氯乙烯	75-01-4	ND 且不得有意添加	所有材料	HQ Policy	MSDS
184	苯汞	62-38-4 103-27-5 13302-00-6 13864-38-5 26545-49-3	100ppm (汞的浓度)	所有材料	(EU) No 848/2012 amending Annex XVII to Regulation (EC) No 1907/2006	MSDS
185	多环芳烃	附录 10	单个物质 (BaP; BeP; BaA; BbFA; BkFA; BkFA; CHR; DBA; A [g,h,i] perylene; Indeno[1,2,3-cd]pyrene); Naphthalene <1 ppm Benzo <0.5ppm 27 项 PAHs 单个物质 <1	可接触的橡胶/塑胶的外部或表面材料 木质材料 其它所有材料	HQ Policy	MSDS
186	2,4,6-三叔丁基苯酚 (2,4,6-TTBP)	732-26-3	ND 且不得有意添加	所有材料	HQ Policy	MSDS
187	限用物质清单 (制程)	见表格 3.2	禁止使用	制程过程中	HQ Policy	MSDS
188	未来限制物质清单	见表格 3.3	非强制要求	所有材料	HQ Policy	MSDS

HQ Policy: HQ 某客户加严管控限值, 当超过管控限值时, 以具体客户标准判断依据。当物质管控要求有冲突时, 按本标准中最严的要求执行。

C 类物质：卤素

序号	物质名称	限值/ppm	适用范围	参考标准	合规性依据
1	氟 (F)	a. 含量>ND 时需提供 F 来源的调查声明 (声明中需说明 PFAS 符合性), 有值需提供 PFOA/PFOS 测试报告 (CBG 适用) b. 含量>ND 时, 需提供 F 来源声明 (声明中需说明 PFAS 符合性) 或 PFAS 报告, 有值需提供 PFOA/PFOS 测试报告 (除 CBG 外的其他项目适用) c. 穿戴类纤维/皮材料 <50, 其他材料 900 (仅移动业务适用)	所有材料	IEC61249-2-21 HQ Policy	测试报告、MSDS
2	氯 (Cl)	900 (含量 ≥ 400ppm 时需提供 Cl 来源的调查声明, 含量 ≥ 500ppm 时需提供短链氯化石蜡测试报告)			
3	溴 (Br)	900 (含量 ≥ 230ppm 时需提供 Br 来源的调查声明, 含量 ≥ 100ppm 时需提供六溴环十二烷测试报告)			
4	Cl+Br	1500			
5	碘 (I)	900 (Olympic 项目适用)			
6	F+Cl+Br+I	1000 (Olympic 移动项目适用)			

4.2 限用物质清单 (制程)

序号	物质名称	CAS 号	限值/ppm	适用范围	参考法规
1	氯化有机溶剂	见附录 3	禁止使用	所有制造过程	GBZ 2.1 2007
2	二氯乙烷	1300-21-6	禁止使用		HJ2536-2014
3	二甲苯 (含异构体)	1330-20-7、95-47-6、108-38-3、106-42-3	禁止使用		中华人民共和国国家环境保护标准与蒙特利尔议定书
4	正己烷	110-54-3 92112-69-1	禁止使用		HQ Policy
5	溴丙烷	160-94-5	禁止使用		HJ2536-2014
6	环己烷	110-82-7	禁止使用		GBZ 2.1 2007
7	N-甲基吡咯烷酮 (NMP)	872-50-4	禁止使用		HQ Policy
8	正庚烷	142-82-5	禁止使用		HQ Policy

9	苯	71-43-2	禁止使用		HQ Policy
10	甲苯	108-88-3	禁止使用		HQ Policy
11	铍及其化合物	见附录 9	0.0002mg/m ³ (人员工作区) (铍的粉尘和烟气)	所有制造过程	GBZ 2.1 2007
12	臭氧层破坏物质和温室气体	见附录 18	禁止使用	所有制造过程	中华人民共和国国家环境保护标准与蒙特利尔议定书
13	氧代二氯甲烷	542-88-1	禁止使用	所有制造过程	HQ Policy
14	五氯酚	87-86-5	禁止使用	所有制造过程	HQ Policy
15	氯乙烯	75-01-4	禁止使用	所有制造过程	HQ Policy
16	正丙基溴	106-94-5	禁止使用	所有制造过程	HQ Policy
17	乙二醇甲醚	109-86-4	禁止使用	所有制造过程	HQ Policy
18	2-甲氧基乙酸乙酯	110-49-6	禁止使用	所有制造过程	HQ Policy
19	乙二醇乙醚醋酸酯	111-15-9	禁止使用	所有制造过程	HQ Policy
20	二乙二醇二甲醚	111-96-6	禁止使用	所有制造过程	HQ Policy
21	乙二醇单乙醚	110-80-5	禁止使用	所有制造过程	HQ Policy
22	甲醇	67-56-1	禁止使用	所有制造过程	HQ Policy
23	多氯酚及其盐类	--	禁止使用	所有制造过程	HQ Policy
24	烷基酚和烷基酚乙氧基酯	--	禁止使用	所有制造过程	HQ Policy
25	氯化碳氢化合物	--	禁止使用	所有制造过程	HQ Policy
26	氯漂白剂	7782-50-5	禁止使用	纸类包材漂白制程	HQ Policy
27	三丁基锡 (TBTO)	688-73-3	禁止使用	所有制造过程	HQ Policy
28	N,N-二甲基甲酰胺 (DMF)	68-12-2	禁止使用	所有制造过程	HQ Policy
29	乙苯	100-41-4	禁止使用	所有制造过程	HQ Policy
30	六氟化硫 SF6	2551-62-4	禁止使用	所有制造过程	HQ Policy
31	PIP (3:1) 异丙基化磷酸三苯酯	68937-41-7	禁止使用	所有制造过程	HQ Policy
32	氢氟酸 Hydrofluoric acid	7664-39-3	禁止使用	玻璃蚀刻、抛光剂中	HQ Policy
33	醋酸镍 Nickel(II) acetate tetrahydrate	6018-89-9	禁止使用	金属阳极封孔剂中	HQ Policy
34	双吗啉甲烷 N,N'-Dimorpholinomethane	5625-90-1	禁止使用	CNC 防锈剂中	HQ Policy
35	乙二醇丁醚 2 Butoxyethanol	111-76-2	禁止使用	油漆、涂料、稀释剂中	HQ Policy
36	炔丙基氯 3 Chloropropyne	624-65-7	禁止使用	金属钝化剂中	HQ Policy

4.3 未来限制物质清单 (非强制要求)

序号	物质名称	CAS 号	限值/ppm	适用范围	参考法规
1	三聚氰胺	108-78-1	1000	塑料中	/
2	N-乙基-2-吡咯烷酮	2687-91-4	1000	喷涂、粘合剂中	/
3	取代二苯胺 (SDPA)	--	ND	所有材料	/
4	磷酸(1,1-二甲基乙基)苯基二苯酯	56803-37-3	ND	所有材料	/
5	磷酸异癸基二苯酯	29761-21-5	ND	所有材料	/
6	磷酸(二叔丁基苯基)苯基酯	65652-41-7	ND	所有材料	/
7	磷酸三乙酯	78-40-0	ND	所有材料	/
8	纳米物质	--	ND	所有材料	/
9	钴	7440-48-4	ND	所有材料	/

4. 附录

附录 1 邻苯二甲酸酯

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	邻苯二甲酸二 (2-乙基己基) 酯 (DEHP)	117-81-7	15	邻苯二甲酸二壬酯 (DNP)	84-76-4
2	邻苯二甲酸苯基丁酯 (BBP)	85-68-7	16	邻苯二甲酸二异辛酯 (DiOP)	27554-26-3

3	邻苯二甲酸二丁酯 (DBP)	84-74-2	17	邻苯二甲酸二丙酯 (DPrP)	131-16-8
4	邻苯二甲酸二异丁酯 (DIBP)	84-69-5	18	邻苯二甲酸二苯甲酯 (DBzP)	523-31-9
5	邻苯二甲酸二正己酯 (DnHP)	84-75-3	19	邻苯二甲酸二苯酯 (DHP)	84-62-8
6	邻苯二甲酸二戊酯 (DnPP)	131-18-0	20	邻苯二甲酸二丙酯 (DAP)	131-17-9
7	邻苯二甲酸二(2-甲氧基)乙酯 (DMEP)	117-82-8	21	1,2-苯二甲酸癸基辛基酯 (nDnOP)	119-07-3
8	邻苯二甲酸二乙酯 (DEP)	84-66-2	22	邻苯二甲酸二癸酯 (DnDP)	84-77-5
9	邻苯二甲酸二异戊酯 (DIPP)	605-50-5	23	邻苯二甲酸二异丙酯 (DIPRP)	605-45-8
10	邻苯二甲酸二环己酯 (DCHP)	84-61-7	24	邻苯二甲酸二戊酯 (DPP)	131-18-0
11	邻苯二甲酸二异壬酯 (DINP)	68515-48-0	25	DHNUP	68515-42-4
12	邻苯二甲酸二辛酯 (DNOP)	117-84-0	26	nPIPP	/
13	邻苯二甲酸二异癸酯 (DIDP)	26761-40-0	27	Diisohexyl phthalate	/
14	邻苯二甲酸二甲酯 (DMP)	131-11-3	/	/	/

附录 2 溴系阻燃剂 BFR

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	1,2-Bis(2,4,6-tribromo-phenoxy) ethane	37853-59-1	16	Dibromo-propanol	96-13-9
2	1,2-Dibromo-4-(1,2 dibromo- methyl)-cyclo-hexane	3322-93-8	17	Dibromo-styrene grafted PP	171091-06-8
3	1,3-Butadiene homopolymer, brominated	68441-46-3	18	Ethylene-bis(5,6-dibromo-norbornane- 2,3-dicarboximide)	52907-07-0
4	2,3-Dibromo-2-butene-1,4-diol	3234-02-4	19	N,N'-Ethylene -bis-(tetrabromo- phthalimide)	32588-76-4
5	2,4,6-tribromo-phenol	118-79-6	20	Pentabromo-benzyl bromide	38521-51-6
6	2,4,6-Tribromo-phenyl-allyl-ether	3278-89-5	21	Pentabromo-benzyl-acrylate, monomer	59447-55-1
7	2,4-Dibromo-phenol	615-58-7	22	Pentabromo-benzyl-acrylate, polymer	59447-57-3
8	2-Hydroxy-propyl-2-(2-hydroxy- ethoxy)-ethyl-TBP	20566-35-2	23	Pentabromo-phenol	608-71-9
9	Bis(2-ethylhexyl)tetrabromo- phthalate	26040-51-7	24	Pentabromo-toluene	87-83-2
10	Bis(methyl)tetrabromo-phthalate	55481-60-2	25	Poly(2,6-dibromo-phenylene oxide)	69882-11-7
11	Brominated epoxy resin end- capped with tribromophenol	135229-48-0	26	Poly-dibromo-styrene	31780-26-4
12	Brominated epoxy resin end- capped with tribromophenol	139638-58-7	27	TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1
13	Brominated polystyrene(BRPS)	57137-10-7	28	TBPA Na salt	25357-79-3
14	Bis(2,3-dibromopropyl) hydrogen phosphate	5412-25-9	29	TBPA, glycol-and propylene-oxide esters	75790-69-1
15	Bis(2,4,6-tribromophenyl)	67990-32-3	30	Tetrabromo phthalic anhydride(TBPA)	632-79-1

附录 3 氯化有机溶剂

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	Bromodichloromethane	75-27-4	12	1,1,2,2-Tetrachloroethane	79-34-5
2	Carbon tetrachloride	56-23-5	13	1,1,1-Trichloroethane	71-55-6
3	Chloroform	67-66-3	14	1,1,2-Trichloroethane	79-00-5
4	Dibromochloromethane	124-48-1	15	1,1-Dichloroethylene	75-35-4
5	Methylene chloride	75-09-2	16	Methyl chloride	74-87-3
6	Chloroethane	75-00-3	17	cis-1,2-Dichloroethylene	156-59-2
7	1,1-Dichloroethane	75-34-3	18	trans-1,2-Dichloroethylene	156-60-5
8	1,2-Dichloroethane	107-06-2	19	Tetrachloroethylene	127-18-4
9	Hexachloroethane	67-72-1	20	Trichloroethylene	79-01-6
10	Pentachloroethane	76-01-7	21	HCFCs	/
11	1,1,1,2-Tetrachloroethane	630-20-6			

附录 4 偶氮染料-芳香胺和苯胺类化合物

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	2,4,5-trimethylaniline	137-17-7	14	5-nitro-o-toluidine	99-55-8
2	2,4-diaminoanisole	615-05-4	15	Benzidine	92-87-5
3	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	16	o-aminoazotoluene	97-56-3
4	2-naphthylamine	91-59-8	17	o-Toluidine	95-53-4
5	3,3-dichlorobenzidine	91-94-1	18	p-chloroaniline	106-47-8
6	3,3-dimethylbenzidine	119-93-7	19	6-methoxy-m-toluidine (p-cresidine)	120-71-8
7	3,3-dimethoxybenzidine	119-90-4	20	2-Methoxyaniline; o-Anisidine	90-04-0
8	4,4'-methylenedi-o-toluidine	838-88-0	21	2,4-xylydine	95-68-1
9	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	22	2,6-xylydine	87-62-7
10	2,2'-dichloro-4,4'- methylenedianiline	101-14-4	23	4,4'-oxydianiline and its salts	-
11	4,4'-oxydianiline	101-80-4	24	Other Azo and its compounds	-
12	4,4-thiodianiline	139-65-1	25	Biphenyl-4-ylamine	92-67-1
13	4-Aminoazobenzene	60-09-3	26	4-chloro-o-toluidine	95-69-2

附录 5 全氟羧酸

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	TFA	76-05-1	8	PFNA	375-95-1
2	PFPrA	422-64-0	9	PFDA	335-76-2
3	PFBA	375-22-4	10	PFUDA	2058-94-8
4	PFPA	2706-90-3	11	PFDoDA	307-55-1
5	PFHxA	307-24-4	12	PFTTrDA	72629-94-8
6	PFHpA	375-85-9	13	PFTeDA	376-06-7
7	PFOA	335-67-1			

附录 6 有机锡化合物

三丁基锡化合物 TBT/TPT

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	Tributyl tin (TBT)	56573-85-4	15	Tributyl tin rosin salts	26239-64-5
2	Triphenyl tin (TPT)	668-34-8	16	Tributyl tin sulfamate	6517-25-5
3	Bis(tributyltin)oxide (TBTO)	56-35-9	17	Tributyltin cyclopentane carbonate=mixture	5409-17-2
4	Copolymer of alkyl(c=8) acrylate, methyl methacrylate and tributyltin methacrylate	67772-01-4	18	Tributyltinmethacrylate	2155-70-6
5	Methyl Methacrylate and tributyl tin methacrylate	1461-25-2	19	Triphenyl tin acetate(fentin acetate)	900-95-8
6	Tributyl 2,3-dibromosuccinate	31732-71-5	20	Triphenyl tin chloride	639-58-7
7	Tributyl tin acetate	56-36-0	21	Triphenyl tin chloro acetate	7094-94-2
8	Tributyl tin bromide	1461-23-0	22	Triphenyl tin fluoride(fentin fluoride)	379-52-2
9	Tributyl tin chloride	1461-22-9 7342-38-3	23	Triphenyltin fatty acid((9-11) salt)	18380-71-7 18380-72-8 47672-31-1 94850-90-5
10	Tributyl tin fluoride	1983-10-4; 7304-48-5	24	Triphenyl tin hydroxide	76-87-9
11	Tributyl tin fumarate	6454-35-9; 24291-45-0	25	Triphenyl tin N, N' - dimethyldithiocarbamate	1803-12-9
12	Tributyl tin laurate	3090-36-6	26	Triphenyl tin maleate	14275-57-1
13	Tributyl tin naphthenate	85409-17-2	27	Other Organic tin and its compounds	/
14	Tributyl tin phthalate	4782-29-0			

二辛基锡化合物 DOT

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	Diocetyl tin (DOT)	26401-97-8	5	Diocetyl tin dilaurate (DOT)	3648-18-8
2	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	6	Diocetyl tin maleate (DOT)	16091-18-2
3	Diocetyl tin bis(isooctyl maleate) (DOT)	33568-99-9	7	Diocetyl tin oxide (DOT)	870-08-6
4	Diocetyl tin dichloride (DOT)	3542-36-7	8	Diocetyl tin (DOT) compounds	/

二丁基锡化合物 DBT

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	Dibutyl tin (DBT)	1002-53-5	18	Dibutyl tin distearate	5847-55-2
2	Dibutyl tin dimaleate	10192-92-4	19	Diisobutyl tin oxide	61947-30-6
3	Dibutyl tin diacetate	1067-33-0	20	Dibutyl tin dichloride (DBTC)	683-18-1
4	Dibutyl tin dilauryl mercaptide	1185-81-5	21	Dibutyl tin bis(benzyl maleate)	7324-74-5
5	Dibutyl tin dioleate	13323-62-1	22	Dibutyl tin hydrogen borate	75113-37-0
6	Dibutyl tin dipalmitate	13323-63-2	23	Dibutyl tin dilaurate	77-58-7
7	Dibutyl tin disalicylate	14214-24-5	24	Dibutyl tin maleate	78-04-6
8	Di-n-butyl tin bis(methyl maleate)	15546-11-9	25	Dibutyl tin mercaptopropionate	78-06-8
9	Dibutyl tin di(2-ethylhexyl maleate)	15546-12-0	26	Dibutyl tin mercaptoacetate	78-20-6
10	Di-n-butyl tin di(monobutyl)maleate	15546-16-4	27	Dibutyl tin oxide (DBTO)	818-08-6
11	Bis (acetato) dibutyl tin	17523-06-7	28	Dibutyl tin linoleate	85391-79-3
12	Dibutyl tin dihexanoate	19704-60-0	29	Dibutyl tin isooctanoate	85702-74-5
13	Dibutyl tin S, S'-bis (isooctyl mercaptoacetate)	26636-01-1	30	Dibutyl tin linolenate	95873-60-2
14	Dibutyl tin bis(octylthioglycolate)	2781-09-01	31	Dibutyl tin diisostearate	59963-28-9
15	Dibutyl tin dibutoxide	3349-36-8	32	Dibutyl tin dibutyrate	28660-63-1
16	Dibutyl tin dioctanoate	4731-77-5	33	Dibutyl tin bis(isooctylmaleate)	25168-21-2
17	Dibutyl tin dibenzoate	5847-54-1	34	Other Dibutyl tin (DBT) compounds	/

附录 7 全氟辛烷磺酸及其盐 (PFOS)

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	Perfluorooctane sulfonic acid and its salts	1763-23-1	11	PFOS Ion	45298-90-6
2	Perfluorooctane sulfonyl fluoride	307-35-7	12	PFOS Triphenylsulfonium Salt	144089-15-6
3	Heptadecafluorooctanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-14-8	13	PFOS Sodium Salt	4021-47-0
4	Potassium heptadecafluorooctane-1-sulphonate	2795-39-3	14	2-[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctylsulfonyl(methyl)amino]acetic acid	2355-31-9
5	Lithium heptadecafluorooctanesulphonate	29457-72-5	15	2-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctylsulfonylamino)acetic acid	2806-24-8
6	Tetraethylammonium heptadecafluorooctanesulphonate	56773-42-3	16	N-ethylperfluorooctane sulfonamidoacetic acid	2991-50-6
7	N-ethyl-N-perfluorooctylsulfonylaminoethanol	1691-99-2	17	1-Decanaminium, N-decyl-N,N-dimethyl-heptadecafluoro-1-octanesulfonate (全氟辛基磺酸二癸二甲基铵)	251099-16-8
8	N-(2-hydroxyethyl)-N-methyl-perfluorooctane-1-sulfonamide	24448-09-7	18	Sulfluramid 氟酰胺 (N-乙基全氟辛基磺酰胺)	4151-50-2
9	Ammonium heptadecafluorooctanesulphonate	29081-56-9	19	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyloctane-1-sulfonamide (1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-N-甲基辛磺酰胺)	31506-32-8
10	Heptadecafluorooctanesulphonamide	754-91-6	20	Other (其他)	见 POPs 法规

附录 7 全氟辛烷磺酸 (PFOS) 及其衍生物

物质名称 (中文)	物质名称 (英文)	简称	CAS 号
全氟辛基磺酸	Perfluorooctanesulfonic acid	PFOS	1763-23-1
全氟辛基磺酸钾	Perfluorooctanesulfonic acid, potassium salt	PFOS-K	2795-39-3
全氟辛基磺酸锂	Perfluorooctanesulfonic acid, lithium salt	PFOS-Li	29457-72-5
全氟辛基磺酸铵	Perfluorooctanesulfonic acid, ammonium salt	PFOS-NH ₄	29081-56-9
全氟辛基磺酸二乙醇胺	Perfluorooctane sulfonate diethanolamine salt	PFOS-NH(OH) ₂	70225-14-8
全氟辛基磺酸四乙基铵	Perfluorooctanesulfonic acid, tetraethylammonium salt	PFOS-N(C ₂ H ₅) ₄	56773-42-3
全氟辛基磺酸二癸二甲基铵	Didecyl dimethyl ammonium perfluorooctane sulfonate	PFOS-DDA	251099-16-8
全氟辛基磺酰氟	Perfluoro-1-octanesulfonyl fluoride	PFOSF	307-35-7
氟虫胺	N-Ethylperfluoro-1-octanesulfonamide	N-Et-FOSA	4151-50-2
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-N-甲基-辛磺酰胺	N-Methylperfluoro-1-octanesulfonamide	N-Me-FOSA	31506-32-8
N-乙基全氟辛基磺酰胺乙醇	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol	N-Et-FOSE	1691-99-2
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-N-(2-羟乙基)-N-甲基-1-辛基磺酰胺	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol	N-Me-FOSE	24448-09-7
全氟辛基磺酰胺	Perfluorooctanesulfonamide	PFOSA	754-91-6
N-(十七氟辛基磺酰基)-N-甲基甘氨酸	N-Methyl perfluorooctanesulfonamidoacetic acid	N-Me-FOSAA	2355-31-9
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸	N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]glycine	N-Et-FOSAA	2991-50-6
全氟辛基磺酸钠	Sodium perfluorooctane sulfonate	PFOS-Na	4021-47-0
全氟辛烷磺酰氨基乙酸	Glycine, N-[(heptadecafluorooctyl)sulfonyl]-	FOSAA	2806-24-8
全氟辛基磺酸镁	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, magnesium salt (2:1)	PFOS-Mg	91036-71-4
全氟辛基磺酸哌啶	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	-	71463-74-6

全氟辛基磺酰胺锂盐 (1: 1)	Perfluorooctanesulfonamide lithium salt (1:1)	PFOSA-Li	76752-79-9
------------------	---	----------	------------

附录 8 全氟辛酸其盐和酯 (PFOA)

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	Pentadecafluorooctanoic acid (PFOA)	335-67-1	6	Perfluorooctanoyl fluoride	335-66-0
2	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	7	Methyl perfluorooctanoate	376-27-2
3	Perfluorooctanoic acid sodium salt	335-95-5	8	Ethyl perfluorooctanoate	3108-24-5
4	Perfluorooctanoic acid potassium salt	2395-00-8	9	Other PFOAs	/
5	Silver perfluorooctanoate	335-93-3			

附录 8 全氟辛酸 (PFOA) 其盐和相关化合物

物质名称 (中文)	物质名称 (英文)	简称	CAS 号
全氟辛酸	Perfluorooctanoic acid	PFOA	335-67-1
全氟辛酸铵	Ammonium pentadecafluorooctanoate	APFO	3825-26-1
全氟辛酸钠	Sodium perfluorooctanoate	PFOA-Na	335-95-5
全氟辛酸钾	Potassium perfluorooctanoate	PFOA-K	2395-00-8
全氟辛酸银	Silver perfluorooctanoate	PFOA-Ag	335-93-3
全氟辛氟	Perfluorooctanoyl fluoride	PFOA-F	335-66-0
全氟辛酸甲酯	Methyl perfluorooctanoate	Me-PFOA	376-27-2
全氟辛酸乙酯	Ethyl perfluorooctanoate	Et-PFOA	3108-24-5
全氟正辛基碘烷	Perfluorooctyl iodide	PFOI	507-63-1
1H,1H,2H,2H-全氟-1-癸醇	1H,1H,2H,2H-perfluoro-1-decanol	8:2 FTOH	678-39-7
1H,1H,2H,2H-全氟癸磺酸	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid	8:2 FTS	39108-34-4
丙烯酸 1H,1H,2H,2H-十七氟癸酯	1,1,2,2-Tetrahydroperfluorodecyl acrylate	8:2 FTAC	27905-45-9
2-(全氟辛基)乙基甲基丙烯酸酯	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester	8:2 FTMA	1996-88-9
1H,1H,2H,2H-全氟癸基三乙氧基硅烷	1H,1H,2H,2H-Perfluorodecyltriethoxysilane	PFSI	101947-16-4
1-碘-1H,1H,2H,2H-全氟癸烷	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluoro-10-iodo-	8:2 FTI	2043-53-0
双(2-(全氟乙基))磷酸	8:2 Fluorotelomer phosphate diester	8:2diPAP	678-41-1
四丁基磷 2H,2H-全氟癸酸酯	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate	H2PFDA-P(C4H9)4	882489-14-7
2H,2H,3H,3H-全氟十一酸	2H,2H,3H,3H-Perfluoroundecanoic acid	H4PFUnA	34598-33-9
2H,2H-全氟癸酸	2H,2H-Perfluorodecanoate	H2PFDA	27854-31-5
全氟辛基乙烯	1-Decene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-	PFOE	21652-58-4
全氟癸基三氯硅烷	Perfluorooctylethyltrichlorosilane	FDTS	78560-44-8
全氟癸基三甲氧基硅烷	Perfluorooctylethyltrimethoxysilane	FDTMOS	83048-65-1
3-(全氟辛基)丙酸钾	Potassium 3-(perfluorooctyl)propanoate	H4PFUnA-K	83310-58-1
双(2-(全氟乙基))磷酸钠	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate	8:2diPAP-Na	114519-85-6
全氟辛酸锂	Lithium perfluorooctanoate	PFOA-Li	17125-58-5
双[2-(全氟癸基)乙基]磷酸酯	Bis[2-(perfluorodecyl)ethyl] Phosphate	10:2 diPAP	1895-26-7

十七氟-1-癸醇磷酸二氢酯	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl dihydrogen phosphate	8:2 monoPAPS	57678-03-2
2H-全氟-2-癸烯酸	2H-Perfluoro-2-decenoic acid	8:2 FTUCA	70887-84-2
全氟辛酸铯	cesium perfluorooctanoate	PFOA-Cs	17125-60-9
全氟辛酸铬	Chromium(III) perfluorooctanoate	PFOA-Cr	68141-02-6
全氟辛酸钴	Cobalt perfluorooctanoate	PFOA-Co	35965-01-6
1H,1H,2H,2H-全氟癸磺酸铵	8:2 Fluorotelomer sulfonate ammonium salt	8: 2FTS-NH4	149724-40-3
1H,1H,2H,2H-全氟癸磺酸钠	1H,1H,2H,2H-Perfluorodecanesulfonic Acid Sodium	8: 2FTS-Na	27619-96-1
双(2-(全氟乙基)磷酸铵	Ammonium bis(1H,1H,2H,2H-perfluorodecyl)phosphate	8:2diPAP-NH4	93776-20-6

附录 9 铍及其化合物

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	Beryl ore	1302-52-9	18	Beryllium di(acetate)	543-81-7
2	Beryllate(2-), tetrafluorodiammonium	14874-86-3	19	Beryllium fluoride	7787-49-7 12323-05-6
3	Beryllium	120-12-7	20	Beryllium hydroxide	13327-32-7
4	Beryllium boride	12536-51-5 12536-52-6 12228-40-9 12429-94-6	21	Beryllium nitrate	13597-99-4
5	Beryllium bromide	7787-46-4	22	Beryllium nitrate trihydrate	7787-55-5
6	Beryllium carbide	506-66-1	23	Beryllium iodide	7787-53-3
7	Beryllium carbonate	13106-47-3 66104-24-3	24	Beryllium nitride	1304-56-9
8	Beryllium chloride	7787-47-5	25	Beryllium phosphate	13598-15-7
9	Beryllium selenide	12232-25-6	26	Beryllium phosphide	58127-61-0 57620-29-8
10	Beryllium sulfate tetrahydrate	7787-56-6	27	Beryllium sulfate	13510-49-1
11	Beryllium telluride	12232-27-8	28	Beryllium sulfide	13598-22-6
12	Beryllium zinc silicate	39413-47-3	29	Beryllium zinc silicate	25638-88-4
13	Bis(pentane-2,4-dionato, o') beryllium	10210-64-7	30	Beryllium-aluminum alloy	12770-50-2
14	Disodium tetrafluoroberyllate	13871-27-7	31	Diethylberyllium	542-63-2
15	Nitric acid, beryllium salt, tetrahydrate	13510-48-0	32	Hexakis[.mu.- (acetate-o:o')]-mu. 4-oxotetraBeryllium	19049-40-2
16	Phosphoric acid, beryllium salt(2:3)	13598-26-0	33	Silicic acid(H4SiO4), beryllium salt(1:2)	15191-85-2
17	Phosphoric acid, beryllium salt	35089-00-0	/	/	/

附录 10 多环芳烃 (PAHs)

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	Acenaphthene	83-32-9	15	Dibenz(a, j)acridine	224-42-0
2	Acenaphthylene	208-96-8	16	Dibenzo(a, h)anthracene	53-70-3
3	Anthracene	120-12-7	17	Dibenzo(a, e)fluoranthene	5385-75-1
4	Benzo(a)anthracene	56-55-3 1718-53-2	18	Dibenzo(a, e)pyrene	192-65-4
5	Benzo(a)phenanthrene (chrysene)	218-01-9	19	Dibenzo(a, h)pyrene	189-64-0
6	Benzo(a)pyrene	50-32-8	20	Dibenzo(a, l)pyrene	191-30-0
7	Benzo(b)fluoranthene	205-99-2	21	7H-Dibenzo(c, g)carbazole	194-59-2
8	Benzo(e)pyrene	192-97-2	22	Fluorene	86-73-7
9	Benzo(g, h, i)perylene	191-24-2	23	Indeno(1, 2, 3-cd)pyrene	193-39-5
10	Benzo(j)fluoranthene	205-82-3	24	5-Methylchrysene	3697-24-3
11	Benzo(k)fluoranthene	207-08-9	25	Naphthalene	91-20-3
12	Benzo(j, k)fluorene (Fluoranthene)	206-44-0 93951-69-0	26	Phenanthrene	85-01-8
13	Benzo(r, s, t)pentaphene	189-55-9	27	Pyrene	129-00-0 1718-52-1
14	Dibenz(a, h)acridine	226-36-8			

附录 11 致癌及致敏染料

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	C. I. Acid Red 26	3761-53-3	19	C. I. Disperse Yellow 3	2832-40-8
2	C. I. Basic Red 9	25620-78-4 569-61-9	20	C. I. Disperse Orange 149	85136-74-9
3	C. I. Basic Violet 14	632-99-5	21	C. I. Disperse Yellow 23	6250-23-3
4	C. I. Direct Black 38	1937-37-7	22	C. I. Basic Green 4 (oxalate)	2437-29-8, 18015-76-4
5	C. I. Direct Blue 6	2602-46-2	23	C. I. Basic Green 4 (chloride)	569-64-2

6	C. I. Direct Red 28	573-58-0	24	C. I. Basic Green 4 (free)	10309-95-2
7	C. I. Disperse Blue 1	2475-45-8	25	Navy Blue	EG No. 405-665-4
8	C. I. Disperse Orange 11	82-28-0	26	Disperse Orange 3	730-40-5
9	Disperse Blue 1	2475-45-8	27	Disperse Orange 37	12223-33-5
10	Disperse Blue 3	2475-46-9	28	Disperse Orange 76	13301-61-6
11	Disperse Blue 7	3179-90-6	29	Disperse Red 1	2872-52-8
12	Disperse Blue 26	3860-63-7	30	Disperse Red 11	2872-48-2
13	Disperse Blue 35	12222-75-2	31	Disperse Red 17	3179-89-3
14	Disperse Blue 102	12222-97-8	32	Disperse Yellow 1	119-15-3
15	Disperse Blue 106	12223-01-7	33	Disperse Yellow 3	2832-40-8
16	Disperse Blue 124	61951-51-7	34	Disperse Yellow 9	6373-73-5
17	Disperse Brown 1	23355-64-8	35	Disperse Yellow 39	12236-29-2
18	Disperse Orange 1	2581-69-3	36	Disperse Yellow 49	54824-37-2

附录 12 二恶英和呋喃类物质

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	2,3,7,8-四氯二苯并对二恶英	1746-01-6	14	呋喃	110-00-9
2	1,2,3,7,8-五氯二苯并对二恶英	40321-76-4	15	2,3,4,6,7,8-六氯二苯并呋喃	60851-34-5
3	1,2,3,4,7,8-六氯二苯并-对-二恶英	39227-28-6	16	1,2,3,4,6,7,8-七氯二苯并呋喃	67562-39-4
4	1,2,3,6,7,8-六氯二苯并-对-二恶英	57653-85-7	17	1,2,3,4,7,8,9-七氯二苯并呋喃	55673-89-7
5	1,2,3,7,8,9-六氯二苯并-对-二恶英	19408-74-3	18	1,2,3,4,6,7,8,9-八氯二苯并呋喃	39001-02-0
6	1,2,3,4,6,7,8-七氯二苯并-对-二恶英	35822-46-9	19	1,2,6,7-四氯二苯并-对-二恶英	41903-57-5
7	1,2,3,4,6,7,8,9-八氯二苯并-对-二恶英	3268-87-9	20	1,2,3,4,6-五氯二苯并二恶英	36088-22-9
8	2,4,7,8-四氯二苯并呋喃	51207-31-9	21	1,2,3,4,6,7-六氯二苯并-对-二恶英	34465-46-8
9	1,2,3,7,8-五氯二苯并对二恶英	57117-41-6	22	1,2,3,4,6,7,8-七氯二苯并-对-二恶英	37871-00-4
10	2,3,4,7,8-五氯二苯并对二恶英	57117-31-4	23	四氯二苯并呋喃	55722-27-5
11	1,2,3,4,7,8-六氯二苯并呋喃	70648-26-9	24	五氯二苯并呋喃	30402-15-4
12	1,2,3,6,7,8-六氯二苯并呋喃	57117-44-9	25	六氯二苯并呋喃	55684-94-1
13	1,2,3,7,8,9-六氯二苯并呋喃	72918-21-9	26	七氯二苯并呋喃	38998-75-3

附录 13 可迁移重金属

纺织品与皮革

序号	物质名称	CAS 号	限值/ppm	
			纺织品	皮革
1	Antimony (Sb)	7440-36-0	30	30
2	Arsenic (As)	7440-38-2	1	1
3	Lead (Pb)	7439-92-1	1	1
4	Cadmium (Cd)	7440-43-9	0.1	01
5	Chromium (Cr)	7440-47-3	2	200
6	Hexavalent chromium (Cr6+)	18540-29-9	0.5	3
7	Cobalt (Co)	7440-48-4	4	4
8	Copper (Cu)	7440-50-8	50	50
9	Nickel (Ni)	7440-02-0	4	4
10	Mercury (Hg)	7439-97-6	0.02	002
11	Barium (Ba)	7440-39-3	/	1000
12	Selenium (Se)	7782-49-2	/	100

儿童产品

序号	物质名称	CAS 号	迁移量限值/ppm	序号	物质名称	CAS 号	迁移量限值/ppm
1	铝 Aluminium	7429-90-5	70000	11	铜 Copper	7440-50-8	7700
2	锑 Antimony	7440-36-0	60	12	铅 Lead	7439-92-1	23
3	砷 Arsenic	7440-38-2	25	13	锰 Manganese	7439-96-5	15000
4	钡 Barium	7440-39-3	1000	14	汞 Mercury	7439-97-6	0.02
5	硼 Boron	7440-42-8	15000	15	镍 Nickel	7440-02-0	930
6	镉 Cadmium	7440-43-9	17	16	硒 Selenium	7782-49-2	460
7	三价铬 Chromium III	/	460	17	锶 Strontium	7440-24-6	56000
8	六价铬 Chromium VI	/	0.05	18	锡 Tin	7440-31-5	180000
9	铬 Chromium	7440-47-3	60	19	有机锡 Organic tin	/	12
10	钴 Cobalt	7440-48-4	90	20	锌 Zinc	7440-66-6	46000

附录 14 添加型磷系阻燃剂

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	Isodecyl diphenyl phosphate	29761-21-5	7	Red phosphorous	7723-14-0
2	Melamine phosphate	41583-09-9	8	Tri-o-cresyl phosphate	78-30-8
3	Tetrakis(hydroxymethyl)phosphonium sulphate	55566-30-8	9	Tri-p-cresyl phosphate	78-32-0

4	Tri-m-cresyl phosphate	563-04-2	10	Triethyl phosphate	78-40-0
5	Tris(4-tert-butylphenyl) phosphate	78-33-1	11	Tris(2-ethylhexyl) phosphate	78-42-2
6	Piperazine pyrophosphate	66034-17-1	12	Tris(2-butoxyethyl) phosphate	78-51-3

附录 15 氯化芳香烃

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	邻氯甲苯	95-49-8	15	1,2,3-三氯苯	87-61-6
2	3-氯甲苯	108-41-8	16	1,2,4-三氯苯	120-82-1
3	对氯甲苯	106-43-4	17	1,3,5-三氯苯	108-70-3
4	2,3-二氯甲苯	32768-54-0	18	1,2,3,4-四氯苯	634-66-2
5	2,4-二氯甲苯	95-73-8	19	1,2,3,5-四氯苯	634-90-2
6	2,5-二氯甲苯	19398-61-9	20	1,2,4,5-四氯苯	95-94-3
7	2,6-二氯甲苯	118-69-4	21	五氯苯	608-93-5
8	3,4-二氯甲苯	95-75-0	22	六氯苯	118-74-1
9	2,3,6-三氯甲苯	2077-46-5	23	四氯间二甲基苯	877-09-8
10	2,4,5-三氯甲苯	6639-30-1	24	氯化苯	100-44-7
11	五氯甲苯	877-11-2	25	对氯苯并三氯	5216-25-1
12	邻二氯苯	95-50-1	26	4-氯邻甲苯胺氯化物	3165-93-3
13	间二氯苯	541-73-1			
14	1,4-二氯苯	106-46-7			

附录 16 异氰酸盐类物质

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	Isocyanic acid	9016-87-9	14	Benzene, diisocyanatomethyl- (9CI)	1321-38-6
2	Carbonic dichloride	32055-14-4	15	2-methyl-m-phenylene diisocyanate	91-08-7
3	4,4'-Diphenylmethane diisocyanate	101-68-8	16	Benzene, 1,3-diisocyanatomethyl	26471-62-5
4	Benzene-1,2,4,5-d4, 3,3'-methy	88077-90-1	17	4-methyl-m-phenylene diisocyanate	584-84-9
5	Benzene, 1,1'-(methylene-d2)b	215590-71-9	18	Benzene, 1,3-diisocyanato-5-methyl	14219-05-7
6	Benzene, 1,1'-(methylene-14	1006610-56-5	19	Toluene-d6 2,4-Diisocyanate	1398066-04-0
7	methylenediphenyl diisocyanat	26447-40-5	20	1-methyl-2,4-bis(oxomethylideneamino)benzene	1346599-79-8
8	2,4'-METHYLENEBIS(PHENYL ISOCYANATE)	5873-54-1	21	/	26102-02-3
9	2,2'-methylenediphenyl diisocyanate	2536-05-2	22	/	10481-63-7
10	4,4'-Diphenylmethane diisocyanate	101-68-8	23	/	10466-63-4
11	/	88077-90-1	24	/	7367-55-7
12	/	215590-71-9	25	/	4963-53-5
13	/	1006610-56-5			

附录 17 N-亚硝胺类物质

序号	物质名称	CAS 号	序号	物质名称	CAS 号
1	N-亚硝基二异丁胺	997-95-5	12	Methan-d3-amine-15N	854018-25-0
2	N-甲基-N-亚硝基苯胺	614-00-6	13	Methyl	903875-68-3
3	N-甲基-N-亚硝基甲胺	62-75-9	14	Methan-d2-amine	1383615-72-2
4	氘代 N-亚硝基二甲胺 D6	17829-05-9	15	Methanamine	67151-47-7
5	Methan-d3-amine	32745-07-6	16	Methanamine	70384-33-7
6	Methanamine	29410-16-0	17	Methan-t3-amine	89143-47-5
7	Methanamine-15N	32745-06-5	18	Dimethylamine-1-C14	108015-68-5
8	Methanamine-13C	32745-08-7	19	Methan-d-t-amine	199984-09-3
9	Methanamine	32745-04-3	20	Methan-d-t-amine	199984-13-9
10	Methanamine-15N	77047-60-0	21	Methanamine-13C	1383615-75-5
11	Methanamine-14C	70519-14-1			

附录 18 臭氧层破坏物质和温室气体

序号	名称	CAS No.	序号	名称	CAS No.
1	CFC-11	75-69-4	11	CFC-115	76-15-3
2	CFC-12	75-71-8	12	CFC-211	422-78-6
3	CFC-13	75-72-9	13	CFC-212	661-96-1
4	CFC-111	354-56-3	14	CFC-213	1652-89-7
5	CFC-112	76-11-9	15	CFC-214	677-68-9
6	CFC-112	76-12-0	16	CFC-215	1599-41-3
7	CFC-113	354-58-5	17	CFC-215	76-17-5
8	CFC-113	76-13-1	18	CFC-216	661-97-2
9	CFC-114	374-07-2	19	CFC-216	1652-80-8

10	CFC-114	76-14-2	20	CFC-217	422-86-6
Halon 类物质					
1	Halon 1211	353-59-3	2	Halon 1301	75-63-8
3	Halon 2402	124-73-2			
HFC					
1	HFC-23	75-46-7	10	HFC-143a	430-66-0
2	HFC-32	75-10-5	11	HFC-227ea	-
3	HFC-41	593-53-3	12	HFC-236cb	-
4	HFC-43-10mee	-	13	HFC-236ea	431-63-0
5	HFC-125	354-33-6	14	HFC-236fa	690-39-1
6	HFC-134	359-35-3	15	HFC-245ca	679-86-7
7	HFC-134a	811-97-2	16	HFC-245fa	-
8	HFC-152a	75-37-6	17	HFC-365mfc	-
9	HFC-143	420-46-2			

附录 19 卤代芳香物质

序号	名称	CAS
1	Monomethyl tetrachloro diphenyl methane ade name: Ugilec 141	76253-60-6
2	Monomethyl dichloro diphenyl methane Trade name: Ugilec 121, Ugilec 21	81161-70-8
3	Monomethyl dibromo dipenyl methane Trade name: DBBT	99688-47-8
4	Halogenated benzenes -	-
5	Chlorobenzene	108-90-7
6	Dichlorobenzene, 1,2- (ortho-DCB)	95-50-1
7	Dichlorobenzene, 1,4- (para-DCB)	106-46-7
8	Pentachlorobenzene	608-93-5
9	Tetrachlorobenzene, 1, 2, 4, 5-	95-94-3
10	Tetrachlorobenzene, 1, 2, 3, 5-	634-90-2
11	Tetrachlorobenzene, 1, 2, 3, 4-	634-66-2
12	Trichlorobenzene, 1, 2, 4 -	120-82-1
13	Trichlorobenzene, 1, 2, 3-	87-61-6

附录 20 饱和烷烃矿物油（MOSH）&芳香烃矿物油（MOAH）物质

法国禁止在包装材料中使用矿物油墨--饱和烷烃(MOSH)	饱和烷烃(MOSH)	295-65-8	150049-36-8	42506-29-6	109092-41-3
	饱和烷烃(MOSH)	2414049-19-5	150049-35-7	41977-40-6	109090-47-3
	饱和烷烃(MOSH)	2414049-14-0	148425-77-8	39762-40-8	101592-83-0
	饱和烷烃(MOSH)	2275729-57-0	130524-82-2	39762-39-5	101592-82-9
	饱和烷烃(MOSH)	2173146-61-5	124959-95-1	39762-38-4	101592-81-8
	饱和烷烃(MOSH)	2050480-14-1	124959-94-0	37617-28-0	101592-80-7
	饱和烷烃(MOSH)	1809755-11-0	118655-69-9	20250-91-3	101592-79-4
	饱和烷烃(MOSH)	1809242-20-3	110940-61-9	18208-64-5	101592-77-2
	饱和烷烃(MOSH)	1774375-45-9	108897-81-0	13151-76-3	99916-79-7
	饱和烷烃(MOSH)	1682613-87-1	108896-39-5	13151-75-2	99916-78-6
	饱和烷烃(MOSH)	1609353-82-3	107154-58-5	13151-74-1	98672-12-9
	饱和烷烃(MOSH)	1401822-89-6	102860-64-0	13151-73-0	86960-70-5
	饱和烷烃(MOSH)	1360924-43-1	101442-87-9	10483-57-5	76637-62-2
	饱和烷烃(MOSH)	1263691-50-4	101442-86-8	6785-23-5	71676-86-3
	饱和烷烃(MOSH)	1235861-11-6	101442-85-7	4789-31-5	58259-52-2
	饱和烷烃(MOSH)	1203450-39-8	101442-84-6	4789-30-4	54105-66-7
	饱和烷烃(MOSH)	1185773-91-4	101442-83-5	1795-16-0	42506-43-4
	饱和烷烃(MOSH)	1185768-27-7	99916-90-2	2050480-16-3	42506-36-5
	饱和烷烃(MOSH)	1081518-78-6	99916-76-4	2043013-63-2	42506-35-4
	饱和烷烃(MOSH)	1071124-60-1	99916-75-3	1786436-29-0	42506-34-3
	饱和烷烃(MOSH)	1064683-17-5	99916-74-2	1639411-21-4	42506-33-2
	饱和烷烃(MOSH)	1056417-75-4	99916-73-1	1380239-24-6	41977-41-7
	饱和烷烃(MOSH)	1032065-08-9	99916-72-0	1360924-46-4	31904-65-1
	饱和烷烃(MOSH)	1027164-71-1	99916-69-5	1355363-37-9	28250-36-4
	饱和烷烃(MOSH)	1001304-91-1	98672-11-8	1276030-33-1	28250-35-3

饱和环烷烃(MOSH)	944045-31-2	97736-26-0	1236185-94-6	18208-78-1
饱和环烷烃(MOSH)	915302-59-9	94539-52-3	1203450-33-2	18208-72-5
饱和环烷烃(MOSH)	881996-80-1	94107-84-3	1072847-21-2	18208-65-6
饱和环烷烃(MOSH)	881996-63-0	93153-58-3	944045-30-1	13151-81-0
饱和环烷烃(MOSH)	872802-56-7	92861-61-5	906795-61-7	13151-80-9
饱和环烷烃(MOSH)	863406-50-2	86960-71-6	876856-60-9	13151-79-6
饱和环烷烃(MOSH)	861581-05-7	85969-01-3	861567-54-6	13151-78-5
饱和环烷烃(MOSH)	861581-03-5	82056-41-5	856860-39-4	13151-77-4
饱和环烷烃(MOSH)	855895-98-6	82044-55-1	856860-37-2	5634-30-0
饱和环烷烃(MOSH)	768403-67-4	65269-85-4	511538-14-0	2140238-69-1
饱和环烷烃(MOSH)	610755-91-4	65162-15-4	443684-05-7	295-97-6
饱和环烷烃(MOSH)	308342-67-8	62376-17-4	443285-81-2	42506-30-9
饱和环烷烃(MOSH)	183626-52-0	61682-11-9	400633-60-5	129337-15-1
饱和环烷烃(MOSH)	183626-51-9	58399-51-2	205529-86-8	183494-62-4
饱和环烷烃(MOSH)	183494-83-9	58259-50-0	139520-89-1	42506-31-0
饱和环烷烃(MOSH)	183494-64-6	42506-37-6	139520-88-0	137930-31-5

104-72-3	340170-97-0	148425-91-6	87018-02-8	29463-65-8
2648947-20-8	340017-14-3	146041-45-4	84651-16-1	28162-09-6
2476731-43-6	266673-99-8	145850-75-5	82511-91-9	28162-08-5
2396515-61-8	208517-77-5	145850-72-2	81870-77-1	27138-20-1
2379555-32-3	204008-69-5	145057-50-7	81870-71-5	25585-98-2
2364599-16-4	204008-68-4	145057-49-4	81870-70-4	21565-43-5
2307464-26-0	204008-67-3	145057-48-3	75934-67-7	21425-82-1
2211997-21-4	204008-66-2	140946-19-6	75934-66-6	18849-95-1
2211997-18-9	204008-65-1	138737-85-6	74783-79-2	17689-65-5
1973478-24-8	204008-64-0	136208-93-0	73466-99-6	16442-14-1
1967011-32-0	204008-63-9	132981-77-2	71766-60-4	16358-63-7
1639895-58-1	204008-62-8	132543-19-2	71521-91-0	15880-22-5
1460223-47-5	204008-61-7	129721-83-1	71521-90-9	13384-13-9
1445561-66-9	204008-60-6	124959-93-9	71521-89-6	7119-02-0
1403764-61-3	204008-33-3	123173-22-8	70930-48-2	6796-33-4
1403764-60-2	204008-32-2	122445-11-8	68640-05-1	6796-30-1
1397286-13-3	204008-31-1	115361-24-5	68640-01-7	6319-85-3
1397286-11-1	204008-30-0	104388-19-4	67754-28-3	4810-06-4
1352390-98-7	204008-29-7	101427-53-6	64391-48-6	4621-36-7
1345488-96-1	204008-28-6	101427-52-5	62449-89-2	4537-13-7
1313183-38-8	204008-27-5	101427-51-4	56909-25-2	4537-12-6
1285705-76-1	204008-26-4	101427-50-3	56532-96-8	4537-11-5
1240520-42-6	204008-25-3	101427-49-0	56532-94-6	3373-10-2
1195589-07-1	204008-24-2	101371-21-5	53657-85-5	3370-28-3
1195360-91-8	204008-23-1	101371-20-4	52313-31-2	3370-27-2
1195145-07-3	204008-22-0	100945-39-9	51770-87-7	3293-33-2
1192046-31-3	204008-21-9	100289-69-8	42052-93-7	2883-16-1

法国禁止在包装材料中使用矿物油墨--芳香烃矿物油 (MOAH)

	1186645-70-4	204008-20-8	99016-10-1	42052-92-6	2883-14-9
	1053223-82-7	204008-19-5	99016-09-8	41294-84-2	1850-36-8
	1045852-05-8	204008-18-4	98288-00-7	41073-50-1	1752-08-5
	1000174-29-7	204008-17-3	89911-39-7	40544-18-1	1703-89-5
	959572-66-8	204008-16-2	89911-38-6	40395-01-5	1212-61-9
	912815-31-7	204008-15-1	89911-16-0	38144-92-2	1020-87-7
	875843-00-8	204008-14-0	89911-15-9	37723-25-4	1020-86-6
	872306-85-9	199608-20-3	89911-14-8	36614-75-2	1020-38-8
	859781-96-7	184760-73-4	89911-13-7	36614-74-1	1020-14-0
	857001-05-9	177969-65-2	89784-61-2	36614-73-0	1019-77-8
	856703-41-8	177969-64-1	88917-28-6	36614-72-9	1018-80-0
	847256-01-3	177969-63-0	88526-53-8	36614-69-4	635-89-2
	718638-73-4	177969-48-1	87630-23-7	36301-33-4	605-01-6
	675855-62-6	155887-85-7	87119-28-6	35384-03-3	
	344311-82-6	152602-23-8	36614-71-8	33039-80-4	
	340174-41-6	148426-07-7	36614-70-7	31173-90-7	

附录 21 多氯联苯 (PCBs)

序号	名称	CAS	序号	名称	CAS
1	clophen a 30 : a 60 1 : 1 八氯化萘	1336-36-3	18	pcb 1	11141-16-5
2	2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	19	2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9
3	2,2',3,4,4',5',6-PCB	52663-69-1	20	2,2',3,3'-Tetrachlorobiphenyl	38444-93-8
4	2,2',4,5-tetrachlorobiphenyl	70362-47-9	21	4-Chlorobiphenyl	2051-62-9
5	2,2',3,4',5,5',6-PCB	52663-68-0	22	2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2
6	2,2',3,3',6,6'-hexachlorobiphenyl	38411-22-2	23	2,3',4,4',5-PCB	31508-00-6
7	2,3',4-Trichlorobiphenyl	55712-37-3	24	Decachlorobiphenyl	2051-24-3
8	2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	25	PCB-153	35065-27-1
9	2,3,3',4,4',5,5'-PCB	39635-31-9	26	2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4
10	2,2',3,3',4,5,6,6'-PCB	52663-73-7	27	2,2',3',4,6-Pentachlorobiphenyl	60233-25-2
11	2,2',3,4,5,5'-hexachlorobiphenyl	51908-16-8	28	pcb 1	2051-60-7
12	2,2',3,5'-PCB	41464-39-5	29	2,2',3,3',4-pentachlorobiphenyl	52663-62-4
13	2,2'-DICHLOROBIPHENYL	13029-08-8	30	2,3',6-Trichlorobiphenyl	38444-76-7
14	2,3,3',4,4',5-PCB	38380-08-4	31	2,3,6-trichlorobiphenyl	55702-45-9
15	4,4'-PCB	2050-68-2	32	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9
16	AROCHLOR 1232	11100-14-4	33	3,4,4'-PCB	38444-90-5
17	AROCHLOR 1232	37324-23-5	34	2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3

附录 22 持久性有机污染物 (POPs)

序号	名称	CAS	序号	名称	CAS
1	六溴联苯	59080-40-9 36355-01-8 182677-30-1 60044-26-0 59261-08-4 37680-66-3	10	六氯环己烷 (林丹)	58-89-9 319-84-6 319-85-7 608-73-1 959-98-9 33213-65-9
2	五氯苯	608-93-5	11	异狄氏剂 Endrin	72-20-8

3	六氯苯	118-74-1	12	七氯 Heptachlor	76-44-8
4	五氯苯酚及其盐类和酯类 Pentachlorophenol and its salts and esters	87-86-5 等	13	毒杀芬 Toxaphene	8001-35-2
5	三氯杀螨醇 Dicofol	115-32-2	14	灭蚊灵 Mirex	2385-85-5
6	氯丹 Chlordane	57-74-9	15	十氯酮 Chlordecone	143-50-0
7	滴滴 DDT (1,1,1-三氯-2,2-双(4-氯苯基)乙烷)	50-29-3	16	硫丹 Endosulfan	115-29-7 959-98-9 33213-65-9
8	艾氏剂 Aldrin	309-00-2	17	六氯丁二烯 Hexachlorobutadiene (HBCD)	87-68-3
9	狄氏剂 Dieldrin	60-57-1			

附录 23 全氟丁烷磺酸盐 (PFBS) 及其盐类和相关物质

物质名称 (中文)	物质名称 (英文)	简称	CAS 号
全氟丁基磺酸	Perfluorobutane sulfonic acid	PFBS	375-73-5
全氟丁基磺酸钾	Perfluorobutanesulfonate K-salt	PFBS-K	29420-49-3
全氟丁基磺酸水合物	Perfluorobutane sulfonic acid hydrate	PFBS-H ₂ O	59933-66-3
全氟丁基磺酰氟	1-Butanesulfonyl fluoride, 1,1,2,2,3,3,4,4,4-nonafluoro-	PFBSF	375-72-4
全氟丁基磺酸四乙基铵	N,N,N-Triethyl-1-[(1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonyl)oxy]ethan-1-aminium	PFBS-N(CH ₃ CH ₂) ₄	25628-08-4
1,1,2,2,3,3,4,4,4-九氟-N-(2-羟乙基)-N-甲基丁烷-1-磺酰胺	1,1,2,2,3,3,4,4,4-Nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulfonamide	N-Et-N-Me-FBSA	34454-97-2
全氟丁基磺酰氯	Nonafluoro-1-butan sulfonyl chloride	PFBSCl	2991-84-6
全氟丁基磺酰胺	Perfluorobutylsulphonamide	FBSA	30334-69-1
全氟丁基磺酸锂	lithium perfluorobutanesulfonate	PFBS-Li	131651-65-5
全氟丁基磺酸铵	Ammonium perfluorobutanesulfonate	PFBS-NH ₄	68259-10-9
全氟丁基磺酸镁	Magnesium perfluorobutanesulfonate	PFBS-Mg	507453-86-3
全氟丁基磺酸钠	Sodium perfluorobutanesulfonate	PFBS-Na	60453-92-1

附录 24 全氟羧酸 (PFCAs, C₉-C₁₄) 及其盐类和相关物质

物质名称 (中文)	物质名称 (英文)	简称	CAS 号
1H,1H,2H,2H-全氟-1-癸醇	1H,1H,2H,2H-perfluoro-1-decanol	8:2 FTOH	678-39-7
1H,1H,2H,2H-全氟癸磺酸	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid	8:2 FTS	39108-34-4
丙烯酸 1H,1H,2H,2H-十七氟癸酯	1,1,2,2-Tetrahydroperfluorodecyl acrylate	8:2 FTAC	27905-45-9
2-(全氟辛基)乙基甲基丙烯酸酯	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester	8:2 FTMA	1996-88-9
1H,1H,2H,2H-全氟癸基三乙氧基硅烷	1H,1H,2H,2H-Perfluorodecyltriethoxysilane	PFSI	101947-16-4
1-碘-1H,1H,2H,2H-全氟癸烷	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluoro-10-iodo-	8:2 FTI	2043-53-0
双(2-(全氟乙基))磷酸	8:2 Fluorotelomer phosphate diester	8:2diPAP	678-41-1

全氟十一烷酸	Perfluoroundecanoic acid	PFUnDA	2058-94-8
全氟十二烷酸	Perfluorododecanoic acid	PFDoDA	307-55-1
全氟十三烷酸	Perfluorotridecanoic acid	PFTTrDA	72629-94-8
全氟十四烷酸	Perfluorotetradecanoic acid	PFTeDA	376-06-7
全氟癸烷磺酸	henicosafuorodecanesulphonic acid	PFDS	335-77-3, 126105-34-8
全氟壬酸	Perfluorononanoic acid	PFNA	375-95-1
全氟癸酸	Perfluorodecanoic acid	PFDA	335-76-2
全氟-3,7-二甲基辛酸	Perfluoro-3,7-dimethyloctanoic acid	PF-3,7-DMOA	172155-07-6
四丁基磷 2H,2H-全氟癸酸酯	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate	H2PFDA-P(C4H9)4	882489-14-7
2H,2H,3H,3H-全氟十一酸	2H,2H,3H,3H-Perfluoroundecanoic acid	H4PFUnA	34598-33-9
全氟癸烷磺酸钠	Perfluorodecanesulfonate NA-salt	PFDS-Na	2806-15-7
全氟癸烷磺酸钾	Perfluorodecanesulfonate K-salt	PFDS-K	2806-16-8
全氟壬酸钠	Sodium heptadecafluorononanoate	PFNA-Na	21049-39-8
全氟壬酸铵	Perfluorononanoate ammonium salt	PFNA-NH4	4149-60-4
全氟癸酸钠	Sodium nonadecafluorodecanoate	PFDA-Na	3830-45-3
1H,1H,2H,2H-全氟-1-十二醇	1H,1H,2H,2H-Perfluoro-1-dodecanol	10:2 FTOH	865-86-1
1H,1H,2H,2H-全氟十二烷基丙烯酸酯	1H,1H,2H,2H-Tetrahydroperfluorododecyl acrylate	10:2 FTA	17741-60-5
全氟癸酸铵	Perfluorodecanoate ammonium salt	APFDA	3108-42-7
全氟癸烷磺酸铵	Ammonium henicosafuorodecanesulphonate	PFDS-NH4	67906-42-7
2H,2H-全氟癸酸	2H,2H-Perfluorodecanoate	H2PFDA	27854-31-5
1H,1H,2H,2H-全氟十二烷磺酸	1H,1H,2H,2H-Perfluorododecanesulphonic acid	10:2FTS	120226-60-0
全氟十二烷酸铵	Ammonium tricosafuorododecanoate	PFDoDA-NH4	3793-74-6
1-碘全氟癸烷	Perfluorodecyl iodide	PFDI	423-62-1
1-碘全氟十二烷	Perfluorododecyl iodide	PFDoI	307-60-8
1H,1H,2H,2H-全氟十二烷基碘	1H,1H,2H,2H-perfluorododecyl iodide	10:2FTI	2043-54-1
1H,1H,2H,2H-全氟十四烷基碘	1H,1H,2H,2H-perfluorotetradecyl iodide	12:2FTI	30046-31-2
2-(全氟癸基)乙基甲基丙烯酸酯	2-(Perfluorodecyl)ethyl methacrylate	10:2FTMA	2144-54-9
1H,1H,2H,2H-全氟-1-十四烷醇	1H,1H,2H,2H-perfluorotetradecan-1-ol	12:2 FTOH	39239-77-5
全氟-1-壬烷磺酸钠	Sodium Perfluoro-1-nonanesulfonate	PFNSNa	98789-57-2
全氟-1-十二烷磺酸钠	Sodium perfluoro-1-dodecanesulfonate	PFDoDSNa	1260224-54-1
全氟辛基乙烯	1-Decene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-	PFOE	21652-58-4
全氟-1-十一烷磺酸钠	Sodium perfluoro-1-undecanesulfonate	PFUnS-Na	—
全氟-1-十三烷磺酸钠	Sodium perfluorotridecanesulfonate	PFTTrDS-Na	174675-49-1
全氟-1-十三烷磺酸	Perfluorotridecanesulfonic acid	PFTTrDS	791563-89-8
全氟壬烷磺酸	Perfluorononane sulfonic acid	PFNS	68259-12-1

全氟十一烷磺酸	Perfluoroundecane sulfonic acid	PFUnS	749786-16-1
全氟壬酸钾	Potassium perfluorononanoate	PFNA-K	21049-38-7
全氟-1-十二烷磺酸	perfluorododecanesulfonic acid	PFDDoS	79780-39-5
二十一氟十二烷基磷酸二氢酯	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-henicosafuorododecyl dihydrogen phosphate	10:2 monoPAPS	57678-05-4
二十一氟十二烷基磷酸二氢酯环己铵盐	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-Henicosafuorododecyl dihydrogen phosphate cyclohexylamine	-	2514858-66-1
3-(全氟辛基)丙酸钾	Potassium 3-(perfluorooctyl)propanoate	H4PFUnA-K	83310-58-1
双(2-(全氟乙基))磷酸钠	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate	8:2diPAP-Na	114519-85-6
全氟壬基磺酸铵	Ammonium perfluorononanesulfonate	PFNS-NH4	17202-41-4
全氟十一烷酸钠	Sodium perfluoroundecanoate	PFUnDA-Na	60871-96-7
全氟十一烷酸铵	Ammonium perfluoroundecanoate	PFUnDA-NH4	4234-23-5
全氟十一烷酸钾	Potassium perfluoroundecanoate	PFUnDA-K	30377-53-8
全氟壬酸银	Silver perfluorononanoate	PFNA-Ag	7358-16-9
全氟癸酸钾	Potassium perfluorodecanoate	PFDA-K	51604-85-4
全氟癸酸银	Silver perfluorodecanoate	PFDA-Ag	5784-82-7
全氟癸酸锂	Lithium perfluorodecanoate	PFDA-Li	84743-32-8
全氟十二烷酸钠	Sodium perfluorododecanoate	PFDODA-Na	60872-01-7
全氟十三烷酸铵	Ammonium perfluorotridecanoate	PFTTrDA-NH4	4288-72-6
全氟壬酸锂	Lithium heptadecafluorononanoate	PFNA-Li	60871-92-3
十七氟-1-癸醇磷酸二氢酯	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl dihydrogen phosphate	8:2 monoPAPS	57678-03-2
2H-全氟-2-十二烯酸	2H-Perfluoro-2-dodecenoic acid	10:2FTUCA	70887-94-4
1H,1H,2H,2H-全氟癸磺酸铵	8:2 Fluorotelomer sulfonate ammonium salt	8: 2FTS-NH4	149724-40-3
1H,1H,2H,2H-全氟癸磺酸钠	1H,1H,2H,2H-Perfluorodecanesulfonic Acid Sodium	8: 2FTS-Na	27619-96-1
双(2-(全氟乙基))磷酸铵	Ammonium bis(1H,1H,2H,2H-perfluorodecyl)phosphate	8:2diPAP-NH4	93776-20-6
全氟十一烷酸钙	Calcium perfluoroundecanoate	PFUnDA-Ca	97163-17-2
全氟癸基膦酸	perfluorodecylphosphonic acid	PFDPa	52299-26-0
2H,2H-全氟十二酸	2H,2H-Perfluorododecanoic acid	10:2FTCA	53826-13-4
1H,1H,2H,2H-全氟十二烷磺酸钠	1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium	10:2 FTS-Na	108026-35-3

附录 25 全氟己酸 (PFHxA) 及其盐类和相关物质

物质名称 (中文)	物质名称 (英文)	简称	CAS 号
全氟己酸	Perfluorohexanoic acid	PFHxA	307-24-4
1H,1H,2H,2H-全氟辛磺酸	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid	6:2FTS	27619-97-2
1H,1H,2H,2H-全氟-1-辛醇	1H,1H,2H,2H-Perfluoro-1-octanol	6:2 FTOH	647-42-7
1H,1H,2H,2H-全氟辛醇丙烯酸酯	1H,1H,2H,2H-Perfluoro octyl acrylate	6:2 FTA	17527-29-6

全氟己酸铵	Ammonium perfluorohexanoate	PFHxA-NH ₄	21615-47-4
1H,1H,2H,2H-全氟辛基甲基丙烯酸酯	1H,1H,2H,2H-Perfluorooctyl methacrylate	6:2 FTMAC	2144-53-8
2-全氟己基乙酸	2-Perfluorohexyl ethanoic acid	6:2 FTCA	53826-12-3
3-全氟戊基丙酸	3-Perfluoropentyl propanoic acid	5:3 FTCA	914637-49-3
全氟己酸钾	Hexanoic acid, undecafluoro-, potassium salt	PFHxA-K	3109-94-2
全氟己酸钠	sodium undecafluorohexanoate	PFHxA-Na	2923-26-4
三氯(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)硅烷	Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane	FOTS	78560-45-9
全氟己基乙烯	(Perfluorohexyl)ethylene	PFHE	25291-17-2
全氟己酸银	Silver perfluorohexanoate	PFHxA-Ag	336-02-7
全氟己酸锂	Lithium perfluorohexanoate	PFHxA-Li	90430-61-8

附录 26 全氟己烷磺酸盐 (PFHxS) 及其盐类和有关物质

物质名称 (中文)	物质名称 (英文)	简称	CAS 号
全氟己基磺酸	Perfluorohexanesulfonic acid	PFHxS	355-46-4
全氟己基磺酸钠	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt	PFHxS-Na	82382-12-5
全氟己基磺酸钾	Potassium perfluorohexane-1-sulphonate	PFHxS-K	3871-99-6
全氟己基磺酸铵	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt (1:1)	PFHxS-NH ₄	68259-08-5
全氟己基磺酸锂	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1)	PFHxS-Li	55120-77-9
全氟己基磺酸锌	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt	PFHxS-Zn	70136-72-0
全氟己基磺酰胺	1-Hexane-sulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	PFHxSA	41997-13-1
全氟己基磺酰氟	1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	PFHxSF	423-50-7
N-甲基全氟己烷磺酰胺	n-methylperfluorohexanesulfonamide	MeFHxSA	68259-15-4
全氟己基磺酸镓盐(9CI)	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)	PFHxS-Ga	341035-71-0
全氟己基磺酸钪盐 (3:1)	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1)	PFHxS-Sc	350836-93-0
全氟己基磺酸钕盐 (3:1)	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1)	PFHxS-Nd	41184-65-0
全氟己基磺酸钇盐 (3:1)	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1)	PFHxS-Y	41242-12-0
全氟己基磺酸铯	Cesium Perfluorohexanesulfonate	PFHxS-Cs	92011-17-1

RoHS 豁免清单 (仅列举了我公司产品适用的豁免项)

物质名称	条款	豁免	截止日期
铅及其化合物	6(a)-I	机械加工中用作合金的钢, 铅含量不超过 0.35% (Wt), 批热处理镀锌钢组件中的铅含量不超过 0.2% (Wt)	已申请延期
	6(b)-I	回收的含铅废铝里面, 铅作为合金元素含量不超过 0.4% (Wt)	
	6(b)-II	用于机械加工目的的铝, 铅作为合金元素含量不超过 0.4% (Wt)	
	6(c)	铜合金中的铅含量不应该超过 4% (Wt)	
	7(a)	高温熔融材料中的铅 (即: 铅合金中铅含量≥85% (Wt))	
	7(c)-I	电气电子元件的玻璃或陶瓷中的铅, 电容器的介电陶瓷除外, 如压电玻璃或陶瓷装置	

	7(c)-II	额定电压 125V AC 或者 250V DC 或更高的电容器的介电陶瓷中的铅	已申请延期
	7(c)-IV	集成电路或分立式半导体的电容器部件中使用的 PZT 介电陶瓷材料中的铅	
	13(a)	光学应用的白色玻璃中的铅	已申请延期
	24	通孔盘状及平面阵列陶瓷多层电容器焊料所含的铅	
	29	理事会第 69/493/EEC *号指令附件 I(第 1、2、3 和 4 类)所界定的水晶玻璃中的铅	
	32	窗体装配中, 用于氩和氦激光管的密封玻璃中的氧化铝	
	34	金属陶瓷质的微调电位器元件中的铅	
镉及其化合物 (笔电产品不适用)	37	以硼酸锌玻璃体为基材的高压二极管的电镀层的铅	已申请延期
	8(b)-I	电气触点中的镉及镉化合物用于: - 断路器 - 热感应控制 - 热马达保护器(不包括密封式热马达保护器); - 交流开关额定在: - 6A 及以上在 250V 交流电及以上;或 - 12A 及以上在 125V 交流电及以上; - 直流开关额定在 20A 及以上在 18V 及以上; 以及 - 电压电源频率≥200 Hz 使用的开关"	已申请延期
	13(b)-II	光学滤光玻璃中的镉; 不包括本附件第 39 条款中的设备	
	13(b)-III	反射标准片中釉料中的镉和铅	
	39(a)	用于显示照明设备中降低镉基半导体纳米量子点的硒化镉 (显示屏面积小于 0.2ug/mm2)	
汞及其化合物 (笔电产品不适用)	1(a)	小于30W的普通照明用灯中每盏Hg含量不超过2.5mg	2023 年 2 月 24 日到期
	1(b)	30-50W的普通照明用灯中每盏Hg含量不超过3.5mg	
	1(c)	50-150W的普通照明用灯中每盏Hg含量不超过5.0mg	
	1(d)	大于150W的普通照明用灯中每盏Hg含量不超过15mg	
	1(f)-I	对于主要发射紫外光谱光的灯具中每盏Hg含量不超过5mg	2027 年 2 月 24 日到期
	4(e)	金属卤化物灯(MH)中的汞	2027 年 2 月 24 日到期
	4(f)-III	园艺照明用高压钠蒸汽灯中的汞	2027 年 2 月 24 日到期
	4(f)-IV	发出紫外光谱的灯中的汞	2027 年 2 月 24 日到期

1. Preamble

Huaqin Technology Co., Ltd. ("Huaqin Technology" or "the Company") has established internal Hazardous Substance Control Standards and associated management protocols. These standards implement stratified chemical substance management across designed and manufactured products, integrated throughout product development, procurement, and quality assurance processes. The Company engages proactively with suppliers, partners, and stakeholders to ensure regulatory compliance and conformance with customer specifications, thereby mitigating risks to human health and environmental safety.

This document defines control thresholds, applicability, and administrative requirements pertaining to prohibited, restricted, and declarable substances/compounds/materials in products, components, and manufacturing processes utilized by Huaqin Technology.

Ongoing Compliance Obligations:

The substances listed herein do not represent all chemicals of concern. Huaqin Technology and its suppliers are responsible for proactively understanding:

All chemicals used in manufacturing processes; Potential health and environmental impacts of chemicals contained in supplied components/materials. We require Huaqin Technology and all suppliers to prioritize reduction or elimination of listed substances and strictly comply with all applicable regulations.

Extended Governance Parameters:

In addition to explicitly regulated substances, Huaqin Technology exercises due diligence regarding chemicals impacting quality, safety, and human rights considerations (e.g., conflict minerals, red phosphorus). Suppliers may be required to furnish supplementary investigative documentation or Declarations of Conformity (e.g., substance-specific disclosures or formal compliance attestations) upon request.

2. Purpose and scope

This standard aligns with global regulations and industry requirements (including but not limited to China RoHS, EU RoHS Directive, and REACH Regulation) and addresses Huaqin's customer specifications. It applies to all Huaqin finished products, materials, after-sales spare parts, and their packaging, including electronic/structural components, packaging materials, and auxiliary supplies.

Huaqin Technology is responsible for ensuring all materials, components, final products, packaging, and manufacturing inputs comply with relevant environmental regulations and this standard.

Effective Date: July 14, 2025.

3. Terms, definitions

- 3.1** Homogeneous material: material that cannot be mechanically disassembled (cut, crushed, ground), such as metals, plastics, ceramics, solders, glues, coatings.
- 3.2** HS: Hazardous Substance, including, but not limited to, those listed in the company document Hazardous Substance Control Standards.
- 3.3** HSF: Hazardous substances free.
- 3.4** ppm: one millionth. The substance content involved in this standard is represented by the

ppm value converted from the ratio of the weight of the substance contained in the parts to its own weight.

3.5 MSDS: Material Safety Data Sheet.

3.6 Test report: the Environmental Protection Test Report obtained after the environmental protection test of materials or materials, which shall be issued by a qualified testing institution or laboratory (ISO/IEC17025).

3.7 Components or materials that contact human skin for a long time: components or materials that contact human skin for more than 30 s under normal use scenarios.

3.8 HQ Policy: Huaqin strictly controls the control limit. When the control limit is exceeded, the standards in the hazardous substance control specification of the specific project shall be taken as the basis for judgment.

3.9 Declared use: for the substances required to be declared according to the regulations or as defined by Huaqin, the supplier partner shall notify Huaqin to declare before use.

3.10 Restricted substance: a substance whose presence is prohibited or which must be present in an amount below a specified maximum limit.

3.11 ND must not be intentionally added: Not Detected, meaning it is below the laboratory's method detection limit and must not be intentionally added to achieve a specific function.

3.12 Prohibited use: The substance shall not be added intentionally or unintentionally, nor shall it be detected by the current or specified analytical method (i.e., the detection value shall not be higher than detection limit).

3.13 Definition of environmental protection attribute of the project:

Environmental protection attributes of the project	Applicable items	Directives and regulations	Remark
Grade I (halogen-free EU environmental protection)	Customer projects with halogen free requirements (EU, America, Korea or global shipping projects)	Must meet HF (halogen-free) + EU RoHS2.0 + REACH + Battery Directive + Packaging Directive + WEEE Regulation Directive + POPs Convention, etc. (See Chapter 3 Regulatory Standards for details)	Must meet requirements for Class ABC substances
Class II (EU Environmental Protection)	Customer projects without halogen free requirements (EU, America, Korea or global shipping projects)	Must meet the requirements of EU RoHS2.0 + REACH + Battery Directive + Packaging Directive + WEEE Regulation Directive + POPs Convention, etc. (See Chapter 3. Regulatory Standards for details)	Requirements for Class AB substances must be met
Class III (EU Environmental Protection)	Data service customer projects without halogen free requirements (EU, America, Korea or global shipping projects)	Must meet EU RoHS 2.0 + REACH Battery Directive Packaging Directive + WEEE Regulation Directive + POPs Convention, etc. (See Chapter 3 Regulatory Standards for details)	Must meet requirements for Class A substances

4. Regulatory standards

4.1 List of restricted substances

Class A substances: Banned, restricted and declared substances regulated by global regulations (see appendix for exemption terms)

Serial number	Name of substance	CAS number	Limit/ppm	Scope of application	Refer to the regulations	Compliance basis
1	Lead and its compounds (Pb)	7439-92-1, etc.	40	Battery unit and battery pack	[EU] Battery Regulations 2023/1542; [China] Content limitation of mercury, cadmium and lead for zinc anode primary battery GB24427-2021	
			50	Plastics, coatings, glues, cables, leather, earplugs, phone covers, displays (including covers, wiring and printed circuit boards)	IEEE 1680.1-2018; [USA] Consumer Product Safety Improvement Act (CPSIA) of 2008 PUBLIC LAW 110-314; [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65); [Korea (the Republic of)] Electrical Appliances and Consumer Products Safety Control Act; [USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB575	
			1	Natural and synthetic fibres, textiles, leather, wear products and accessories	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	
			100(Pb+Cd+Hg+ Cr6+)	Packaging materials	[EU] Packaging Directive 94/62/EC	
			1000	All other materials not covered by the RoHS exemption	[EU] RoHS Directive 2011/65/EU; [China] GB/T 26572; Taiwan BSMI RoHS	
2	Cadmium and its compounds (Cd)	7440-43-9, etc.	10	Battery unit and battery pack	IEEE 1680.1-2018; [EU] Battery Regulations 2023/1542; [Korea (the Republic of)] Quality Management and Manufactured Product Safety Management Law (Battery Regulation); [Korea (the Republic of)] Consumer Protection Law	MSDS Test report
			1	Natural and synthetic fibres, textiles, leather, wear products and accessories	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	
			100(Pb+Cd+Hg+ Cr6+)	Packaging materials	[EU] Packaging Directive 94/62/EC	
			50	All other materials	[EU] RoHS Directive 2011/65/EU; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [China] GB/T 26572; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; Taiwan BSMI RoHS; [USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB575; [Korea (the Republic of)] Electrical Appliances and Consumer Products Safety Control Act	
3	Mercury and its compounds (Hg)	7439-97-6, etc.	ND and must not be intentionally added	All batteries	[EU] Battery Regulations 2023/1542; [Canada] Products containing Mercury Regulations SOR/2014-254; [China] Content limitation of mercury, cadmium and lead for zinc anode primary	

					battery GB24427-2021; [Taiwan (Province of China)] Restrictions on the Manufacture, Import, and Sale of Dry Cell Batteries; [Korea (the Republic of)] Quality Management and Manufactured Product Safety Management Law (Battery Regulation); [USA New York] Environmental Conservation Law, Battery management and disposal § 27-0719; US Public Law 104-142
			ND and must not be intentionally added	Switches and relays	The Minamata Convention on Mercury (EU)2017/852
			100(Pb+Cd+Hg+Cr6+)	Packaging materials	[EU] Packaging Directive 94/62/EC
			1000	All other materials	IEEE 1680-1; [China] GB/T 26572; [EU] RoHS Directive 2011/65/EU and its Amendments; [USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB575 Taiwan BSMI RoHS
4	Hexavalent chromium compound (Cr6 +)	18540-29-9, etc.	1	Natural and synthetic fibres, textiles, wear products and accessories	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			3	Leather	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; Taiwan BSMI RoHS
			ND	Metal coating	[China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products;
			100	Video display devices with a screen size greater than 4 inches	[USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB575
			100(Pb+Cd+Hg+Cr6+)	Packaging materials	[EU] Packaging Directive 94/62/EC
			500	All other materials	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [China] GB/T 26572; Taiwan BSMI RoHS
5	Polybrominated biphenyls (PBBs) (excluding hexabromobiphenyl)	59536-65-1, etc.	1000	All materials	[EU] RoHS Directive 2011/65/EU; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources
6	Hexabromobiphenyl	36355-01-8	1000	All materials	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021
7	Polybrominated diphenyl ethers (PBDEs)	1163-19-5, etc.	500 ppm (sum)	All materials	[EU] Persistent Organic Pollutants (POPs) Regulation (EC)

					No.2019/1021; [EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [USA] Toxic Substances Control Act (TSCA); Australian Industrial Chemicals Environmental Management Standard (ICChEMS)	
8	Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	1000ppm (sum of DEHP, BBP, DBP, DIBP)	All materials	[EU] RoHS Directive 2011/65/EU; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Consumer Product Safety Improvement Act (CPSIA) of 2008 PUBLIC LAW 110-314; [Korea (the Republic of)] Electrical Appliances and Consumer Products Safety Control Act	
9	Dibutyl phthalate (DBP)	84-74-2				
10	Benzyl butyl phthalate (BBP)	85-68-7				
11	Diisobutyl phthalate (DIBP)	84-69-5				
12	Phthalates (except DEHP/DBP/BBP/D IBP)	See Appendix 1	100ppm (sum)	Packaging materials	TPCH	MSDS Test report
			1000 ppm (sum)	All materials	[USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65); [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; 2011/65/EU	
		28553-12-0 68515-49-1 26761-40-0 117-84-0	1000 ppm (sum of DINP, DIDP, DNOP)	Importable children's toys and parts	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Consumer Product Safety Improvement Act (CPSIA) of 2008 PUBLIC LAW 110-314	
13	Organotin compounds	See Appendix 6	Sum 1000 ppm (as Sn)	All materials	[EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS Test report
14	Arsenic and its compounds	7440-38-2	1	Clothing and related accessories, leather, textile fibres, wood products	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	MSDS
		Arsenic Pentoxide/Arsenic Trioxide 1303-28-2 1327-53-3	1000	LCD panel glass (including cover glass, touch screen and backlight)	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XIV	MSDS Test report
15	Nickel	7440-02-0	0.5µg/cm2/week	Metal appearance parts in direct and long-term contact with the skin, such as middle frame, card holder, keys, and camera decorative parts	[EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS Test report
16	Asbestos fiber	1332-21-4 12001-28-4 12001-29-5 12172-73-5 77536-66-4 77536-67-5 77536-68-6 132207-32-0	ND and must not be intentionally added	All materials	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XIV	MSDS
17	Hexabromocycloclodo decane (HBCDD)	3194-55-6 25637-99-4 134237-50-6 134237-52-8 134237-51-7	75	All materials	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic	Test report MSDS

					Pollutants (POPs) Regulation (EC) No.2019/1021; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [EU] Draft Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021	
18	Short chain chlorinated paraffins (SCCP)	85535-84-8, etc.	1000	All materials	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021;	Test report MSDS
19	Benzene	71-43-2	ND and must not be intentionally added	Ink	GB 38507-2020	MSDS
20	Polychlorinated biphenyls (PCBs)	1336-36-3, etc. See Appendix 21	ND and must not be intentionally added (detection limit < 0.1 ppm)	All materials	85/467/EEC CRS 001/1983, Brazil [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021; [USA] Toxic Substances Control Act (TSCA); [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; Asahi requirement	MSDS
21	Polychlorinated terphenyls and their derivatives (PCTs)	61788-33-8	ND and must not be intentionally added	All materials	[Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS
22	Polychlorinated naphthalenes (PCNs)	70776-03-3 1321-64-8 1335-87-1 1335-88-2 32241-08-0	ND and must not be intentionally added	All materials	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021; [Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	MSDS
23	Azo dye and azo colorants, aromatic amine, anilines,	See Appendix 4	30	Textiles or leather products in direct or prolonged contact with the skin or mouth	[EU] REACH Regulation (EC)1907/2006 Annex XVII; [China] GB 18401-2010; [China] GB 20400-2006	MSDS
			1000	Textile or leather dyestuff		
24	Carcinogenic and allergenic dyes	See Appendix 11	ND and must not be intentionally added	Textiles, leather products Long-term contact with human skin parts such as mobile phone protective shell	OEKO-TEX Standard 100	Test report, MSDS
25	Alkylphenol compound	1319-77-3 95-48-7 108-39-4 106-44-5 88-69-7	10	All materials	Canadian Environmental Protection Act, 1999	MSDS
26	Polycyclic aromatic hydrocarbons (PAHs)	See Appendix 10	Individual species (BaP; BeP; BaA; BbFA; BjFA; BkFA; CHR; DBAaA; Benzo [G, H, I] perylene; Indeno [1,2,3-cd] pyrene) < 0.2 ppm; Total 18 PAHs < 1 ppm	Category 1: Materials that can be placed in the mouth, or toy materials that are expected to be in contact with the skin for a long time (more than 30 seconds) Children's products Materials that are in contact with the skin for a long time (more than 30 seconds)	[EU] REACH Regulation (EC)1907/2006 Annex XVII; AFS-GS-2014-01-PAK-EN; Ten ring certification requirements	Test report, MSDS Remarks: The non-metallic appearance parts in contact with the skin shall be strictly controlled according to the GS regulations. The finished products shall be sent to the third party, and the third party shall scrape the samples from the finished products for testing (if the
			Individual species (BaP; BeP; BaA; BbFA; BjFA; BkFA; CHR; DBAaA; Benzo [G, H, I] perylene; Indeno [1,2,3-cd] pyrene) < 0.5 ppm; Naphthalene<2 ppm; The total amount of 18 PAHs was < 10 ppm.	Category 2: Materials not included in Category 1 that are expected to be in contact with skin for more than 30 seconds or that are in contact with skin repeatedly for a short period of time		
			Products (including active and passive direct contact) for use by			

			children (< 14 years) Individual substances (BaP; BeP; BaA; BbFA; BjFA; BkFA; CHR; DBAhA; Benzo [G, H, I] perylene; Indeno[1,2,3- cd]pyrene)<0.2ppm; Naphthalene<2 ppm; The total amount of 18 PAHs was < 5 ppm.			coating weight is less than 50mg according to the GS regulations, it can be tested together with the substrate).
			Individual species (BaP; BeP; BaA; BbFA; BjFA; BkFA; CHR; DBAhA; Benzo [G, H, I] perylene; Indeno [1,2,3-cd] pyrene) < 1 ppm; Naphthalene<10 ppm; Total 18 PAHs < 50 ppm			
			Products (including active and passive direct contact) for use by children (< 14 years) Individual substances (BaP; BeP; BaA; BbFA; BjFA; BkFA; CHR; DBAhA; Benzo [G, H, I] perylene; Indeno[1,2,3- cd]pyrene)<0.5ppm; Naphthalene<10ppm; The total amount of 18 PAHs was < 20 ppm.	Category 3: Materials not included in categories 1 and 2, intended to be in contact with the skin for a period of time not exceeding 30 seconds (short-term contact)		
27	Bisphenol A (BPA)	80-05-7	200	Thermal paper	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65); France Food contact EU Food Contact Material; EU Toy WA CSPA	MSDS
			Migration ≤ 0.04mg/L	Children's toys		
			300	Skin contact products		
			ND and must not be intentionally added	Food contact products		
			1000	All other materials		
28	PIP (3:1) Isopropylated triphenyl phosphate	68937-41-7	ND and must not be intentionally added	All materials	[USA] Toxic Substances Control Act (TSCA)	MSDS
29	2,4,6-Tri-tert- butylphenol (2,4,6- TTBP)	732-26-3	1000	All materials	[USA] Toxic Substances Control Act (TSCA); [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation	MSDS
30	Pentachlorothiophe nol (PCTP)	133-49-3	10000	All materials	[USA] Toxic Substances Control Act (TSCA)	MSDS
31	Hexachlorobutadien e (HCBD)	87-68-3	ND and must not be intentionally added	All materials	[USA] Toxic Substances Control Act (TSCA)	MSDS
32	Radioactive material	7440-61-1 10043-92-2 14596-10-2 7440-29-1 10045-97-3 10098-97-2 7440-35-9 7440-46-2 7440-07-5 7440-24-6 7440-29-1	ND and must not be intentionally added	All materials	Japanization review law; EU Directive 2013/59/EURATOM	MSDS
33	Ozone depleting substances (CFC, Halon, HBFC, HCFC & others) and fluorinated greenhouse gases (PFC, SF6, HFC)	See Appendix 18	Prohibited use	All materials	National Environmental Protection Standards of the People's Republic of China and Montreal Protocol [EU] REGULATION No 517/2014 on fluorinated greenhouse gases; [EU] Regulation on substances that deplete the ozone layer (EC) No. 1005/2009; [Japan] Law concerning the Protection of the Ozone Layer through the Control of Specified Substances and	MSDS

					Other Measures; [USA] Clean Air Act; (Treaty) Montreal Protocol on Substances that Deplete the Ozone Layer [USA] Internal Revenue Code Title 26	
34	Killing agent (Toxaphene, Mirex, DDT, Endosulfan, etc.)	8001-35-2 2385-85-5 309-00-2 76-44-8 72-20-8 60-57-1 50-29-3 57-74-9 58-89-9 319-84-6 319-85-7 608-73-1 143-50-0 115-29-7 959-98-8 33213-65-9	ND and must not be intentionally added	Packaging and transportation materials	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021	MSDS
35	Formaldehyde	50-00-0	75 ppm	Textiles, leather products	[Austria] BGB I 1990/194: Formaldehyde Restriction§2,12/2/1990 [Lithuania] Hygiene Norm HN 96:2000 (Hygiene Norms and Regulations) [EU] REACH Regulation (EC)1907/2006 Annex XVII	Test report, MSDS
			0.1	Natural and synthetic fibers	[USA] Toxic Substances Control Act (TSCA)	
			0.05ppm (0.062 ml/m ³)	Furniture, wood products, adhesives, automotive products	[EU] REACH Regulation (EC)1907/2006 Annex XVII; Japanese law 112 ChemVerbotsV [China] GB 18401; [China] GB 20400; [China] GB/T 39600; [China] GB 18580; [China] GB 24311; US CARB ASTM	
			0.080mg/m ³	Other products	[EU] REACH Regulation (EC)1907/2006 Annex XVII	
36	Perchloric acid; Perchlorate compounds; Lithium perchlorate;	7601-90-3 14797- 73-0 7791-03-9 7790-98-9 10034-81-8 7778-74-7 7601-89-0	0.1 (sum)	All materials	[USA California] Perchlorate Contamination Prevention Act of 2003 AB 826	MSDS
			6ppb	All materials		
37	UV328: 2- (2 '- Hydroxy-3', 5 '-di- tert-pentylphenyl) benzotriazole	25973-55-1	ND and must not be intentionally added	All materials	The requirements of Japanization Review Law Eighteenth meeting of the Persistent Organic Pollutants Review Committee (POPRC.18)	MSDS
38	Clone of Dechloran A	13560-89-9 135821-03-3 135821-74-8	ND and must not be intentionally added	All materials	Eighteenth meeting of the Persistent Organic Pollutants Review Committee (POPRC.18), [Canada] Proposed Prohibition of Certain Toxic Substances Regulations, 2022	MSDS
39	Aromatic hydrocarbon mineral oil	See Appendix 20	< 1000 ppm in aromatic mineral oil with 1 to 7 aromatic rings	Packaging material ink	Circular Economy, Decree 2020-105 of the French Government	Test report
			< 1 ppm in aromatic mineral oil with 3 to 7 aromatic rings			

40	Saturated alkane mineral oil	See Appendix 20	< 1000 ppm in saturated hydrocarbon mineral oil with 16 to 35 carbon atoms	Packaging material ink	Circular Economy, Decree 2020-105 of the French Government	Test report
41	Persistent organic pollutants	See Appendix 22	ND and must not be intentionally added	All materials	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021	Test report, MSDS
42	Halogen flame retardant	--	F+Cl+Br+I<1000ppm	Plastic housings and stands for electronic displays, including televisions, monitors and digital signage displays with a screen area greater than 100 square centimeters, as well as labels, tapes, etc., attached to the plastic housings and stands; In the plastic housing of the gaming device;	[EU] Commission Regulation (EU) 2019/2021 laying down ecodesign requirements for electronic displays; [USA] State of New York: Regulation of Chemicals in Upholstered Furniture, Mattresses and Electronic Enclosures [EU] Energy Efficiency of Games Consoles Self Regulatory Initiative to further improve the energy efficiency of Games Consoles	Test report, MSDS
43	Perfluoro and polyfluoroalkyl compounds (PFAS)	--	ND and must not be intentionally added	Packaging materials	TPCH;	MSDS
			Contains a technical investigation of the substance and its application	All other materials	[USA] State of Maine: An Act to Stop Perfluoroalkyl and Polyfluoroalkyl Substances Pollution	MSDS
44	Perfluorooctane sulfonate (PFOS) and its derivatives	See Appendix 7	1ug/cm2	Leather, textile, coating	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021 [Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. [EU] Draft Persistent Organic Pollutants	MSDS Test report
			PFOS and its salts ≤ 25ppb Other PFOS related substances ≤ 1ppm	All materials	Industrial Chemistry Australia Product Environmental Management Standard (IChEMS) 2027 Review on July 1, 2006 EU 2019/1021 (POPs)	MSDS Test report
45	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related compounds	See Appendix 8	1ug/cm2	Leather, textile, coating	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021 Norway FOR-2004-06-01-922 oecd.org/officialdocuments/publicdisplaydocumentpdf/?doclanguage=en&cote=en/jm/mono(2006)15	MSDS Test report
			PFOA and its salts ≤ 25ppb Other PFOA related substances ≤ 1ppm	All materials		
46	Perfluorocarboxylic acids (PFCAs; C9-C14) and their salts and related substances	See Appendix 24	C9-C14 PFCAs and their salts < 25 ppb Other C9-C14 PFCAs and related substances < 260ppb	All materials	[EU] REACH Regulation (EC) No.2021/1297 ANNEX XVII; echa.europa.eu/document/s/10162/2ec5dfdd-0e63-0b49-d756-4dc1bae7ec61	MSDS Test report
47	Long-chain perfluorocarboxylic acids, salts thereof and precursors thereof (LCPFCAs)	See Appendix 5	ND and must not be intentionally added	All materials	[Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [EU] REACH Regulation (EC) No.2021/1297 ANNEX XVII; [Switzerland]Swiss ORRChem	MSDS
48	Perfluorohexanoic acid (PFHxA) and its salts and related substances	See Appendix 25	PFHxA and its salts < 25 ppb PFHxA and its related compounds < 1000 ppb	All materials	Substances to be added to REACH restrictions	MSDS Test report
49	Perfluorohexane sulfonate (PFHxS)	See Appendix 26	PFHxS and its salts < 25 ppb	All materials	[EU] Persistent Organic Pollutants (POPs)	MSDS Test report

	its salts and related substances		PFHxS and its related compounds < 1000 ppb		Regulation (EC) No.2019/1021 Official Limit Substance and Restriction Substance to be added	
50	Perfluorobutane sulfonate (PFBS), its salts and related substances	See Appendix 23	Sum < 1000ppm (investigation statement is required for exceeding)	All materials	www.miljodirektoratet.no/globalassets/publikasjoner/M759/M759.pdf	MSDS Test report
51	Conflict metals (gold (Au), tantalum (Ta), tin (Sn), and tungsten (W))	7440-57-5 (Au) 7440-25-7 (Ta) 7440-31-5 (Sn) 7440-33-7 (W)	Prohibition of the use of mines from the Congo	All materials	Conflict Metals Law in the United States	Conflict Minerals Questionnaire

EU RoHS 2.0: <https://eur-lex.europa.eu/eli/dir/2011/65/oj>

REACH Restricted Substance: <https://echa.europa.eu/substances-restricted-under-reach>

Battery Directive: <https://eur-lex.europa.eu/eli/dir/2006/66/oj>

Packaging Directive: <https://eur-lex.europa.eu/eli/dir/1994/62/oj>

California 65 List Substances: <https://oehha.ca.gov/proposition-65/proposition-65-list>

CPSIA: <https://www.cpsc.gov/Regulations-Laws--Standards/Statutes/The-Consumer-Product-Safety-Improvement-Act>

REACH SVHC Substance: <https://echa.europa.eu/candidate-list-table>

REACH Authorized Substances: <https://eur-lex.europa.eu/eli/reg/2020/171/oj>

POPs: <https://eur-lex.europa.eu/eli/reg/2019/1021/oj>

VOCs: <http://openstd.samr.gov.cn/bzgk/gb/newGbInfo?hcno=24B8F23569AAABB041D0F93A39F6519D>

<http://openstd.samr.gov.cn/bzgk/gb/newGbInfo?hcno=A203979981132906583AA272F71CD9B1>

<http://openstd.samr.gov.cn/bzgk/gb/newGbInfo?hcno=FE1FC015A8AC8E87F74085C3ADE06C3E>

<http://openstd.samr.gov.cn/bzgk/gb/newGbInfo?hcno=BEC525CEF58A6B3D25D125E166BDD515>

TSCA: <https://www.epa.gov/laws-regulations/summary-toxic-substances-control-act>

IEC62474 (EPEAT) Declarable Substance List: [HYPERLINK](https://std.iec.ch/iec62474/iec62474.nsf/Index?open&q=044904)

<https://std.iec.ch/iec62474/iec62474.nsf/Index?open&q=044904>

Washington State Chemical Checklist High Concern for Children (CHCC):

<http://apps.leg.wa.gov/WAC/default.aspx?cite=173-334-130>

Class B substance: special control substance for customers (industry standard, strict regulation substance, wearable control substance)

Serial number	Name of substance	CAS number	Limit/ppm	Scope of application	Refer to the regulations	Compliance basis
1	Lead and its compounds (Pb)	--	80(Pb+Cd+Hg+ Cr6+)	Packing	HQ Policy	Test report, MSDS
			ND and must not be intentionally added	Lead sulfate (CAS NO 7446-14-2), small sealed lead-acid battery		
			1000 (to be declared for use in excess)	Copper nut		
			2	More than 25 grams of plastic parts (for Taiwan green products)		
			500	Parts used in products in contact with skin/prolonged contact		
			800	All materials (except above)		
2	Cadmium and its compounds (Cd)	--	80(Pb+Cd+Hg+ Cr6+)	Packing	HQ Policy	Test report, MSDS
			20	Bonding solder		
			5	Plastics, printing ink and other organic substances		
			50	Inorganic substances such as metals		
			10	More than 25g plastic parts (applicable to Taiwan green products)		
			1	Parts or materials in direct or prolonged contact with the skin		
3	Mercury and its compounds (Hg)	--	80(Pb+Cd+Hg+ Cr6+)	Packing	HQ Policy	Test report, MSDS
			10	Surface coating		
			0.02	Textiles (long-term contact with human body)		
			10	More than 25g plastic parts (applicable to Taiwan green products)		
			3mg/lamp	CCFL backlight module		
			500	All materials (except above)		
4	Hexavalent chromium compound (Cr6 +)	--	80(Pb+Cd+Hg+Cr6+)	Packing	HQ Policy	Test report, MSDS
			ND and must not be intentionally added	Leather, textiles, metal plating, finishes and coatings, paints and resins		
			0.5	Polymer (synthetic leather, rubber, plastic, silicon)		
			1	Batteries, parts or materials in direct or prolonged contact with the skin		
			10	More than 25g plastic parts (applicable to Taiwan green products)		
			500	All materials (other than those listed above), EPEAT requirements		
5	Polybrominated biphenyl (PBBs)	59536-65-1, etc.	ND and must not be intentionally added	All materials	HQ Policy	Test report, MSDS
6	Polybrominated diphenyl ethers (PBDEs)	1163-19-5, etc.	10	Children's products, plastic parts larger than 25 G	HQ Policy	Test report, MSDS
			ND and must not be intentionally added	Leather, Textiles, EPS, HISP, XPS		
			500	Packaging materials, post-consumer plastic raw materials and post-consumer plastic resins		
			Individual PBDEs < 10 ppm Total PBDEs < 500 ppm	All materials (except above)		
7	Polybrominated biphenyl oxides (PBBOs)	--	1000	All materials	HQ Policy	MSDS
8	Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	800ppm (single)	All materials	HQ Policy	Test report, MSDS
9	Dibutyl phthalate (DBP)	84-74-2				Test report, MSDS
10	Benzyl butyl phthalate (BBP)	85-68-7				Test report, MSDS
11	Diisobutyl phthalate (DIBP)	84-69-5				Test report, MSDS
12	Phthalate esters	See Appendix 1	ND and must not be intentionally added	All materials (except metal and ceramic materials)	Regulation (EU) 1907/2006;	Test report, MSDS
		DIHP	1mg/L	Fibers in contact with skin. Fibers include natural and synthetic fibers.	HQ Policy	
		DIDP、DINP	ND and must not be intentionally added	Monitors, laptops		

13	Chlorinated Paraffin Short and Medium Chain (SCCPs & MCCPs)	85535-84-8, etc.	ND and must not be intentionally added	All materials	HQ Policy	MSDS
14	Organotin compounds	See Appendix 6	ND and must not be intentionally added	All materials	HQ Policy	MSDS
15	Polyvinyl chloride PVC and its compounds	93050-82-9 9002-86-2 9002-85-1 81517-61-5	Prohibited use	All materials	HQ Policy	MSDS
16	Chlorinated flame retardant CFRs	--	Do not add intentionally	All materials	HQ Policy	MSDS
17	Brominated flame retardants BFRs	See Appendix 2	Prohibited use	All materials	HQ Policy	MSDS
18	Halogen (fluorine, chlorine and bromine)	--	Cl/Br less than 1000 ppm	More than 25g plastic parts (excluding halogenated wires, main and auxiliary boards of notebook products) (Available for laptop EPEAT projects only)	HQ Policy	Test report, MSDS
19	Halogenate organic compound	--	900	Plastic packaging (only applicable to laptop items)	HQ Policy	MSDS
20	Fluorinated compounds	--	A technical investigation of the substance and its application is required and its use is declared	All materials	HQ Policy	Test report
21	Chlorine bleach	--	Prohibited use	Packaging materials	HQ Policy	MSDS
22	Halogenate d diphenylmethane	76253-60-6 81161-70-8 99688-47-8	ND and must not be intentionally added	All materials	HQ Policy	MSDS
23	Hexachloro ethane	67-72-1	ND and must not be intentionally added	All materials	HQ Policy	MSDS
24	Azo dyes-aromatic amines and anilines	See Appendix 4	20 ppm (sum)	All materials	HQ Policy	Test reports, MSDS
			ND and must not be intentionally added	Long-term skin contact with materials	HQ Policy	
25	Lead carbonate/lead sulfate	--	ND and must not be intentionally added	All materials	HQ Policy	MSDS
26	Bisphenol B	77-40-7	1000	All materials	REACH 1907/2006 SVHC	MSDS
27	Tetrabromo bisphenol A (TBBA, TBBPA)	79-94-7	ND and must not be intentionally added	All materials	HQ Policy	MSDS
28	Bisphenol A (BPA)	80-05-7	ND and must not be intentionally added	Thermal paper Frequently handled cables and frequently handled parts and products, such as mice, mouse pads, and keyboards, for skin exposure levels equal to or greater than 3 micrograms per day (pen products only)	HQ Policy	Test reports, MSDS
			3 ug/day	Parts and products with long-term contact with skin, such as wires, mouse, mouse pad, keyboard and shell materials (only applicable to notebook products)		
			Migration ≤ 0.04mg/L	Prolonged contact with human body (including wearable and non-wearable) product materials		
29	Other bisphenols (bisphenol F, bisphenol S)	80-05-7 620-92-8 2467-02-9 1333-16-0 80-09-1	20	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
			200	Thermal paper		
30	Hexabromo cyclododecane (HBCDD)	3194-55-6 25637-99-4 134237-50-6 134237-52-8 134237-51-7	ND and must not be intentionally added	All materials	HQ Policy	Test reports, MSDS
31	Expanded Polystyrene	9003-53-6	ND and must not be intentionally added	Packaging blister	HQ Policy	MSDS
32	Foamed polyethylene	9002-88-4	ND and must not be intentionally added	Australia packaging materials, packaging blister	HQ Policy	MSDS
33	Polyurethane polyurethane	51852-81-4	ND and must not be intentionally added	Packaging materials	HQ Policy	MSDS
34	Brominated polystyrene	88497-56-7	ND and must not be intentionally added	Packaging blister	HQ Policy	MSDS
35	Phosphine	7803-51-2	0.08	Cables, wires	HQ Policy	MSDS
36	Trichlorobenzene (TCB)	120-82-1	1000	All materials	HQ Policy	MSDS

37	Tetrachloro benzene (TeCB)	634-90-2	ND and must not be intentionally added	All materials	HQ Policy	MSDS		
38	Triclosan	3380-34-5	10	All materials	HQ Policy	MSDS		
39	Nickel and its compounds	7440-02-0	Release rate 0.28 µg/cm2/ week	Components in direct and long-term contact with the user's skin, such as mobile phone shell and keys (excluding wearable products)	HQ Policy	Test report, MSDS Note: send the finished product for Ni release test, and send the anodizing sealing agent for Ni content test		
			Release rate 0.2 µg/cm2/ week	Parts in direct and prolonged contact with the user's skin (wearable products)				
			ND and must not be intentionally added	Anodizing solution, such as appearance parts using anodizing process, needs to be Ni-free process, surface of all materials (in contact with skin)	HQ Policy	MSDS		
			1000ppm/declared for use	All materials				
40	Antimony (Sb) and its compounds	7440-36-0 1309-64-4 1345-04-6 10025-91-9 15432-85-6 1314-60-9 7647-18-9 7789-61-9 1315-04-4 1327-33-9 1332-81-6 7783-56-4 1312-41-0	Migration < 30	All materials	HQ Policy	MSDS		
			500					
			ND and must not be intentionally added	Packaging materials			HQ Policy	MSDS
41	Arsenic and its compound	7440-38-2 1303-28-2 1327-53-3, etc.	ND and must not be intentionally added	Skin contact parts of wearable products, polymers,	HQ Policy	MSDS		
			Exemption	Miconductor substrate and dopant				
			1000	Metal Alloy				
			50	All other materials				
42	Cobalt and its compounds (except cobalt chloride)	7440-48-4, etc.	A technical investigation of the substance and its application is required and its use is declared	All materials	HQ Policy	MSDS		
			1 ppm (leachable)	Parts used in products in contact with skin/prolonged contact				
43	Cobalt dichloride	7646-79-9	1000 ppm (Co content)	All materials	HQ Policy	MSDS		
			ND and must not be intentionally added	Silica gel, humidity indicator, packaging material				
44	Red Phosphorus	7723-14-0	ND and must not be intentionally added	All materials	HQ Policy	MSDS		
	Phosphorus	-	ND and must not be intentionally added	Phosphorus degreasing agent and coating solution shall not be used in the pretreatment process of metal shell.				
45	Dimethyl fumarate (DMF)	624-49-7	ND and must not be intentionally added	All materials	HQ Policy	MSDS		
46	Musk xylene	81-15-2	ND and must not be intentionally added	All materials	HQ Policy	MSDS		
47	Nonylphenol nonylphenol polyoxyethylene ether 4-n-nonylphenol,	25154-52-3 9016-45-9 104-40-5 20427-84-3 26027-38-3 27177-05-5 27177-08-8 27986-36-3 7311-27-5 9016-45-9 27176-93-8 51938-25-1 37205-87-1 26571-11-9	100	Leather, textiles	HQ Policy	MSDS		
			ND and must not be intentionally added	Other all materials				
48	Rubber antioxidant N-isopropyl-N'-phenylenediamine (IPPD)	101-72-4	ND and must not be intentionally added	All materials	HQ Policy	MSDS		
49	Nanomaterials	--	A technical investigation of the substance and its application is required and its use is declared Less than 0.1%	All materials	HQ Policy	MSDS		
50	Benzidine and benzidine dihydrochloride	92-87-5 531-85-1	ND and must not be intentionally added	All materials	HQ Policy	MSDS		

51	Boric acid and its salts Sodium tetraborate pentahydrate/ anhydrous sodium tetraborate sodium tetraborate decahydrate (borax)/sodium tetraborate heptahydrate	10043-35-3 11113-50-1 1303-96-4 1330-43-4 12179-04-3 12267-73-1 etc	ND and must not be intentionally added	All materials (e.g. starch in veneer/plywood, additives, flame retardants and stabilizers, aminoplast resins, wood preservatives)	HQ Policy	MSDS
52	Boron trioxide	1303-86-2	ND and must not be intentionally added	All materials (used as flux in the decomposition of silicates, as dopants in semiconductor materials, as refractory additives in heat-resistant glassware and paints for all industrial applications)	HQ Policy	MSDS
53	N, N-Dimethylformamide	68-12-2	ND and must not be intentionally added	All materials	HQ Policy	MSDS
54	4- (1,1,3,3-Tetramethylbutyl) phenol	140-66-9	ND and must not be intentionally added	Surfactants, additives, adhesives, manufacture of oil-soluble octyl phenolic resin, ink fixing agent	HQ Policy	MSDS
55	Deuterated bis (2-methoxyethyl) ether; diethylene glycol dimethyl ether	111-96-6	ND and must not be intentionally added	All materials	HQ Policy	MSDS
56	Triethylene glycol dimethyl ether	112-49-2	ND and must not be intentionally added	All materials	HQ Policy	MSDS
57	Ethylene glycol dimethyl ether (EGDME)	110-71-4	ND and must not be intentionally added	All materials (mainly used as solvents and intermediates in organic synthesis, in the field of polymer chemistry, electrochemistry, boron chemistry processes, and as solvents for resins, nitrocellulose, etc	HQ Policy	MSDS
58	Ethylene glycol diethyl ether	629-14-1	ND and must not be intentionally added	All materials (used as solvents for nitrocellulose, rubber, resins, etc., and as reaction media for organic synthesis)	HQ Policy	MSDS
59	Amyl isoamyl phthalate	84777-06-0	ND and must not be intentionally added	All materials	HQ Policy	MSDS
60	Sulphur	7704-34-9	1,000	Rubber material	HQ Policy	MSDS
61	Pentachlorophenol (PCP) and its salts and esters	87-86-5, etc.	ND and must not be intentionally added	All materials	HQ Policy	MSDS
62	Chlorophenol (PCP free)	25167-82-2 25167-83-3 15950-66-0 933-78-8 933-75-5 88-06-2 935-95-5 58-90-2 4901-51-3 609-19-8 95-95-4 106-48-9 95-95-4 15950-66-0 933-78-8 609-19-8 933-75-5 88-06-2 935-95-5 58-90-2 4901-51-3	0.1	Materials in contact with skin (wearable products)	HQ Policy	MSDS
63	4-tert-Butylphenol	98-54-4	ND and must not be intentionally added	Skin-contact part of a wearable product	HQ Policy	MSDS
64	Phenol	108-95-2	5mg/L	Wearable product skin contact part polymer	HQ Policy	MSDS
65	Quinoline	91-22-5	ND and must not be intentionally added	All materials	HQ Policy	MSDS
66	Other arylamines	--	30	Textiles in contact with skin		
67	Solvent residue	--	3000			

68	Long-chain chlorinated alkanes (C18 and above, LCCP)	--	Greater than 1000 ppm requires technical investigation of the substance and its application and declaration for use	All materials	HQ Policy	MSDS
69	Musk ketone	541-91-3	Greater than 500 ppm requires technical investigation of the substance and its application and declaration for use	All materials	HQ Policy	MSDS
70	Additive phosphorus flame retardant	See Appendix 14	In excess of 1000 ppm, a technical investigation of the substance and its application is required and its use is declared	All materials	HQ Policy	MSDS
71	Additive chlorine/brominated flame retardant	--	Prohibited use	PCB and plastic parts larger than 25g	HQ Policy	MSDS
72	Phosphoric acid (1,1-dimethylethyl) phenyl diphenyl ester	56803-37-3	Contains to be declared for use	All materials	HQ Policy	MSDS
73	Isodecyl diphenyl phosphate	29761-21-5	Contains to be declared for use	All materials	HQ Policy	MSDS
74	(Di-tert-butylphenyl) phenyl phosphate	65652-41-7	Contains to be declared for use	All materials	HQ Policy	MSDS
75	Triethyl phosphate	78-40-0	Contains to be declared for use	All materials	HQ Policy	MSDS
76	Surfactant (DTDMAC /DODMAC /DHTDMA C)	68783-78-8 107-64-2 61789-80-8	The sum of all materials is less than 1000	All materials	HQ Policy	MSDS
77	Beryllium	7440-41-7 See Appendix 9	100	All materials	HQ Policy	MSDS
78	Beryllium and beryllium compounds	7440-41-7, etc. See Appendix 9	ND and must not be intentionally added	All materials	HQ Policy	MSDS
79	Trioctyl trimellitate TOTM	3319-31-1	1000	Power supply wire	HQ Policy	MSDS
80	Pentachloro thiophenol (PCTP)	133-49-3	ND and must not be intentionally added	All materials	HQ Policy	MSDS
81	Monohalogenated aromatic compound	See Appendix 19	500	Capacitance	HQ Policy	MSDS
82	Polyhalogenated aromatic compound	See Appendix 19	ND and must not be intentionally added	All materials	HQ Policy	MSDS
83	Diethylene glycol butyl ether (DEGBE)	112-34-5	Less than 3% of the delivered goods	All materials	HQ Policy	MSDS
84	Diethylene glycol monomethyl ether (DEGME)	111-77-3	1000	All materials	HQ Policy	MSDS
85	2, 4-Dinitrotoluene	121-14-2	ND and must not be intentionally added	All materials	HQ Policy	MSDS
86	Nitrogen trifluoride	7783-54-2	ND and must not be intentionally added	All materials	HQ Policy	MSDS
87	2-methoxyethanol and ethylene glycol monomethyl ether	109-86-4	5000	All materials	HQ Policy	MSDS
88	Acidity and alkalinity	--	3.2-7.5	Leather parts in direct contact with the skin	HQ Policy	MSDS
			4.0-7.5	Parts in direct contact with skin (except leather)		
89	Allergy Test (Skin Irritation/Allergy Test)	--	Allergic symptoms	Wearable products (watches, bracelets, VR, etc.)	HQ Policy	MSDS
90	Acrylamide (monomer)	79-06-1	5	Prolonged contact with human body (including wearable and non-wearable) product materials		MSDS

			Less than 1%	Substances or ingredients used as mixtures in concentrations equal to or greater than 0.1% by weight shall not be used in grouting applications	HQ Policy	
91	Alkylphenol polyoxyalkylene ether and alkylphenol (APEO/AP)	25154-52-3 27193-28-8 9016-45-9 26027-38-3 37205-87-1 127087-87-0 68412-54-4 9002-93-1	Sum < 100 ppm	All materials	HQ Policy	MSDS
92	Allergenic egg	Crustacean protein, milk, peanuts, soy, tree nuts, wheat	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
93	Amines	141-43-5 111-41-1 107-15-3 135-88-6 111-42-2	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
94	Microbicides	35691-65-7 10605-21-7 50-00-0 26172-55-4 55965-84-9 2682-20-4 107534-96-3 731-27-1	DBDCB: 1400 Carbendazim: No Chlorocresol: 3000 Formaldehyde: 75 Isothiazolinone: 100 Tebuconazole: 7000 Metronidazole: 4000	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
		35691-65-7 10605-21-7 50-00-0 26172-55-4 55965-84-9 2682-20-4 107534-96-3 731-27-1	ND and must not be intentionally added	Other all materials	HQ Policy	MSDS
95	Triphenyl phosphate (TPHP)	115-86-6	ND and must not be intentionally added	Components in wearable products that contact the skin	HQ Policy	MSDS
96	Chlorinated aromatic hydrocarbons (except pentachloro benzene)	See Appendix 15	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
97	Colorant	13425-25-7	20	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
98	Diphenyl thiourea	102-08-9	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
99	Para-allyl anisole	140-67-0	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
100	Halogenated diphenylmethane	--	ND and must not be intentionally added	All materials	HQ Policy	MSDS
101	Cyclohexa methylene tetramine	100-97-0	100	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
102	Isocyanate	See Appendix 16	1	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
103	Natural Latex/Natural Rubber	--	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
104	Thiobenzothiazole (2-MBT)	149-30-4	25	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
105	N-nitrosamine	See Appendix 17	0.5	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
106	P-phenylenediamine	106-50-3	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
107	Killing agent (Toxaphene, Mirex, DDT, Endosulfan, etc.)	8001-35-2 2385-85-5 309-00-2 76-44-8 72-20-8 60-57-1 50-29-3 57-74-9 58-89-9 319-84-6 319-85-7 608-73-1 143-50-0 115-29-7 959-98-8 33213-65-9	ND and must not be intentionally added	All materials	HQ Policy	MSDS
108	Phenolphthalein	77-09-8	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS

109	Polybrominated naphthalene (PBN)	--	5 ppm	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
110	Polybrominated terphenyl (PBT)	--	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
111	Heavy metals (amount of migration)	See Appendix 13	For children's products and textiles and leather only	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
112	Small molecular siloxane (D3-D10)	541-05-9 556-67-2 541-02-6 540-97-6 107-50-6 556-68-3 556-71-8 18772-36-6	The content of D4, D5 and D6 in silicone parts (such as ear caps) exposed to human skin for a long time is less than 300ppm	Silicone material (all silicone parts shall be subject to secondary vulcanization process)	HQ Policy	MSDS Test report
			The sum of D3-D10 in other silicone parts is less than 1000 ppm			
			ND and must not be intentionally added	Other all materials (declaration)	HQ Policy	MSDS
113	Halogenated biphenyl Triphenyl and naphthalene	59536-65-1 1336-36-3 70776-03-3 61788-33-8 Polybrominated naphthalene (PBN)	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
114	Benzyl alcohol	100-51-6	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
115	Methacrylate	79-41-4 80-62-6 97-63-2 97-88-1	ND and must not be intentionally added	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
116	Organic solvents	71-43-2 127-19-5 68-12-2 111-15-9 110-80-5 110-49-6 109-86-4 872-50-4 108-88-3 79-01-6	Benzene: ND and must not be intentionally added DMAC: 1000 DMF: 10 Alcohol Ether Ester: 50 Alcohol Mono Ether: 50 Methanol Ether Ester: 10 Alcohol Monomethyl Ether: 5 N-methylpyrrolidone (NMP): 50 Toluene: 1000 Trichloroalkene: 5	All materials (Benzene, DMAC, NMP) Adhesive and lacquer (toluene) Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
			ND and must not be intentionally added	Declaration of all materials	HQ Policy	MSDS
117	UV stabilizer	3846-71-7	UV 320: ND and must not be intentionally added UV 327: 1000 UV 350: 1000	All materials	HQ Policy	MSDS
		3864-99-1 36437-37-3				
118	2-Phenyl-2-propanol	617-94-7	75	Prolonged contact with human body (including wearable and non-wearable) product materials	HQ Policy	MSDS
119	1-bromopropane	106-94-5	ND and must not be intentionally added	All materials	HQ Policy	MSDS
120	Silicon	7440-21-3	40	Rubber silicone for skin-contact parts of wearable products	HQ Policy	MSDS
121	Neodymium and its compounds	7440-00-8	ND and must not be intentionally added	HDDs and cloud storage products for computer servers, leather for skin contact parts of wearable products	HQ Policy	MSDS
122	REACH Annex 14	--	Prohibition of use	All materials (for laptop/desktop/AIO products)	EPEAT HQ Policy	MSDS
123	O-Phenylphenol (OPP)	90-43-7	Prohibition of use	Material in contact with skin (fiber, leather, etc.)	OEKO-TEX Standard 100	MSDS
124	Benzothiazide (TCMTB)	21564-17-0	Prohibition of use	Skin contact parts of wearing products, natural leather	HQ Policy	MSDS
125	4-Chloro-3-methylphenol (CMC/CMK)	59-50-7	Prohibition of use	Skin contact parts of wearing products, natural leather	HQ Policy	MSDS
126	Octyl isothiazolinone (OIT)	26530-20-1	Prohibition of use	Skin contact parts of wearing products, natural leather	HQ Policy	MSDS
127	Indium phosphide	22398-80-7	1000	All materials	HQ Policy	MSDS
128	Nickel sulfate	7786-81-4	1000	Processing/Plating for Fabrication of Cell and Surface Connectors and Contacts	HQ Policy	MSDS
129	Nickel sulfamate	13770-89-3	1000	Processing/Plating for Fabrication of Cell and Surface Connectors and Contacts	HQ Policy	MSDS
130	Methylene dithiocyanate (MBT)	6317-18-6	270	Leather for skin contact parts of wearing products	HQ Policy	MSDS

131	2-Phenyl-1,3-propanediol (PPD)	1570-95-2	330	Leather for skin contact parts of wearing products	HQ Policy	MSDS
132	Copper	7440-50-8	50	Fabric, leather, and polymers for skin contact parts of wearable products	HQ Policy	MSDS
133	Chromium	7440-47-3	200	Leather for skin contact parts of wearing products	HQ Policy	MSDS
134	Substituted diphenylamine (SDPA)	--	Contains to be declared for use	All materials	HQ Policy	MSDS
135	Tetrachloro propane (TeCP)	18495-30-2	5	Fabric, leather, and polymers for skin contact parts of wearable products	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021; Norway Product Regulation; [EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS
136	Tris (2,3-dibromopropyl) phosphate (TRIS)	126-72-7	ND and must not be intentionally added	All materials	[EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS
137	Tri-(aziridinyl)-phosphine oxide (TEPA)	545-55-1	ND and must not be intentionally added	All materials	[EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS
138	Creosote oil, naphthalene oil, anthracene oil, tar oil, alkaline low-temperature tar, etc.	--	ND and must not be intentionally added	Wooden packing material	[EU] REACH Regulation (EC)1907/2006 Annex XVII	MSDS
139	Decabromo diphenyl ethane	84852-53-9	ND and must not be intentionally added	All materials	[Canada] Prohibition of Certain Toxic Substances Regulations	MSDS
140	Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	5	Children's products	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation [USA] Washington D.C., D.C. Law 21-108 Carcinogenic Flame Retardant Prohibition Amendment Act of 2016.	MSDS
			ND and must not be intentionally added	Other All materials	HQ Policy	MSDS
141	Tris (2-chloropropyl) phosphate (TCPP)	13674-84-5	1000	Of all the items	[USA] State of Vermont Act. 85	MSDS
142	Tris (2,3-dichloropropyl) phosphate (TDCPP)	13674-87-8	1000	Of all the items	[USA] State of Vermont Act. 85 [USA] Washington D.C., D.C. Law 21-108 Carcinogenic Flame Retardant Prohibition Amendment Act of 2016	MSDS
143	Ethylene glycol monomethyl ether and its acetate	109-86-4ect	5	All materials	[USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)	MSDS
144	Ethylene glycol monoethyl ether and its acetate	110-80-5etc	5	All materials	[USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)	MSDS
145	Halogenated dioxins and halogenated furans	See Appendix 12	ND and must not be intentionally added	All materials	German regulations	MSDS
146	Dihydroxybenzotriazole methylethyl carboic acid	--	ND and must not be intentionally added	All materials	This Law-Regulation on the Evaluation and Manufacture of Chemical Substances, Chapter 13	MSDS
147	Hexachloro ethane	67-72-1	ND and must not be intentionally added	All materials	REACH Annex XVII [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)	MSDS

148	Diphenylamine with styrene and 2,4,4-Trimethylpentene, reaction product of (BNST)	68921-45-9	ND and must not be intentionally added	All materials	Canadian Environmental Protection Act, 1999	MSDS
149	N-propyl bromide	61809-88-9	1000	All materials	Canadian Environmental Protection Act	MSDS
150	Nitrosodiphenylamine	86-30-6	ND and must not be intentionally added	All materials	[Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment;	MSDS
151	Methoxy chloride	72-43-5	ND and must not be intentionally added	All materials	Stockholm Convention	MSDS
152	Quinoline	91-22-5	50	Clothing or related accessories, textiles in contact with human skin	[EU] REACH Regulation (EC) No.2021/1297 ANNEX XVII	MSDS
153	Bismuth and its compounds	7440-69-9, etc.	90	Painting and spraying of articles in contact with children's skin	HQ Policy	MSDS
			100	Base metal for articles in contact with children's skin:		
			ND and must not be intentionally added	Other All materials		
154	Selenium and its compounds	7782-49-2, etc.	ND and must not be intentionally added	All materials	HQ Policy	MSDS
155	Gold and its compounds	7440-57-5	Intentional addition needs to be declared for use	All materials	HQ Policy	MSDS
156	Silver and its compounds	7440-22-4	Intentional addition needs to be declared for use	All materials	HQ Policy	MSDS
157	Palladium and its compounds	7440-05-3	Intentional addition needs to be declared for use	All materials	HQ Policy	MSDS
158	Chlorinated organic solution	Appendix 3	1000	Solvents in paints, primers, coatings, inks, lubricants and adhesives	REACH/Customer Standard/Canadian Environmental Protection Act 1999	MSDS
159	Sulfur hexafluoride SF6	2551-62-4	ND and must not be intentionally added	Prohibited in preparations and articles, and in foams and non-fillable containers	HQ Policy	MSDS
160	Fungicide	-	Contains declared use	All materials	European Union fungicide	MSDS
161	Endocrine disruptors	-	Contains declared use	All materials	Article 13 of the FR CE and Decree No.2021-1110 of 23 August 2021	MSDS
162	Magnesium	7439-95-4	1000	Not for L/F lead frame class	CP65, Chemical Review Act First Specified Chemical	MSDS
			3000	For L/F lead frame class		
163	Thallium and its compounds	-	1000	All materials	HQ Policy	MSDS
164	Trimethyl phosphate (TMP)	512-56-1	ND and must not be intentionally added	All materials	HQ Policy	MSDS
165	Ethylene glycol monobutyl ether	111-76-2	1000	All materials	HQ Policy	MSDS
166	1, 3, 5-Tris (oxiranylmethyl) -1, 3, 5-triazine-2, 4, 6- (1H, 3H, 5 H) -trione stereoisomer	59653-74-6	ND and must not be intentionally added	All materials	HQ Policy	MSDS
167	Limonene	138-86-3	1000	All materials	HQ Policy	MSDS
168	2-Naphthylamine hydrochloride	612-52-2	ND and must not be intentionally added	All materials	HQ Policy	MSDS
169	Isopropyl alcohol	67-63-0	ND and must not be intentionally added	All materials	HQ Policy	MSDS
170	2-Ethylhexyl diphenyl phosphate	1241-94-7	1000	All materials	HQ Policy	MSDS
171	Tributyl phosphate	126-73-8	1000	Coatings/inks/adhesives	HQ Policy	MSDS
172	Mineral oil	-	ND and must not be intentionally added	Packaging materials	HQ Policy	MSDS
173	1,3-Butadiene	106-99-0	ND and must not be intentionally added	All materials	HQ Policy	MSDS

174	3, 4, 6, 7, 8-Hexahydro 4, 6, 6, 7, 8, 8-Hexamethyl Cyclopenta [G] -2-benzopyran (HHCB)	1222-05-5	ND and must not be intentionally added	All materials	HQ Policy	MSDS
175	1,4-dioxane	123-91-1	ND and must not be intentionally added	All materials	HQ Policy	MSDS
176	Acetaldehyde	75-07-0	ND and must not be intentionally added	All materials	HQ Policy	MSDS
177	Acrylonitrile	107-13-1	ND and must not be intentionally added	All materials	HQ Policy	MSDS
178	C. I. Violet 29 (PV 29)	81-33-4	ND and must not be intentionally added	All materials	HQ Policy	MSDS
179	Cycloaliphatic bromides Cluster (HBCD)	25637-99-4 3194-55-6 3194-57-8	ND and must not be intentionally added	All materials	HQ Policy	MSDS
180	Dibromothane	106-93-4	ND and must not be intentionally added	All materials	HQ Policy	MSDS
181	Phthalic anhydride	85-44-9	ND and must not be intentionally added	All materials	HQ Policy	MSDS
182	Tetrabromodiphenyl ether	5436-43-1	ND and must not be intentionally added	All materials	HQ Policy	MSDS
183	Vinyl chloride	75-01-4	ND and must not be intentionally added	All materials	HQ Policy	MSDS
184	Phenylmercury	62-38-4 103-27-5 13302-00-6 13864-38-5 26545-49-3	100 ppm (concentration of mercury)	All materials	(EU) No 848/2012 amending Annex XVII to Regulation (EC) No 1907/2006	MSDS
185	Polycyclic aromatic hydrocarbons	Appendix 10	Individual species (BaP; BeP; BaA; BbFA; BkFA; BkFA; CHR; DBAaH [G, H, I] perylene; Indeno [1,2,3-cd] pyrene); Naphthalene<1 ppm	External or surface materials of accessible rubber/plastic	HQ Policy	MSDS
			Benzo<0.5ppm	wood-based materials		
			27-item multi-PAHs single substance < 1	Other all materials		
186	2,4,6-Tert-butylphenol (2,4,6-TTBP)	732-26-3	ND and must not be intentionally added	All materials	HQ Policy	MSDS
187	List of restricted substances (process)	See Table 3.2	Prohibited use	During the manufacturing process	HQ Policy	MSDS
188	List of future restricted substances	See Table 3.3	Not mandatory	All materials	HQ Policy	MSDS

HQ Policy: The control limit of a HQ customer is tightened. When the control limit is exceeded, the specific customer standard is used as the basis for

judgment. When there is a conflict in the substance control requirements, the most stringent requirements in this standard shall apply.

Substance Type C: Halogen

Serial number	Name of substance	Limit/ppm	Scope of application	Reference Standard	Compliance basis
1	Fluoride (F)	a. When the content is greater than ND, an investigation statement from the F source must be provided (stating PFAS compliance), and if there is a value, a PFOA/PFOS test report must be provided (applicable to CBG) b. When the content is greater than ND, a F source declaration (stating PFAS compliance) or PFAS report is required. If there is a value, a PFOA/PFOS test report is required (applicable to items other than CBG) c. Wearable fiber/leather materials<50, other materials 900 (applicable only to mobile services)	All materials	IEC61249-2-21 HQ Policy	Test report, MSDS
2	Chlorine (Cl)	900 (investigation statement of Cl source required for ≥ 400 ppm and SCCP test report required for ≥ 500 ppm)			
3	Bromine (Br)	900 (investigation statement of the source of Br for ≥ 230 ppm and HBCD test report for ≥ 100 ppm)			
4	Cl+Br	1500			
5	Iodine(I)	900 (Only applicable to Olympic projects)			
6	F+Cl+Br+I	1000 (Only applicable to Olympic mobile projects)			

4.2 List of restricted substances (process)

Serial number	Name of substance	CAS number	Limit/ppm	Scope of application	Refer to the regulations
1	Chlorinated organic solvents	See Appendix 3	Prohibited use	All manufacturing processes	GBZ 2.1 2007
2	Ethylene dichloride	1300-21-6	Prohibited use		HJ2536-2014
3	Xylene (including isomers)	1330-20-7、95-47-6、108-38-3、106-42-3	Prohibited use		National Environmental Protection Standards of the People's Republic of China and Montreal Protocol
4	Hexane	110-54-3 92112-69-1	Prohibited use		HQ Policy
5	Bromopropane	160-94-5	Prohibited use		HJ2536-2014
6	Cyclohexane	110-82-7	Prohibited use		GBZ 2.1 2007
7	N-methylpyrrolidone (NMP)	872-50-4	Prohibited use		HQ Policy
8	N-heptane	142-82-5	Prohibited use		HQ Policy
9	Benzene	71-43-2	Prohibited use		HQ Policy
10	Toluene	108-88-3	Prohibited use		HQ Policy
11	Beryllium and its compounds	See Appendix 9	0.0002mg/m3 (personnel working area) (dust and flue gas of beryllium)	All manufacturing processes	GBZ 2.1 2007
12	Ozone-depleting substances and greenhouse gases	See Appendix 18	Prohibited use	All manufacturing processes	National Environmental Protection Standards of the People's Republic of China and Montreal Protocol
13	Oxodichloromethane	542-88-1	Prohibited use	All manufacturing processes	HQ Policy
14	Pentachlorophenol	87-86-5	Prohibited use	All manufacturing processes	HQ Policy
15	Vinyl chloride	75-01-4	Prohibited use	All manufacturing processes	HQ Policy
16	N-propyl bromide	106-94-5	Prohibited use	All manufacturing processes	HQ Policy
17	Ethylene glycol methyl ether	109-86-4	Prohibited use	All manufacturing processes	HQ Policy
18	Ethyl 2-methoxyacetate	110-49-6	Prohibited use	All manufacturing processes	HQ Policy
19	Ethylene glycol ether acetate	111-15-9	Prohibited use	All manufacturing processes	HQ Policy
20	Diethylene glycol dimethyl ether	111-96-6	Prohibited use	All manufacturing processes	HQ Policy
21	Ethylene glycol monoethyl ether	110-80-5	Prohibited use	All manufacturing processes	HQ Policy
22	Methanol	67-56-1	Prohibited use	All manufacturing processes	HQ Policy
23	Polychlorophenols and their salts	--	Prohibited use	All manufacturing processes	HQ Policy
24	Alkylphenol and alkylphenol ethoxylate	--	Prohibited use	All manufacturing processes	HQ Policy
25	Chlorinated hydrocarbons	--	Prohibited use	All manufacturing processes	HQ Policy
26	Chlorine bleach	7782-50-5	Prohibited use	Bleaching process of paper packaging material	HQ Policy
27	Tributyltin (TBTO)	688-73-3	Prohibited use	All manufacturing processes	HQ Policy
28	N, N-Dimethylformamide (DMF)	68-12-2	Prohibited use	All manufacturing processes	HQ Policy
29	Ethylbenzene	100-41-4	Prohibited use	All manufacturing processes	HQ Policy
30	Sulfur hexafluoride SF6	2551-62-4	Prohibited use	All manufacturing processes	HQ Policy
31	PIP (3:1) Isopropylated triphenyl phosphate	68937-41-7	Prohibited use	All manufacturing processes	HQ Policy
32	Hydrofluoric acid Hydr ofluoric acid.	7664-39-3	Prohibited use	In glass etching and polishing agent	HQ Policy
33	Nickel (II) acetate tetrahydrate	6018-89-9	Prohibited use	Metal anode sealing agent	HQ Policy
34	Bimorpholinomethane N, N 'Dimorpholinomethane.	5625-90-1	Prohibited use	CNC rust inhibitor	HQ Policy
35	Ethylene glycol butyl ether 2 Butoxyethanol	111-76-2	Prohibited use	In paints, coatings, thinners	HQ Policy

36	Propargyl chloride 3 Chloropropyne	624-65-7	Prohibited use	In a metal passivator	HQ Policy
----	------------------------------------	----------	----------------	-----------------------	-----------

4.3 List of future restricted substances (optional)

Serial number	Name of substance	CAS number	Limit/ppm	Scope of application	Refer to the regulations
1	Melamine	108-78-1	1000	In plastic	/
2	N-ethyl-2-pyrrolidon	2687-91-4	1000	In spraying and adhesives	/
3	Substituted diphenylamine (SDPA)	--	ND	All materials	/
4	Phosphoric acid (1,1-dimethylethyl) phenyl diphenyl ester	56803-37-3	ND	All materials	/
5	Isodecyl diphenyl phosphate	29761-21-5	ND	All materials	/
6	(Di-tert-butylphenyl) phenyl phosphate	65652-41-7	ND	All materials	/
7	Triethyl phosphate	78-40-0	ND	All materials	/
8	Nanomaterials	--	ND	All materials	/
9	Cobalt	7440-48-4	ND	All materials	/

4. Appendix

Appendix 1 Phthalate Esters

Serial number	Name of substance	CAS number	Serial number	Name of substance	CAS number
1	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	15	Dinonyl phthalate (DNP)	84-76-4
2	Benzyl butyl phthalate (BBP)	85-68-7	16	Diisooctyl phthalate (DiOP)	27554-26-3
3	Dibutyl phthalate (DBP)	84-74-2	17	Dipropyl phthalate (DPrP)	131-16-8
4	Diisobutyl phthalate (DIBP)	84-69-5	18	Diphenylmethyl phthalate (DBzP)	523-31-9
5	Di-n-hexyl phthalate (DnHP)	84-75-3	19	Diphenyl phthalate (DPhP)	84-62-8
6	Diamyl phthalate (DnPP)	131-18-0	20	Diallyl phthalate (DAP)	131-17-9
7	Bis (2-methoxyethyl) phthalate (DMEP)	117-82-8	21	1,2-Benzenedicarboxylic acid decyl octyl ester (nDnOP)	119-07-3
8	Diethyl phthalate (DEP)	84-66-2	22	Didecyl phthalate (DnDP)	84-77-5
9	Diisoamyl phthalate (DIPP)	605-50-5	23	Diisopropyl phthalate (DIPRP)	605-45-8
10	Dicyclohexyl phthalate (DCHP)	84-61-7	24	Di-n-Amyl phthalate (DPP)	131-18-0
11	Diisononyl phthalate (DINP)	68515-48-0	25	DHNUP	68515-42-4
12	Diocetyl phthalate (DNOP)	117-84-0	26	nPIPP	/
13	Diisodecyl phthalate (DIDP)	26761-40-0	27	Diisohexyl phthalate	/
14	Dimethyl phthalate (DMP)	131-11-3	/	/	/

Annex 2 Brominated flame retardants BFR

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	1,2-Bis(2,4,6-tribromo-phenoxy) ethane	37853-59-1	16	Dibromo-propanol	96-13-9
2	1,2-Dibromo-4-(1,2 dibromo- methyl)-cyclo-hexane	3322-93-8	17	Dibromo-styrene grafted PP	171091-06-8
3	1,3-Butadiene homopolymer, brominated	68441-46-3	18	Ethylene-bis(5,6-dibromo-norbornane- 2,3-dicarboximide)	52907-07-0
4	2,3-Dibromo-2-butene-1,4-diol	3234-02-4	19	N,N'-Ethylene -bis-(tetrabromo- phthalimide)	32588-76-4
5	2,4,6-tribromo-phenol	118-79-6	20	Pentabromo-benzyl bromide	38521-51-6
6	2,4,6-Tribromo-phenyl-allyl-ether	3278-89-5	21	Pentabromo-benzyl-acrylate, monomer	59447-55-1
7	2,4-Dibromo-phenol	615-58-7	22	Pentabromo-benzyl-acrylate, polymer	59447-57-3
8	2-Hydroxy-propyl-2-(2-hydroxy- ethoxy)-ethyl-TBP	20566-35-2	23	Pentabromo-phenol	608-71-9
9	Bis(2-ethylhexyl)tetrabromo- phthalate	26040-51-7	24	Pentabromo-toluene	87-83-2
10	Bis(methyl)tetrabromo-phthalate	55481-60-2	25	Poly(2,6-dibromo-phenylene oxide)	69882-11-7
11	Brominated epoxy resin end- capped with tribromophenol	135229-48-0	26	Poly-dibromo-styrene	31780-26-4

12	Brominated epoxy resin end- capped with tribromophenol	139638-58-7	27	TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1
13	Brominated polystyrene(BRPS)	57137-10-7	28	TBPA Na salt	25357-79-3
14	Bis(2,3-dibromopropyl) hydrogen phosphate	5412-25-9	29	TBPA, glycol-and propylene-oxide esters	75790-69-1
15	Bis(2,4,6-tribromophenyl)	67990-32-3	30	Tetrabromo phthalic anhydride(TBPA)	632-79-1

Annex 3 Chlorinated Organic Solvents

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	Bromodichloromethane	75-27-4	12	1,1,2,2-Tetrachloroethane	79-34-5
2	Carbon tetrachloride	56-23-5	13	1,1,1-Trichloroethane	71-55-6
3	Chloroform	67-66-3	14	1,1,2-Trichloroethane	79-00-5
4	Dibromochloromethane	124-48-1	15	1,1-Dichloroethylene	75-35-4
5	Methylene chloride	75-09-2	16	Methyl chloride	74-87-3
6	Chloroethane	75-00-3	17	cis-1,2-Dichloroethylene	156-59-2
7	1,1-Dichloroethane	75-34-3	18	trans-1,2-Dichloroethylene	156-60-5
8	1,2-Dichloroethane	107-06-2	19	Tetrachloroethylene	127-18-4
9	Hexachloroethane	67-72-1	20	Trichloroethylene	79-01-6
10	Pentachloroethane	76-01-7	21	HCFCs	/
11	1,1,1,2-Tetrachloroethane	630-20-6			

Annex 4 Azo Dyes-Aromatic Amines and Anilines

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	2,4,5-trimethylaniline	137-17-7	14	5-nitro-o-toluidine	99-55-8
2	2,4-diaminoaniline	615-05-4	15	Benzidine	92-87-5
3	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	16	o-aminoazotoluene	97-56-3
4	2-naphthylamine	91-59-8	17	o-Toluidine	95-53-4
5	3,3-dichlorobenzidine	91-94-1	18	p-chloroaniline	106-47-8
6	3,3-dimethylbenzidine	119-93-7	19	6-methoxy-m-toluidine (p-cresidine)	120-71-8
7	3,3-dimethoxybenzidine	119-90-4	20	2-Methoxyaniline; o-Anisidine	90-04-0
8	4,4'-methylenedi-o-toluidine	838-88-0	21	2,4-xylydine	95-68-1
9	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	22	2,6-xylydine	87-62-7
10	2,2'-dichloro-4,4'- methylenedianiline	101-14-4	23	4,4'-oxydianiline and its salts	-
11	4,4'-oxydianiline	101-80-4	24	Other Azo and its compounds	-
12	4,4-thiodianiline	139-65-1	25	Biphenyl-4-ylamine	92-67-1
13	4-Aminoazobenzene	60-09-3	26	4-chloro-o-toluidine	95-69-2

Annex 5 Perfluorocarboxylic acid

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	TFA	76-05-1	8	PFNA	375-95-1
2	PFPrA	422-64-0	9	PFDA	335-76-2
3	PFBA	375-22-4	10	PFUDA	2058-94-8
4	PFPA	2706-90-3	11	PFDoDA	307-55-1
5	PFHxA	307-24-4	12	PFTrDA	72629-94-8
6	PFHpA	375-85-9	13	PFTeDA	376-06-7
7	PFOA	335-67-1			

Annex 6 Organotin compounds

Tributyltin compound TBT/TPT

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	Tributyl tin (TBT)	56573-85-4	15	Tributyl tin rosin salts	26239-64-5
2	Triphenyl tin (TPT)	668-34-8	16	Tributyl tin sulfamate	6517-25-5
3	Bis(tributyltin)oxide (TBTO)	56-35-9	17	Tributyltin cyclopentane carbonate=mixture	5409-17-2
4	Copolymer of alkyl(c=8) acrylate,methyl methacrylate and tributyltin methacrylate	67772-01-4	18	Tributyltinmethacrylate	2155-70-6
5	Methyl Methacrylate and tributyl tin methacrylate	1461-25-2	19	Triphenyl tin acetate(fentin acetate)	900-95-8
6	Tributyl 2,3-dibromosuccinate	31732-71-5	20	Triphenyl tin chloride	639-58-7
7	Tributyl tin acetate	56-36-0	21	Triphenyl tin chloro acetate	7094-94-2
8	Tributyl tin bromide	1461-23-0	22	Triphenyl tin fluoride(fentin fluoride)	379-52-2
9	Tributyl tin chloride	1461-22-9	23	Triphenyltin fatty acid((9-11) salt)	18380-71-7

		7342-38-3			18380-72-8 47672-31-1 94850-90-5
10	Tributyl tin fluoride	1983-10-4; 7304-48-5	24	Triphenyl tin hydroxide	76-87-9
11	Tributyl tin fumarate	6454-35-9; 24291-45-0	25	Triphenyl tin N, N" - dimethyldithiocarbamate	1803-12-9
12	Tributyl tin laurate	3090-36-6	26	Trivutyl tin maleate	14275-57-1
13	Tributyl tin naphthenate	85409-17-2	27	Other Organic tin and its compounds	/
14	Tributyl tin phthalate	4782-29-0			

Diocetyl tin compound DOT

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	Diocetyl tin (DOT)	26401-97-8	5	Diocetyl tin dilaurate (DOT)	3648-18-8
2	2-ethylhexyl 10-ethyl-4,4-diocetyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	6	Diocetyl tin maleate (DOT)	16091-18-2
3	Diocetyl tin bis(isooctyl maleate) (DOT)	33568-99-9	7	Diocetyl tin oxide (DOT)	870-08-6
4	Diocetyl tin dichloride (DOT)	3542-36-7	8	Diocetyl tin (DOT) compounds	/

Dibutyl tin compound DBT

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	Dibutyl tin (DBT)	1002-53-5	18	Dibutyl tin distearate	5847-55-2
2	Dibutyl tin dimaleate	10192-92-4	19	Diisobutyl tin oxide	61947-30-6
3	Dibutyl tin diacetate	1067-33-0	20	Dibutyl tin dichloride (DBTC)	683-18-1
4	Dibutyl tin dilauryl mercaptide	1185-81-5	21	Dibutyl tin bis(benzyl maleate)	7324-74-5
5	Dibutyl tin dioleate	13323-62-1	22	Dibutyl tin hydrogen borate	75113-37-0
6	Dibutyl tin dipalmitate	13323-63-2	23	Dibutyl tin dilaurate	77-58-7
7	Dibutyl tin disalicylate	14214-24-5	24	Dibutyl tin maleate	78-04-6
8	Di-n-butyl tin bis(methyl maleate)	15546-11-9	25	Dibutyl tin mercaptopropionate	78-06-8
9	Dibutyl tin di(2-ethylhexyl maleate)	15546-12-0	26	Dibutyl tin mercaptoacetate	78-20-6
10	Di-n-butyl tin di(monobutyl)maleate	15546-16-4	27	Dibutyl tin oxide (DBTO)	818-08-6
11	Bis (acetato) dibutyl tin	17523-06-7	28	Dibutyl tin linoleate	85391-79-3
12	Dibutyl tin dihexanoate	19704-60-0	29	Dibutyl tin isooctanoate	85702-74-5
13	Dibutyl tin S,S'-bis (isooctyl mercaptoacetate)	26636-01-1	30	Dibutyl tin linolenate	95873-60-2
14	Dibutyl tin bis(octylthioglycolate)	2781-09-01	31	Dibutyl tin diisostearate	59963-28-9
15	Dibutyl tin dibutoxide	3349-36-8	32	Dibutyl tin dibutyrate	28660-63-1
16	Dibutyl tin dioctanoate	4731-77-5	33	Dibutyl tin bis(isooctylmaleate)	25168-21-2
17	Dibutyl tin dibenzoate	5847-54-1	34	Other Dibutyl tin (DBT) compounds	/

Annex 7 Perfluorooctane sulfonate and its salts (PFOS)

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	Perfluorooctane sulfonic acid and its salts	1763-23-1	11	PFOS Ion	45298-90-6
2	Perfluorooctane sulfonyl fluoride	307-35-7	12	PFOS Triphenylsulfonium Salt	144089-15-6
3	Heptadecafluorooctanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-14-8	13	PFOS Sodium Salt	4021-47-0
4	Potassium heptadecafluorooctane-1- sulphonate	2795-39-3	14	2-[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctylsulfonyl(methyl)amino]acetic acid	2355-31-9
5	Lithium heptadecafluorooctanesulphonate	29457-72-5	15	2-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctylsulfonylamino)acetic acid	2806-24-8
6	Tetraethylammonium heptadecafluorooctanesulphonate	56773-42-3	16	N-ethylperfluorooctane sulfonamidoacetic acid	2991-50-6
7	N-ethyl-N- perfluorooctylsulfonylaminoethanol	1691-99-2	17	1-Decanaminium, N-decyl-N, N-dimethyl-heptadecafluoro-1-octanesulfonate	251099-16-8
8	N-(2-hydroxyethyl)-N-methyl- perfluorooctane-1-sulfonamide	24448-09-7	18	Sulfluramid (N-ethylperfluorooctylsulfonamide)	4151-50-2
9	Ammonium heptadecafluorooctanesulphonate	29081-56-9	19	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyloctane-1-sulfonamide (1, 1, 2, 2, 3, 4, 5, 6, 7, 8, 8-Heptadecafluoro-N-methyloctylsulfonamide)	31506-32-8
10	Heptadecafluorooctanesulphonamide	754-91-6	20	Other	See POPs regulations

Annex 7 Perfluorooctane sulfonate (PFOS) and its derivatives

Substance Name (Chinese)	Name of substance (English)	Short name	CAS number
Perfluorooctane sulfonic acid	Perfluorooctanesulfonic acid	PFOS	1763-23-1
Potassium perfluorooctane sulfonate	Perfluorooctanesulfonic acid, potassium salt	PFOS-K	2795-39-3
Lithium perfluorooctane sulfonate	Perfluorooctanesulfonic acid, lithium salt	PFOS-Li	29457-72-5
Ammonium perfluorooctane sulfonate	Perfluorooctanesulfonic acid, ammonium salt	PFOS-NH4	29081-56-9

Diethanolammonium perfluorooctane sulfonate	Perfluorooctane sulfonate diethanolamine salt	PFOS-NH(OH) ₂	70225-14-8
Tetraethylamine perfluorooctane sulfonate	Perfluorooctanesulfonic acid, tetraethylammonium salt	PFOS-N(C ₂ H ₅) ₄	56773-42-3
Didecyl dimethyl ammonium perfluorooctane sulfonate	Didecyl dimethyl ammonium perfluorooctane sulfonate	PFOS-DDA	251099-16-8
Perfluorooctane sulfonyl fluoride	Perfluoro-1-octanesulfonyl fluoride	PFOSF	307-35-7
Sulfluramid	N-Ethylperfluoro-1-octanesulfonamide	N-Et-FOSA	4151-50-2
1, 1, 2, 2, 3, 3, 4, 5, 6, 7, 8, 8-Heptadecafluoro-N-methyl-octanesulfonamid	N-Methylperfluoro-1-octanesulfonamide	N-Me-FOSA	31506-32-8
N-ethyl perfluorooctyl sulfonamide ethanol	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol	N-Et-FOSE	1691-99-2
1, 1, 2, 2, 3, 3, 4, 5, 6, 7, 8, 8-Heptadecafluoro-N- (2-hydroxyethyl) -N-methyl-1-octylsulfonamide	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol	N-Me-FOSE	24448-09-7
Perfluorooctane sulfonamide	Perfluorooctanesulfonamide	PFOSA	754-91-6
N- (Heptadecafluorooctylsulfonyl) -N-methylglycin	N-Methyl perfluorooctanesulfonamidoacetic acid	N-Me-FOSAA	2355-31-9
N-Ethyl-N- (heptadecafluorooctyl) sulfonyl) glycine	N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]glycine	N-Et-FOSAA	2991-50-6
Sodium perfluorooctane sulfonate	Sodium perfluorooctane sulfonate	PFOS-Na	4021-47-0
Perfluorooctane sulfonyl glycine	Glycine, N-[(heptadecafluorooctyl)sulfonyl]-	FOSAA	2806-24-8
Magnesium perfluorooctane sulfonate	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, magnesium salt (2:1)	PFOS-Mg	91036-71-4
Perfluorooctanesulfonic acid piperidine	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	-	71463-74-6
Perfluorooctane sulfonamide lithium salt (1:1)	Perfluorooctanesulfonamide lithium salt (1:1)	PFOSA-Li	76752-79-9

Annex 8 Perfluorooctanoic acid, its salts and esters (PFOA)

Serial number	Name of substance	CAS number	Serial number	Name of substance	CAS number
1	Pentadecafluorooctanoic acid (PFOA)	335-67-1	6	Perfluorooctanoyl fluoride	335-66-0
2	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	7	Methyl perfluorooctanoate	376-27-2
3	Perfluorooctanoic acid sodium salt	335-95-5	8	Ethyl perfluorooctanoate	3108-24-5
4	Perfluorooctanoic acid potassium salt	2395-00-8	9	Other PFOAs	/
5	Silver perfluorooctanoate	335-93-3			

Annex 8 Perfluorooctanoic acid (PFOA), its salts and related compounds

Substance Name (Chinese)	Name of substance (English)	Short name	CAS number
Perfluorooctanoic acid	Perfluorooctanoic acid	PFOA	335-67-1
Ammonium perfluorooctanoate	Ammonium pentadecafluorooctanoate	APFO	3825-26-1
Sodium perfluorooctanoate	Sodium perfluorooctanoate	PFOA-Na	335-95-5
Potassium perfluorooctanoate	Potassium perfluorooctanoate	PFOA-K	2395-00-8

Silver perfluorooctanoate	Silver perfluorooctanoate	PFOA-Ag	335-93-3
Perfluorooctane fluoride	Perfluorooctanoyl fluoride	PFOA-F	335-66-0
Methyl perfluorooctanoate	Methyl perfluorooctanoate	Me-PFOA	376-27-2
Ethyl perfluorooctanoate	Ethyl perfluorooctanoate	Et-PFOA	3108-24-5
Perfluoro-n-octyl iodide	Perfluorooctyl iodide	PFOI	507-63-1
1H, 1H, 2H, 2H-Perfluoro-1-decanol	1H,1H,2H,2H-perfluoro-1-decanol	8:2 FTOH	678-39-7
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid	8:2 FTS	39108-34-4
1H, 1H, 2H, 2H-Heptadecafluorodecyl acrylate	1,1,2,2-Tetrahydroperfluorodecyl acrylate	8:2 FTAC	27905-45-9
2- (Perfluorooctyl) ethyl methacrylate	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester	8:2 FTMA	1996-88-9
1H, 1H, 2H, 2H-Perfluorodecyltriethoxysilane	1H,1H,2H,2H-Perfluorodecyltriethoxysilane	PFSI	101947-16-4
1-Iodo-1H, 1H, 2H, 2H-perfluorodecan	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-	8:2 FTI	2043-53-0
Bis (2- (perfluoroethyl)) phosphoric acid	8:2 Fluorotelomer phosphate diester	8:2diPAP	678-41-1
Tetrabutylphosphonium 2 H, 2H-perfluorodecanoate	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate	H2PFDA-P(C4H9)4	882489-14-7
2H, 2H, 3H, 3H-Perfluoroundecanoic acid	2H,2H,3H,3H-Perfluoroundecanoic acid	H4PFUnA	34598-33-9
2H, 2H-Perfluorodecanoic acid	2H,2H-Perfluorodecanoate	H2PFDA	27854-31-5
Perfluorooctyl ethylene	1-Decene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	PFOE	21652-58-4
Perfluorodecyltrichlorosilane	Perfluorooctylethyltrichlorosilane	FDTS	78560-44-8
Perfluorodecyl trimethoxysilane	Perfluorooctylethyltrimethoxysilane	FDTMOS	83048-65-1
Potassium 3- (perfluorooctyl) propionate	Potassium 3-(perfluorooctyl)propanoate	H4PFUnA-K	83310-58-1
Sodium bis (2- (perfluoroethyl)) phosphate	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate	8:2diPAP-Na	114519-85-6
Lithium perfluorooctanoate	Lithium perfluorooctanoate	PFOA-Li	17125-58-5
Bis [2- (perfluorodecyl) ethyl] phosphate	Bis[2-(perfluorodecyl)ethyl] Phosphate	10:2 diPAP	1895-26-7
Heptadecafluoro-1-decanol dihydrogen phosphate	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl dihydrogen phosphate	8:2 monoPAPS	57678-03-2
2H-Perfluoro-2-decenoic acid	2H-Perfluoro-2-decenoic acid	8:2 FTUCA	70887-84-2
Cesium perfluorooctanoate	cesium perfluorooctanoate	PFOA-Cs	17125-60-9
Chromium perfluorooctanoate	Chromium(III) perfluorooctanoate	PFOA-Cr	68141-02-6
Cobalt perfluorooctanoate	Cobalt perfluorooctanoate	PFOA-Co	35965-01-6
Ammonium 1H, 1H, 2H, 2H-perfluorodecanesulfonate	8:2 Fluorotelomer sulfonate ammonium salt	8: 2FTS-NH4	149724-40-3
Sodium 1H, 1H, 2H, 2H-perfluorodecanesulfonate	1H,1H,2H,2H-Perfluorodecanesulfonic Acid Sodium	8: 2FTS-Na	27619-96-1

Ammonium bis (2- (perfluoroethyl)) phosphate	Ammonium bis(1H,1H,2H,2H- perfluorodecyl)phosphate	8:2diPAP-NH4	93776-20-6
---	---	--------------	------------

Appendix 9 Beryllium and its compounds

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	Beryl ore	1302-52-9	18	Beryllium di(acetate)	543-81-7
2	Beryllate(2-),tetrafluorodiammonium	14874-86-3	19	Beryllium fluoride	7787-49-7 12323-05-6
3	Beryllium	120-12-7	20	Beryllium hydroxide	13327-32-7
4	Beryllium boride	12536-51-5 12536-52-6 12228-40-9 12429-94-6	21	Beryllium nitrate	13597-99-4
5	Beryllium bromide	7787-46-4	22	Beryllium nitrate trihydrate	7787-55-5
6	Beryllium carbide	506-66-1	23	Beryllium iodide	7787-53-3
7	Beryllium carbonate	13106-47-3 66104-24-3	24	Beryllium nitride	1304-56-9
8	Beryllium chloride	7787-47-5	25	Beryllium phosphate	13598-15-7
9	Beryllium selenide	12232-25-6	26	Beryllium phosphide	58127-61-0 57620-29-8
10	Beryllium sulfate tetrahydrate	7787-56-6	27	Beryllium sulfate	13510-49-1
11	Beryllium telluride	12232-27-8	28	Beryllium sulfide	13598-22-6
12	Beryllium zinc silicate	39413-47-3	29	Beryllium zinc silicate	25638-88-4
13	Bis(pentane-2,4-dionato,o')beryllium	10210-64-7	30	Beryllium-aluminum alloy	12770-50-2
14	Disodium tetrafluoroberyllate	13871-27-7	31	Diethylberyllium	542-63-2
15	Nitric acid,beryllium salt,tetrahydrate	13510-48-0	32	Hexakis[.mu.-(acetate-o:o')]-mu.4-oxotetraBeryllium	19049-40-2
16	Phosphoric acid, beryllium salt(2:3)	13598-26-0	33	Silicic acid(H4SiO4),beryllium salt(1:2)	15191-85-2
17	Phosphoric acid,beryllium salt	35089-00-0	/	/	/

Appendix 10 Polycyclic aromatic hydrocarbons (PAHs)

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	Acenaphthene	83-32-9	15	Dibenz(a,j)acridine	224-42-0
2	Acenaphthylene	208-96-8	16	Dibenzo(a,h)anthracene	53-70-3
3	Anthracene	120-12-7	17	Dibenzo(a,e)fluoranthene	5385-75-1
4	Benzo(a)anthracene	56-55-3 1718-53-2	18	Dibenzo(a,e)pyrene	192-65-4
5	Benzo(a)phenanthrene (chrysene)	218-01-9	19	Dibenzo(a,h)pyrene	189-64-0
6	Benzo(a)pyrene	50-32-8	20	Dibenzo(a,l)pyrene	191-30-0
7	Benzo(b)fluoranthene	205-99-2	21	7H-Dibenzo(c,g)carbazole	194-59-2
8	Benzo(e)pyrene	192-97-2	22	Fluorene	86-73-7
9	Benzo(g,h,i)perylene	191-24-2	23	Indeno(1,2,3-cd)pyrene	193-39-5
10	Benzo(j)fluoranthene	205-82-3	24	5-Methylchrysene	3697-24-3
11	Benzo(k)fluoranthene	207-08-9	25	Naphthalene	91-20-3
12	Benzo(j,k)fluorene (Fluoranthene)	206-44-0 93951-69-0	26	Phenanthrene	85-01-8
13	Benzo(r,t,s)pentaphene	189-55-9	27	Pyrene	129-00-0 1718-52-1
14	Dibenz(a,h)acridine	226-36-8			

Appendix 11 Carcinogenic and sensitizing dyes

Serial	Name of substance	CAS	Serial	Name of substance	CAS number
1	C.I. Acid Red 26	3761-53-3	19	C.I. Disperse Yellow 3	2832-40-8
2	C.I. Basic Red 9	25620-78-4 569-61-9	20	C.I. Disperse Orange 149	85136-74-9
3	C.I. Basic Violet 14	632-99-5	21	C.I. Disperse Yellow 23	6250-23-3
4	C.I. Direct Black 38	1937-37-7	22	C.I. Basic Green 4 (oxalate)	2437-29-8, 18015-76-4
5	C.I. Direct Blue 6	2602-46-2	23	C.I. Basic Green 4 (chloride)	569-64-2
6	C.I. Direct Red 28	573-58-0	24	C.I. Basic Green 4 (free)	10309-95-2
7	C.I. Disperse Blue 1	2475-45-8	25	Navy Blue	EG No. 405- 665-4
8	C.I. Disperse Orange 11	82-28-0	26	Disperse Orange 3	730-40-5
9	Disperse Blue 1	2475-45-8	27	Disperse Orange 37	12223-33-5
10	Disperse Blue 3	2475-46-9	28	Disperse Orange 76	13301-61-6
11	Disperse Blue 7	3179-90-6	29	Disperse Red 1	2872-52-8
12	Disperse Blue 26	3860-63-7	30	Disperse Red 11	2872-48-2

13	Disperse Blue 35	12222-75-2	31	Disperse Red 17	3179-89-3
14	Disperse Blue 102	12222-97-8	32	Disperse Yellow 1	119-15-3
15	Disperse Blue 106	12223-01-7	33	Disperse Yellow 3	2832-40-8
16	Disperse Blue 124	61951-51-7	34	Disperse Yellow 9	6373-73-5
17	Disperse Brown 1	23355-64-8	35	Disperse Yellow 39	12236-29-2
18	Disperse Orange 1	2581-69-3	36	Disperse Yellow 49	54824-37-2

Appendix 12 Dioxins and Furans

Serial number	Name of substance	CAS number	Serial number	Name of substance	CAS number
1	2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6	14	Furan	110-00-9
2	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	15	2, 3, 4, 6, 7, 8-Hexachlorodibenzofuran	60851-34-5
3	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	16	1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4
4	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	17	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7
5	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	18	1, 2, 3, 4, 6, 7, 8, 9-Octachlorodibenzofuran	39001-02-0
6	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	19	1,2,6,7-Tetrachlorodibenzo-p-dioxin	41903-57-5
7	1, 2, 3, 4, 6, 7, 8, 9-Octachlorodibenzo-p-dioxin	3268-87-9	20	1,2,3,4,6-Pentachlorodibenzo-p-dioxin	36088-22-9
8	2, 4, 7, 8-Tetrachlorodibenzofuran	51207-31-9	21	1,2,3,4,6,7-Hexachlorodibenzo-p-dioxin	34465-46-8
9	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	57117-41-6	22	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	37871-00-4
10	2,3,4,7,8-Pentachlorodibenzo-p-dioxin	57117-31-4	23	Tetrachlorodibenzofuran	55722-27-5
11	1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	24	Pentachlorodibenzofuran	30402-15-4
12	1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	25	Hexachlorodibenzofuran	55684-94-1
13	1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	26	Heptachlorodibenzofuran	38998-75-3

Appendix 13 Migratory Heavy Metals

Textiles and leather

Serial number	Name of substance	CAS number	Limit/ppm	
			Textiles	Leather
1	Antimony (Sb)	7440-36-0	30	30
2	Arsenic (As)	7440-38-2	1	1
3	Lead (Pb)	7439-92-1	1	1
4	Cadmium (Cd)	7440-43-9	0.1	01
5	Chromium (Cr)	7440-47-3	2	200
6	Hexavalent chromium (Cr6+)	18540-29-9	0.5	3
7	Cobalt (Co)	7440-48-4	4	4
8	Copper (Cu)	7440-50-8	50	50
9	Nickel (Ni)	7440-02-0	4	4
10	Mercury (Hg)	7439-97-6	0.02	002
11	Barium (Ba)	7440-39-3	/	1000
12	Selenium (Se)	7782-49-2	/	100

Children's products

Serial number	Name of substance	CAS number	Migration limit/ppm	Serial number	Name of substance	CAS number	Migration limit/ppm
1	Aluminium	7429-90-5	70000	11	Copper	7440-50-8	7700
2	Antimony	7440-36-0	60	12	Lead	7439-92-1	23
3	Arsenic	7440-38-2	25	13	Manganese Manganese	7439-96-5	15000
4	Barium	7440-39-3	1000	14	Mercury	7439-97-6	0.02
5	Boron	7440-42-8	15000	15	Nickel	7440-02-0	930
6	Cadmium	7440-43-9	17	16	Selenium	7782-49-2	460
7	Chromium III	/	460	17	Strontium	7440-24-6	56000
8	Chromium VI	/	0.05	18	Tin	7440-31-5	180000
9	Chromium	7440-47-3	60	19	Organic tin	/	12
10	Cobalt	7440-48-4	90	20	Zinc	7440-66-6	46000

Appendix 14 Additive phosphorus flame retardant

Serial	Name of substance	CAS number	Serial number	Name of substance	CAS
1	Isodecyl diphenyl phosphate	29761-21-5	7	Red phosphorous	7723-14-0
2	Melamine phosphate	41583-09-9	8	Tri-o-cresyl phosphate	78-30-8
3	Tetrakis(hydroxymethyl)phosphonium sulphate	55566-30-8	9	Tri-p-cresyl phosphate	78-32-0
4	Tri-m-cresyl phosphate	563-04-2	10	Triethyl phosphate	78-40-0
5	Tris(4-tert-butylphenyl) phosphate	78-33-1	11	Tris(2-ethylhexyl) phosphate	78-42-2
6	Piperazine pyrophosphate	66034-17-1	12	Tris(2-butoxyethyl) phosphate	78-51-3

Appendix 15 Chlorinated Aromatic Hydrocarbons

Serial number	Name of substance	CAS number	Serial number	Name of substance	CAS number
1	O-chlorotoluene	95-49-8	15	1,2,3-Trichlorobenzene	87-61-6
2	3-Chlorotoluene	108-41-8	16	1,2,4-Trichlorobenzene	120-82-1
3	Parachlorotoluene	106-43-4	17	1,3,5-Trichlorobenzene	108-70-3
4	2, 3-Dichlorotoluene	32768-54-0	18	1,2,3,4-Tetrachlorobenzene	634-66-2
5	2, 4-Dichlorotoluene	95-73-8	19	1,2,3,5-Tetrachlorobenzene	634-90-2
6	2, 5-Dichlorotoluene	19398-61-9	20	1,2,4,5-Tetrachlorobenzene	95-94-3
7	2, 6-Dichlorotoluene	118-69-4	21	Pentachlorobenzene	608-93-5
8	3, 4-Dichlorotoluene	95-75-0	22	Hexachlorobenzene	118-74-1
9	2, 3, 6-Trichlorotoluene	2077-46-5	23	Tetrachloro-m-dimethylbenzene	877-09-8
10	2, 4, 5-Trichlorotoluene	6639-30-1	24	Benzene chloride	100-44-7
11	Pentachlorotoluene	877-11-2	25	p-chlorobenzotrichloride	5216-25-1
12	O-dichlorobenzene	95-50-1	26	4-Chloro-o-toluidine chloride	3165-93-3
13	M-dichlorobenzene	541-73-1			
14	1, 4-Dichlorobenzene	106-46-7			

Appendix 16 ISOCYANATES

Serial number	Name of substance	CAS number	Serial number	Name of substance	CAS number
1	Isocyanic acid	9016-87-9	14	Benzene, diisocyanatomethyl-(9CI)	1321-38-6
2	Carbonic dichloride	32055-14-4	15	2-methyl-m-phenylene diisocyanate	91-08-7
3	4,4'-Diphenylmethane diisocyanate	101-68-8	16	Benzene, 1,3-diisocyanatomethyl	26471-62-5
4	Benzene-1,2,4,5-d4, 3,3'-methyl	88077-90-1	17	4-methyl-m-phenylene diisocyanate	584-84-9
5	Benzene, 1,1'-(methylene-d2)b	215590-71-9	18	Benzene, 1,3-diisocyanato-5-methyl	14219-05-7
6	Benzene, 1,1'-(methylene-14	1006610-56-5	19	Toluene-d6 2,4-Diisocyanate	1398066-04-0
7	methylenediphenyl diisocyanate	26447-40-5	20	1-methyl-2,4-bis(oxomethylideneamino)benzene	1346599-79-8
8	2,4'-METHYLENEBIS(PHENYL ISOCYANATE)	5873-54-1	21	/	26102-02-3
9	2,2'-methylenediphenyl diisocyanate	2536-05-2	22	/	10481-63-7
10	4,4'-Diphenylmethane diisocyanate	101-68-8	23	/	10466-63-4
11	/	88077-90-1	24	/	7367-55-7
12	/	215590-71-9	25	/	4963-53-5
13	/	1006610-56-5			

Appendix 17 N-nitrosamines

Serial number	Name of substance	CAS number	Serial number	Name of substance	CAS number
1	N-nitrosodiisobutylamine	997-95-5	12	Methan-d3-amine-15N	854018-25-0
2	N-methyl-N-nitrosoaniline	614-00-6	13	Methyl	903875-68-3
3	N-methyl-N-nitrosomethylamine	62-75-9	14	Methan-d2-amine	1383615-72-2
4	Deuterated N-nitrosodimethylamine D6	17829-05-9	15	Methanamine	67151-47-7
5	Methan-d3-amine	32745-07-6	16	Methanamine	70384-33-7
6	Methanamine	29410-16-0	17	Methan-t3-amine	89143-47-5
7	Methanamine-15N	32745-06-5	18	Dimethylamine-1-C14	108015-68-5
8	Methanamine-13C	32745-08-7	19	Methan-d-t-amine	199984-09-3
9	Methanamine	32745-04-3	20	Methan-d-t-amine	199984-13-9
10	Methanamine-15N	77047-60-0	21	Methanamine-13C	1383615-75-5

11	Methanamine-14C	70519-14-1			
----	-----------------	------------	--	--	--

Appendix 18 Ozone-depleting substances and greenhouse gases

Serial number	Name	CAS No.	Serial number	Name	CAS No.
1	CFC-11	75-69-4	11	CFC-115	76-15-3
2	CFC-12	75-71-8	12	CFC-211	422-78-6
3	CFC-13	75-72-9	13	CFC-212	661-96-1
4	CFC-111	354-56-3	14	CFC-213	1652-89-7
5	CFC-112	76-11-9	15	CFC-214	677-68-9
6	CFC-112	76-12-0	16	CFC-215	1599-41-3
7	CFC-113	354-58-5	17	CFC-215	76-17-5
8	CFC-113	76-13-1	18	CFC-216	661-97-2
9	CFC-114	374-07-2	19	CFC-216	1652-80-8
10	CFC-114	76-14-2	20	CFC-217	422-86-6
Halon-like substance					
1	Halon 1211	353-59-3	2	Halon 1301	75-63-8
3	Halon 2402	124-73-2			
HFC					
1	HFC-23	75-46-7	10	HFC-143a	430-66-0
2	HFC-32	75-10-5	11	HFC-227ea	-
3	HFC-41	593-53-3	12	HFC-236cb	-
4	HFC-43-10mee	-	13	HFC-236ea	431-63-0
5	HFC-125	354-33-6	14	HFC-236fa	690-39-1
6	HFC-134	359-35-3	15	HFC-245ca	679-86-7
7	HFC-134a	811-97-2	16	HFC-245fa	-
8	HFC-152a	75-37-6	17	HFC-365mfc	-
9	HFC-143	420-46-2			

Appendix 19 Halogenated Aromatics

Serial number	Name	CAS
1	Monomethyl tetrachloro diphenyl methane ade name: Ugilec 141	76253-60-6
2	Monomethyl dichloro diphenyl methane Trade name: Ugilec 121, Ugilec 21	81161-70-8
3	Monomethyl dibromo dipenyl methane Trade name: DBBT	99688-47-8
4	Halogenated benzenes -	-
5	Chlorobenzene	108-90-7
6	Dichlorobenzene, 1,2- (ortho-DCB)	95-50-1
7	Dichlorobenzene, 1,4- (para-DCB)	106-46-7
8	Pentachlorobenzene	608-93-5
9	Tetrachlorobenzene, 1, 2, 4, 5-	95-94-3
10	Tetrachlorobenzene, 1, 2, 3, 5-	634-90-2
11	Tetrachlorobenzene, 1, 2, 3, 4-	634-66-2
12	Trichlorobenzene, 1, 2, 4 -	120-82-1
13	Trichlorobenzene, 1, 2, 3-	87-61-6

Appendix 20 MOSH & MOAH substances

France bans the use of mineral inks in packaging materials-saturated cycloalkanes (MOSH)	Saturated cycloalkane (MOSH)	295-65-8	150049-36-8	42506-29-6	109092-41-3
	Saturated cycloalkane (MOSH)	2414049-19-5	150049-35-7	41977-40-6	109090-47-3
	Saturated cycloalkane (MOSH)	2414049-14-0	148425-77-8	39762-40-8	101592-83-0
	Saturated cycloalkane (MOSH)	2275729-57-0	130524-82-2	39762-39-5	101592-82-9
	Saturated cycloalkane (MOSH)	2173146-61-5	124959-95-1	39762-38-4	101592-81-8
	Saturated cycloalkane (MOSH)	2050480-14-1	124959-94-0	37617-28-0	101592-80-7
	Saturated cycloalkane (MOSH)	1809755-11-0	118655-69-9	20250-91-3	101592-79-4
	Saturated cycloalkane (MOSH)	1809242-20-3	110940-61-9	18208-64-5	101592-77-2
	Saturated cycloalkane (MOSH)	1774375-45-9	108897-81-0	13151-76-3	99916-79-7
	Saturated cycloalkane (MOSH)	1682613-87-1	108896-39-5	13151-75-2	99916-78-6
	Saturated cycloalkane (MOSH)	1609353-82-3	107154-58-5	13151-74-1	98672-12-9
	Saturated cycloalkane (MOSH)	1401822-89-6	102860-64-0	13151-73-0	86960-70-5
	Saturated cycloalkane (MOSH)	1360924-43-1	101442-87-9	10483-57-5	76637-62-2

	Saturated cycloalkane (MOSH)	1263691-50-4	101442-86-8	6785-23-5	71676-86-3
	Saturated cycloalkane (MOSH)	1235861-11-6	101442-85-7	4789-31-5	58259-52-2
	Saturated cycloalkane (MOSH)	1203450-39-8	101442-84-6	4789-30-4	54105-66-7
	Saturated cycloalkane (MOSH)	1185773-91-4	101442-83-5	1795-16-0	42506-43-4
	Saturated cycloalkane (MOSH)	1185768-27-7	99916-90-2	2050480-16-3	42506-36-5
	Saturated cycloalkane (MOSH)	1081518-78-6	99916-76-4	2043013-63-2	42506-35-4
	Saturated cycloalkane (MOSH)	1071124-60-1	99916-75-3	1786436-29-0	42506-34-3
	Saturated cycloalkane (MOSH)	1064683-17-5	99916-74-2	1639411-21-4	42506-33-2
	Saturated cycloalkane (MOSH)	1056417-75-4	99916-73-1	1380239-24-6	41977-41-7
	Saturated cycloalkane (MOSH)	1032065-08-9	99916-72-0	1360924-46-4	31904-65-1
	Saturated cycloalkane (MOSH)	1027164-71-1	99916-69-5	1355363-37-9	28250-36-4
	Saturated cycloalkane (MOSH)	1001304-91-1	98672-11-8	1276030-33-1	28250-35-3
	Saturated cycloalkane (MOSH)	944045-31-2	97736-26-0	1236185-94-6	18208-78-1
	Saturated cycloalkane (MOSH)	915302-59-9	94539-52-3	1203450-33-2	18208-72-5
	Saturated cycloalkane (MOSH)	881996-80-1	94107-84-3	1072847-21-2	18208-65-6
	Saturated cycloalkane (MOSH)	881996-63-0	93153-58-3	944045-30-1	13151-81-0
	Saturated cycloalkane (MOSH)	872802-56-7	92861-61-5	906795-61-7	13151-80-9
	Saturated cycloalkane (MOSH)	863406-50-2	86960-71-6	876856-60-9	13151-79-6
	Saturated cycloalkane (MOSH)	861581-05-7	85969-01-3	861567-54-6	13151-78-5
	Saturated cycloalkane (MOSH)	861581-03-5	82056-41-5	856860-39-4	13151-77-4
	Saturated cycloalkane (MOSH)	855895-98-6	82044-55-1	856860-37-2	5634-30-0
	Saturated cycloalkane (MOSH)	768403-67-4	65269-85-4	511538-14-0	2140238-69-1
	Saturated cycloalkane (MOSH)	610755-91-4	65162-15-4	443684-05-7	295-97-6
	Saturated cycloalkane (MOSH)	308342-67-8	62376-17-4	443285-81-2	42506-30-9
	Saturated cycloalkane (MOSH)	183626-52-0	61682-11-9	400633-60-5	129337-15-1
	Saturated cycloalkane (MOSH)	183626-51-9	58399-51-2	205529-86-8	183494-62-4
	Saturated cycloalkane (MOSH)	183494-83-9	58259-50-0	139520-89-1	42506-31-0
	Saturated cycloalkane (MOSH)	183494-64-6	42506-37-6	139520-88-0	137930-31-5

France prohibits the use of mineral inks in packaging materials -- aromatic hydrocarbon mineral oil (MOAH)	104-72-3	340170-97-0	148425-91-6	87018-02-8	29463-65-8
	2648947-20-8	340017-14-3	146041-45-4	84651-16-1	28162-09-6
	2476731-43-6	266673-99-8	145850-75-5	82511-91-9	28162-08-5
	2396515-61-8	208517-77-5	145850-72-2	81870-77-1	27138-20-1
	2379555-32-3	204008-69-5	145057-50-7	81870-71-5	25585-98-2
	2364599-16-4	204008-68-4	145057-49-4	81870-70-4	21565-43-5
	2307464-26-0	204008-67-3	145057-48-3	75934-67-7	21425-82-1
	2211997-21-4	204008-66-2	140946-19-6	75934-66-6	18849-95-1
	2211997-18-9	204008-65-1	138737-85-6	74783-79-2	17689-65-5
	1973478-24-8	204008-64-0	136208-93-0	73466-99-6	16442-14-1
	1967011-32-0	204008-63-9	132981-77-2	71766-60-4	16358-63-7
	1639895-58-1	204008-62-8	132543-19-2	71521-91-0	15880-22-5
	1460223-47-5	204008-61-7	129721-83-1	71521-90-9	13384-13-9

	1445561-66-9	204008-60-6	124959-93-9	71521-89-6	7119-02-0
	1403764-61-3	204008-33-3	123173-22-8	70930-48-2	6796-33-4
	1403764-60-2	204008-32-2	122445-11-8	68640-05-1	6796-30-1
	1397286-13-3	204008-31-1	115361-24-5	68640-01-7	6319-85-3
	1397286-11-1	204008-30-0	104388-19-4	67754-28-3	4810-06-4
	1352390-98-7	204008-29-7	101427-53-6	64391-48-6	4621-36-7
	1345488-96-1	204008-28-6	101427-52-5	62449-89-2	4537-13-7
	1313183-38-8	204008-27-5	101427-51-4	56909-25-2	4537-12-6
	1285705-76-1	204008-26-4	101427-50-3	56532-96-8	4537-11-5
	1240520-42-6	204008-25-3	101427-49-0	56532-94-6	3373-10-2
	1195589-07-1	204008-24-2	101371-21-5	53657-85-5	3370-28-3
	1195360-91-8	204008-23-1	101371-20-4	52313-31-2	3370-27-2
	1195145-07-3	204008-22-0	100945-39-9	51770-87-7	3293-33-2
	1192046-31-3	204008-21-9	100289-69-8	42052-93-7	2883-16-1
	1186645-70-4	204008-20-8	99016-10-1	42052-92-6	2883-14-9
	1053223-82-7	204008-19-5	99016-09-8	41294-84-2	1850-36-8
	1045852-05-8	204008-18-4	98288-00-7	41073-50-1	1752-08-5
	1000174-29-7	204008-17-3	89911-39-7	40544-18-1	1703-89-5
	959572-66-8	204008-16-2	89911-38-6	40395-01-5	1212-61-9
	912815-31-7	204008-15-1	89911-16-0	38144-92-2	1020-87-7
	875843-00-8	204008-14-0	89911-15-9	37723-25-4	1020-86-6
	872306-85-9	199608-20-3	89911-14-8	36614-75-2	1020-38-8
	859781-96-7	184760-73-4	89911-13-7	36614-74-1	1020-14-0
	857001-05-9	177969-65-2	89784-61-2	36614-73-0	1019-77-8
	856703-41-8	177969-64-1	88917-28-6	36614-72-9	1018-80-0
	847256-01-3	177969-63-0	88526-53-8	36614-69-4	635-89-2
	718638-73-4	177969-48-1	87630-23-7	36301-33-4	605-01-6
	675855-62-6	155887-85-7	87119-28-6	35384-03-3	
	344311-82-6	152602-23-8	36614-71-8	33039-80-4	
	340174-41-6	148426-07-7	36614-70-7	31173-90-7	

Appendix 21 Polychlorinated biphenyls (PCBs)

Serial number	Name	CAS	Serial number	Name	CAS
1	Clophen a 30: a 60 1:1 Octa-CN	1336-36-3	18	pcb 1	11141-16-5
2	2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	19	2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9
3	2,2',3,4,4',5',6-PCB	52663-69-1	20	2,2',3,3'-Tetrachlorobiphenyl	38444-93-8
4	2,2',4,5-tetrachlorobiphenyl	70362-47-9	21	4-Chlorobiphenyl	2051-62-9
5	2,2',3,4',5,5',6-PCB	52663-68-0	22	2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2
6	2,2',3,3',6,6'-hexachlorobiphenyl	38411-22-2	23	2,3',4,4',5-PCB	31508-00-6
7	2,3',4-Trichlorobiphenyl	55712-37-3	24	Decachlorobiphenyl	2051-24-3
8	2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	25	PCB-153	35065-27-1

9	2,3,3',4,4',5,5'-PCB	39635-31-9	26	2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4
10	2,2',3,3',4,5,6,6'-PCB	52663-73-7	27	2,2',3',4,6-Pentachlorobiphenyl	60233-25-2
11	2,2',3,4,5,5'-hexachlorobiphenyl	51908-16-8	28	pcb 1	2051-60-7
12	2,2',3,5'-PCB	41464-39-5	29	2,2',3,3',4-pentachlorobiphenyl	52663-62-4
13	2,2'-DICHLOBIPHENYL	13029-08-8	30	2,3',6-Trichlorobiphenyl	38444-76-7
14	2,3,3',4,4',5-PCB	38380-08-4	31	2,3,6-trichlorobiphenyl	55702-45-9
15	4,4'-PCB	2050-68-2	32	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9
16	AROCHLOR 1232	11100-14-4	33	3,4,4'-PCB	38444-90-5
17	AROCHLOR 1232	37324-23-5	34	2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3

Appendix 22 Persistent Organic Pollutants (POPs)

Serial number	Name	CAS	Serial number	Name	CAS
1	Hexabromobiphenyl	59080-40-9 36355-01-8 182677-30-1 60044-26-0 59261-08-4 37680-66-3	10	Hexachlorocyclohexane (lindane)	58-89-9 319-84-6 319-85-7 608-73-1 959-98-9 33213-65-9
2	Pentachlorobenzene	608-93-5	11	Endrin	72-20-8
3	Hexachlorobenzene	118-74-1	12	Heptachlor	76-44-8
4	Pentachlorophenol and its salts and esters of pentachlorophenol and its salts and esters.	87-86-5, etc.	13	Toxaphene	8001-35-2
5	Dicofol	115-32-2	14	Mirex	2385-85-5
6	Chlordane	57-74-9	15	Chlordecone	143-50-0
7	DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl) ethane)	50-29-3	16	Endosulfan	115-29-7 959-98-9 33213-65-9
8	Aldrin	309-00-2	17	Hexachlorobutadiene (HBCD)	87-68-3
9	Dieldrin	60-57-1			

Appendix 23 Perfluorobutane sulfonate (PFBS), its salts and related substances

Substance Name (Chinese)	Name of substance (English)	Short name	CAS number
Perfluorobutyl sulfonic acid	Perfluorobutane sulfonic acid	PFBS	375-73-5
Potassium perfluorobutyl sulfonate	Perfluorobutanesulfonate K-salt	PFBS-K	29420-49-3
Perfluorobutyl sulfonic acid hydrate	Perfluorobutane sulfonic acid hydrate	PFBS-H ₂ O	59933-66-3
Perfluorobutylsulfonyl fluoride	1-Butanesulfonyl fluoride, 1,1,2,2,3,3,4,4,4-nonafluoro-	PFBSF	375-72-4
Tetraethylammonium perfluorobutanesulfonate	N,N,N-Triethyl-1-[(1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonyl)oxy]ethan-1-aminium	PFBS-N(CH ₃ CH ₂) ₄	25628-08-4
1, 1, 2, 2, 3, 3, 4, 4-Nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulfonamid	1,1,2,2,3,3,4,4,4-Nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulfonamide	N-Et-N-Me-FBSA	34454-97-2
Perfluorobutyl sulfonyl chloride	Nonafluoro-1-butan sulfonyl chloride	PFBS-Cl	2991-84-6

Perfluorobutyl sulfonamide	Perfluorobutylsulphonamide	FBSA	30334-69-1
Lithium perfluorobutyl sulfonate	lithium perfluorobutanesulfonate	PFBS-Li	131651-65-5
Ammonium perfluorobutyl sulfonate	Ammonium perfluorobutanesulfonate	PFBS-NH ₄	68259-10-9
Magnesium perfluorobutyl sulfonate	Magnesium perfluorobutanesulfonate	PFBS-Mg	507453-86-3
Sodium perfluorobutyl sulfonate	Sodium perfluorobutanesulfonate	PFBS-Na	60453-92-1

Appendix 24 Perfluorocarboxylic acids (PFCAs, C9-C14) and their salts and related substances

Substance Name (Chinese)	Name of substance (English)	Short name	CAS number
1H, 1H, 2H, 2H-Perfluoro-1-decanol	1H,1H,2H,2H-perfluoro-1-decanol	8:2 FTOH	678-39-7
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid	8:2 FTS	39108-34-4
1H, 1H, 2H, 2H-Heptadecafluorodecyl acrylate	1,1,2,2-Tetrahydroperfluorodecyl acrylate	8:2 FTAC	27905-45-9
2- (Perfluorooctyl) ethyl methacrylate	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester	8:2 FTMA	1996-88-9
1H, 1H, 2H, 2H-Perfluorodecyltriethoxysilane	1H,1H,2H,2H-Perfluorodecyltriethoxysilane	PFSI	101947-16-4
1-Iodo-1H, 1H, 2H, 2H-perfluorodecan	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-	8:2 FTI	2043-53-0
Bis (2- (perfluoroethyl)) phosphoric acid	8:2 Fluorotelomer phosphate diester	8:2diPAP	678-41-1
Perfluoroundecanoic acid	Perfluoroundecanoic acid	PFUnDA	2058-94-8
Perfluorododecanoic acid	Perfluorododecanoic acid	PFDoDA	307-55-1
Perfluorotridecanoic acid	Perfluorotridecanoic acid	PFTTrDA	72629-94-8
Perfluorotetradecanoic acid	Perfluorotetradecanoic acid	PFTeDA	376-06-7
Perfluorodecane sulfonic acid	henicosafuorodecanesulphonic acid	PFDS	335-77-3, 126105-34-8
Perfluorononanoic acid	Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	Perfluorodecanoic acid	PFDA	335-76-2
Perfluoro-3,7-dimethyl-octanoic acid	Perfluoro-3,7-dimethyloctanoic acid	PF-3,7-DMOA	172155-07-6
Tetrabutylphosphonium 2 H, 2H-perfluorodecanoate	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate	H ₂ PFDA-P(C ₄ H ₉) ₄	882489-14-7
2H, 2H, 3H, 3H-Perfluoroundecanoic acid	2H,2H,3H,3H-Perfluoroundecanoic acid	H ₄ PFUnA	34598-33-9
Sodium perfluorodecane sulfonate	Perfluorodecanesulfonate NA-salt	PFDS-Na	2806-15-7
Potassium perfluorodecane sulfonate	Perfluorodecanesulfonate K-salt	PFDS-K	2806-16-8
Sodium perfluorononanoate	Sodium heptadecafluorononanoate	PFNA-Na	21049-39-8
Ammonium perfluorononanoate	Perfluorononanoate ammonium salt	PFNA-NH ₄	4149-60-4
Sodium perfluorodecanoate	Sodium nonadecafluorodecanoate	PFDA-Na	3830-45-3
1H, 1H, 2H, 2H-Perfluoro-1-dodecanol	1H,1H,2H,2H-Perfluoro-1-dodecanol	10:2 FTOH	865-86-1
1H, 1H, 2H, 2H-Perfluorododecyl acrylates	1H,1H,2H,2H-Tetrahydroperfluorododecyl acrylate	10:2 FTA	17741-60-5

Ammonium perfluorodecanoate	Perfluorodecanoate ammonium salt	APFDA	3108-42-7
Ammonium perfluorodecane sulfonate	Ammonium hencosafluorodecanesulphonate	PFDS-NH ₄	67906-42-7
2H, 2H-Perfluorodecanoic acid	2H,2H-Perfluorodecanoate	H2PFDA	27854-31-5
https://item.gbwh-china.com/info/180005562.html	1H,1H,2H,2H-Perfluorododecanesulphonicacid	10:2FTS	120226-60-0
Ammonium perfluorododecanoate	Ammonium tricosfluorododecanoate	PFDoDA-NH ₄	3793-74-6
1-Iodoperfluorodecan	Perfluorodecyl iodide	PFDI	423-62-1
1-Iodoperfluorododecan	Perfluorododecyl iodide	PFDol	307-60-8
1H, 1H, 2H, 2H-Perfluorododecyl iodide	1H,1H,2H,2H-perfluorododecyl iodide	10:2FTI	2043-54-1
1H, 1H, 2H, 2H-Perfluorotetradecyl iodide	1H,1H,2H,2H-perfluorotetradecyl iodide	12:2FTI	30046-31-2
2- (Perfluorodecyl) ethyl methacrylate	2-(Perfluorodecyl)ethyl methacrylate	10:2FTMA	2144-54-9
1H, 1H, 2H, 2H-Perfluoro-1-tetradecanol	1H,1H,2H,2H-perfluorotetradecan-1-ol	12:2 FTOH	39239-77-5
Sodium perfluoro-1-nonane sulfonate	Sodium Perfluoro-1-nonanesulfonate	PFNSNa	98789-57-2
Sodium perfluoro-1-dodecanesulfonate	Sodium perfluoro-1-dodecanesulfonate	PFDoDSNa	1260224-54-1
Perfluorooctyl ethylene	1-Decene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	PFOE	21652-58-4
Sodium perfluoro-1-undecanesulfonate	Sodium perfluoro-1-undecanesulfonate	PFUnS-Na	—
Sodium perfluoro-1-tridecanesulfonate	Sodium perfluorotridecanesulfonate	PFTTrDS-Na	174675-49-1
Perfluoro-1-tridecanesulfonic acid	Perfluorotridecanesulfonic acid	PFTTrDS	791563-89-8
Perfluorononane sulfonic acid	Perfluorononane sulfonic acid	PFNS	68259-12-1
Perfluoroundecane sulfonic acid	Perfluoroundecane sulfonic acid	PFUnS	749786-16-1
Potassium perfluorononanoate	Potassium perfluorononanoate	PFNA-K	21049-38-7
Perfluoro-1-dodecanesulfonic acid	perfluorododecanesulfonic acid	PFDoDS	79780-39-5
Dodecafluorododecyl dihydrogen phosphate	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-henicosfluorododecyl dihydrogen phosphate	10:2 monoPAPS	57678-05-4
Cyclohexyl ammonium salt of hencosafluorododecyl dihydrogen phosphate	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-Henicosfluorododecyl dihydrogen phosphate cyclohexylamine	-	2514858-66-1
Potassium 3- (perfluorooctyl) propionate	Potassium 3-(perfluorooctyl)propanoate	H4PFUnA-K	83310-58-1
Sodium bis (2- (perfluoroethyl)) phosphate	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate	8:2diPAP-Na	114519-85-6
Ammonium perfluorononyl sulfonate	Ammonium perfluorononanesulfonate	PFNS-NH ₄	17202-41-4
Sodium perfluoroundecanoate	Sodium perfluoroundecanoate	PFUnDA-Na	60871-96-7
Ammonium perfluoroundecanoate	Ammonium perfluoroundecanoate	PFUnDA-NH ₄	4234-23-5
Potassium perfluoroundecanoate	Potassium perfluoroundecanoate	PFUnDA-K	30377-53-8
Silver perfluorononanoate	Silver perfluorononanoate	PFNA-Ag	7358-16-9
Potassium perfluorodecanoate	Potassium perfluorodecanoate	PFDA-K	51604-85-4
Silver perfluorodecanoate	Silver perfluorodecanoate	PFDA-Ag	5784-82-7
Lithium perfluorodecanoate	Lithium perfluorodecanoate	PFDA-Li	84743-32-8
Sodium perfluorododecanoate	Sodium perfluorododecanoate	PFDoDA-Na	60872-01-7
Ammonium perfluorotridecanoate	Ammonium perfluorotridecanoate	PFTTrDA-NH ₄	4288-72-6
Lithium perfluorononanoate	Lithium heptadecafluorononanoate	PFNA-Li	60871-92-3

Heptadecafluoro-1-decanol dihydrogen phosphate	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl dihydrogen phosphate	8:2 monoPAPS	57678-03-2
2H-Perfluoro-2-dodecenoic acid	2H-Perfluoro-2-dodecenoic acid	10:2FTUCA	70887-94-4
Ammonium 1H, 1H, 2H, 2H-perfluorodecanesulfonate	8:2 Fluorotelomer sulfonate ammonium salt	8: 2FTS-NH ₄	149724-40-3
Sodium 1H, 1H, 2H, 2H-perfluorodecanesulfonate	1H,1H,2H,2H-Perfluorodecanesulfonic Acid Sodium	8: 2FTS-Na	27619-96-1
Ammonium bis (2- (perfluoroethyl)) phosphate	Ammonium bis(1H,1H,2H,2H-perfluorodecyl)phosphate	8:2diPAP-NH ₄	93776-20-6
Calcium perfluoroundecanoate	Calcium perfluoroundecanoate	PFUnDA-Ca	97163-17-2
Perfluorodecyl phosphonic acid	perfluorodecylphosphonic acid	PFDPA	52299-26-0
2H, 2H-Perfluorododecanoic acid	2H,2H-Perfluorododecanoic acid	10:2FTCA	53826-13-4
Sodium 1H, 1H, 2H, 2H-perfluorododecanesulfonate	1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium	10:2 FTS-Na	108026-35-3

Appendix 25 Perfluorohexanoic acid (PFHxA), its salts and related substances

Substance Name (Chinese)	Name of substance (English)	Short name	CAS number
Perfluorohexanoic acid	Perfluorohexanoic acid	PFHxA	307-24-4
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid	6:2FTS	27619-97-2
1H, 1H, 2H, 2H-Perfluoro-1-octanol	1H,1H,2H,2H-Perfluoro-1-octanol	6:2 FTOH	647-42-7
1H, 1H, 2H, 2H-Perfluorooctanol Acrylate	1H,1H,2H,2H-Perfluoro octyl acrylate	6:2 FTA	17527-29-6
Ammonium perfluorohexanoate	Ammonium perfluorohexanoate	PFHxA-NH ₄	21615-47-4
1 H, 1 H, 2 H, 2 H-Perfluorooctyl methacrylate	1H,1H,2H,2H-Perfluorooctyl methacrylate	6:2 FTMAC	2144-53-8
2-Perfluorohexylacetic acid	2-Perfluorohexyl ethanoic acid	6:2 FTCA	53826-12-3
3-Perfluoropentylpropionic acid	3-Perfluoropentyl propanoic acid	5:3 FTCA	914637-49-3
Potassium perfluorohexanoate	Hexanoic acid, undecafluoro-, potassium salt	PFHxA-K	3109-94-2
Sodium perfluorohexanoate	sodium undecafluorohexanoate	PFHxA-Na	2923-26-4
Trichloro (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) silane	Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane	FOTS	78560-45-9
Perfluorohexyl ethylene	(Perfluorohexyl)ethylene	PFHE	25291-17-2
Silver perfluorohexanoate	Silver perfluorohexanoate	PFHxA-Ag	336-02-7
Lithium perfluorohexanoate	Lithium perfluorohexanoate	PFHxA-Li	90430-61-8

Appendix 26 Perfluorohexane sulfonate (PFHxS), its salts and related substances

Substance Name (Chinese)	Name of substance (English)	Short name	CAS number
Perfluorohexyl sulfonic acid	Perfluorohexanesulfonic acid	PFHxS	355-46-4
Sodium perfluorohexyl sulfonate	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt	PFHxS-Na	82382-12-5
Potassium perfluorohexyl sulfonate	Potassium perfluorohexane-1-sulphonate	PFHxS-K	3871-99-6
Ammonium perfluorohexyl sulfonate	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt (1:1)	PFHxS-NH4	68259-08-5
Lithium perfluorohexylsulfonate	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1)	PFHxS-Li	55120-77-9
Zinc perfluorohexyl sulfonate	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt	PFHxS-Zn	70136-72-0
Perfluorohexyl sulfonamide	1-Hexane-sulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	FHxSA	41997-13-1
Perfluorohexylsulfonyl fluoride	1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	PFHxSF	423-50-7
N-methyl perfluorohexane sulfonamide	n-methylperfluorohexanesulfonamide	MeFHxSA	68259-15-4
Gallium perfluorohexylsulfonate (9CI)	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)	PFHxS-Ga	341035-71-0
Scandium perfluorohexylsulfonate (3:1)	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1)	PFHxS-Sc	350836-93-0
Neodymium perfluorohexylsulfonate (3:1)	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1)	PFHxS-Nd	41184-65-0
Yttrium perfluorohexylsulfonate (3:1)	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1)	PFHxS-Y	41242-12-0
Cesium perfluorohexylsulfonate	Cesium Perfluorohexanesulfonate	PFHxS-Cs	92011-17-1

RoHS Exemption List (only list the exemption items applicable to our products)

Name of substance	Terms	Exemption	Deadline
Lead and its compounds	6(a)-I	Steel used as an alloy in machining with a lead content of not more than 0.35 Wt% and galvanized steel components in batch heat treatment with a lead content of not more than 0.2 Wt%	An extension has been requested
	6(b)-I	The content of lead as an alloying element in the recycled lead-containing aluminum scrap is not more than 0.4% (Wt).	
	6(b)-II	Aluminum for machining purposes, not more than 0.4% (Wt) lead as an alloying element	
	6(c)	The lead content in the copper alloy shall not exceed 4% (Wt).	
	7(a)	Lead in high temperature molten solder (i.e. lead content in lead-based alloy $\geq 85\%$ (Wt))	
	7(c)-I	Lead in glass or ceramics for electrical and electronic components other than dielectric ceramics for capacitors, e.g. piezoelectric glass or ceramic device	
	7(c)-II	Lead in dielectric ceramics for capacitors rated 125 V AC or 250 V DC or higher	An extension has been requested
	7(c)-IV	Lead in PZT dielectric ceramic materials used in capacitor components of integrated circuits or discrete semiconductor	
	13(a)	Lead in white glass for optical applications	An extension has been requested
	24	Lead in Solders for Through-Hole Disc-Shaped and Planar Array Ceramic Multilayer Capacitors	
	29	Lead in crystal glass as defined in Annex I (Classes 1, 2, 3 and 4) of Council Directive 69/493/EEC *	
	32	Lead oxide in sealing glass for argon and krypton laser tubes in window assemblies	
	34	Lead in cermet trimmer potentiometer element	
	37	Lead in electroplated coatings of high voltage diodes on zinc borate glass substrates	An

			extension has been requested
Cadmium and its compounds (Not applicable to laptop products)	8(b)-I	Cadmium and cadmium compounds in electrical contacts are used for: – Circuit breaker – Thermal sensing control – Thermal motor protector (excluding hermetically sealed thermal motor protector); – AC switch rated at: – 6A and above at 250V AC and above; Or – 12A and above at 125V AC and above; – DC switch rated at 20 A and above at 18 V and above; And – Switch for voltage supply frequency ≥ 200 Hz ""	An extension has been requested
	13(b)-II	Cadmium in optical filter glass; excluding equipment in accordance with paragraph 39 of this annex	
	13(b)-III	Cadmium and Lead in Glazes for Reflective Standards	
	39(a)	Cadmium selenide for reducing cadmium based semiconductor nanocrystalline quantum dots in display lighting (display area less than 0.2 UG/mm ²)	
Mercury and its compounds (Not applicable to laptop products)	1(a)	Lamp for general lighting of less than 30 W containing not more than 2.5 mg of Hg per lamp	Due February 24, 2023
	1(b)	Hg content not exceeding 3.5 mg per lamp for general lighting purposes, 30-50 W	
	1(c)	General lighting lamps 50-150 W containing not more than 5.0 mg Hg per lamp	
	1(d)	Not more than 15 mg Hg per lamp for general lighting greater than 150 W	
	1(f)-I	For lamps emitting primarily light in the ultraviolet spectrum, the Hg content shall not exceed 5 mg per lamp	Due February 24, 2027
	4(e)	Mercury in metal halide lamps (MH)	Due February 24, 2027
	4(f)-III	Mercury in High Pressure Sodium Vapor Lamps for Garden Lighting	Due February 24, 2027
	4(f)-IV	Mercury in lamps emitting in the ultraviolet spectrum	Due February 24, 2027