

Appendix 1: List of Prohibited Substances

CAS No. /chemSHERPA Substance group ID *1	Substance/Substance group	chemSHERPA ID * 2	Referenced laws & regulations	Reportable applications	Reporting threshold *3
SG001	Asbestos	00003	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Toxic Substances Control Act (TSCA); [Switzerland] Act of Reduction of Risks in Treatment of Specified Hazardous Substances, Preparations, and Articles in Switzerland (ChemRRV Swiss Ordinance 814.81.	All	Intentionally added [ReportingLevel:Product]
SG006	Cadmium/Cadmium compounds	00010	[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; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	All, except batteries	0.01 mass% of total Cd in homogenous material [ReportingLevel:Material]
SG006	Cadmium/Cadmium compounds	00011	[EU] Battery Directive 2006/66/EC; [Korea (the Republic of)] Quality Management and Manufactured Product Safety Management Law (Battery Regulation)	All, except batteries	0.01 mass% of total Cd in homogenous material [ReportingLevel:Material]
SG008	Chromium (VI) Compounds	00012	[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;	All	0.1 mass% of total Cr-6 in homogenous material [ReportingLevel:Material]
SG009	Dibutyltin (DBT) compounds	00014	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	All	0.1 mass% of tin in the part [ReportingLevel:Product Part]
SG012	Fluorinated Greenhouse Gases (PFC, SF6, HFC)	00018	[EU] REGULATION (EU) No 517/2014 on fluorinated greenhouse gases	All	Intentionally Added [ReportingLevel:Product]
SG013	Hexabromocyclododecane (HBCDD)	00020	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004	All	Intentionally added or 0.01 mass% of article [ReportingLevel:Article]
SG014	Lead/Lead Compounds	00021	[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; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	All, except batteries	0.1 mass% of total Pb in homogenous material [ReportingLevel:Material]
SG014	Lead/Lead Compounds	00024	[USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)	All, except batteries	0.1 mass% of total Pb in homogenous material [ReportingLevel:Material]
SG014	Lead/Lead Compounds	00025	[EU] Battery Directive 2006/66/EC; [China] Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries GB 24427-2009	All, except batteries	0.1 mass% of total Pb in homogenous material [ReportingLevel:Material]
SG019	Mercury/Mercury Compounds	00029	[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; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [Canada] Products containing Mercury regulations SOR/2014-254	All, except batteries	Intentionally Added or 0.1 mass% of total Hg in homogenous material [ReportingLevel:Material]
SG019	Mercury/Mercury Compounds	00030	[EU] Battery Directive 2006/66/EC; [China] Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries GB 24427-2009; [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	All, except batteries	Intentionally Added or 0.1 mass% of total Hg in homogenous material [ReportingLevel:Material]
SG019	Mercury/Mercury Compounds	00132	[Canada] Products containing Mercury Regulations SOR/2014-254	All, except batteries	Intentionally Added or 0.1 mass% of total Hg in homogenous material [ReportingLevel:Material]
SG021	Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)	00032	[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	All	Intentionally Added [ReportingLevel:Product]
SG026	Polybrominated biphenyls (PBB)	00044	[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	All	0.1 mass% in homogenous material [ReportingLevel:Material]
SG027	Polybrominated diphenyl ethers (PBDE)	00045	[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.	All	0.1 mass% in homogenous material or Intentionally added [ReportingLevel:Material]
SG028	Polychlorinated Biphenyls (PCBs) and specific substitutes	00046	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [USA] Toxic Substances Control Act (TSCA); [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	All	Intentionally added [ReportingLevel:Product]
SG029	Polychlorinated Terphenyls (PCTs)	00047	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	All	0.005 mass% in material [ReportingLevel:Material]
SG030	Polychlorinated naphthalenes	00048	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	All	Intentionally added [ReportingLevel:Product]
SG031	Radioactive substances	00049	[USA] Nuclear Regulatory Commission Regulations Title 10 CFR Part 20; [Japan] Law for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors; [Japan] Law Concerning Prevention from Radiation Hazards due to Radio-Isotopes, etc.; [EU] Directive 2013/59/Euratom	All	Intentionally added [ReportingLevel:Product]
SG034	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	00052	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Norway] Regulations relating to restrictions on the manufacture, import, export, sale and use of chemicals and other products hazardous to health and the environment (Consumer Product Regulations) FOR-2004-06-01-922; [Switzerland] Act of Reduction of Risks in Treatment of Specified Hazardous Substances, Preparations, and Articles in Switzerland (ChemRRV Swiss Ordinance 814.81	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]
SG035	Tri-substituted organostannic compounds	00055	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [Norway] Regulations relating to restrictions on the manufacture, import, export, sale and use of chemicals and other products hazardous to health and the environment (Consumer Product Regulations) FOR-2004-06-01-922	All	Intentionally added or 0.1 mass% of tin in the part [ReportingLevel:Product Part]
SG048	Perfluorohexane-1-sulphonic acid and its salts	00143	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021	All	Intentionally added or 0.0000025 mass% of PFHxS or any of its salts in article [ReportingLevel:Article]
SG051	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16.9.02.13.05.10]octadeca-7,15-diene ("Decchlorane Plus" TM)	00147	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021 (pending)	All	Intentionally added or 0.0001 mass% of article [ReportingLevel:Article]
SG054	Perfluorooctanoic acid and its salts	00160	[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [Korea (the Republic of)] Persistent Organic Pollutants Control Act	All	Intentionally added or 0.0000025 mass% of PFOA including its salts in article or mixture [ReportingLevel:Article, Mixture]
SG055	PFOA-related compounds	00161	[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Korea (the Republic of)] Persistent Organic Pollutants Control Act	All	Intentionally added or 0.0001 mass% of one or a combination of PFOA-related compounds, in article or mixture [ReportingLevel:Article, Mixture]
SG065	C9-C14 PFCA's and their salts	00182	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	All	0.0000025 mass% for the sum of C9-C14 PFCA's and their salts in Article or Mixture [ReportingLevel:Article, Mixture]
SG066	C9-C14 PFCA-related substances	00183	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	All	0.000026 mass% for the sum of C9-C14 PFCA-related substances in Article or Mixture [ReportingLevel:Article, Mixture]
SG070	Pentachlorophenol and its salts and esters	00201	[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	All	Intentionally added or 0.0005 mass% of PCP including its salts and esters in article or mixture [ReportingLevel:Article, Mixture]
SG072	PFHxS-related compounds	00205	[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021	All	Intentionally added or 0.0001 mass% of one or a combination of PFHxS-related compounds in article [ReportingLevel:Article]
1163-19-5	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	00064	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [USA] Toxic Substances Control Act (TSCA); [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]
117-81-7	Bis (2-ethylhexyl)phthalate (DEHP)	00038	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation	All	0.1 mass% in homogenous material [ReportingLevel:Material]
119344-86-4	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[(4-morpholin-4-yl)phenyl]butan-1-one	00198	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation	All	0.1 mass% of article [ReportingLevel:Article]
1304-56-9	Beryllium Oxide	00005	[Guidance] EICTA, CECED and EERA Joint Position : Guidance on implementing article 11 of Directive 2002/96/EC) concerning information for treatment facilities	All	0.1 mass% [ReportingLevel:Product]
13701-59-2	Barium diboron tetroxide	00187	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation	All	0.1 mass% of article [ReportingLevel:Article]
25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	00130	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021 (pending)	All	Intentionally added or 0.0001 mass% of article [ReportingLevel:Article]
3846-71-7	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	00035	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]
56-35-9	Bis(tributyltin) oxide (TBTO)	00054	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]
624-49-7	Dimethylfumarate (DMF)	00016	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII	All	0.00001 mass% of the part [ReportingLevel:Product Part]
68937-41-7	Phenol, Isopropylated Phosphate (3:1) (PIP (3:1))	00174	[USA] Toxic Substances Control Act (TSCA)	All	Intentionally added [ReportingLevel:Product]
84-69-5	Diisobutyl phthalate	00041	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation	All	0.1 mass% in homogenous material [ReportingLevel:Material]
84-74-2	Dibutyl phthalate (DBP)	00039	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation	All	0.1 mass% in homogenous material [ReportingLevel:Material]
85-68-7	Benzyl butyl phthalate (BBP)	00040	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation	All	0.1 mass% in homogenous material [ReportingLevel:Material]
—	Heavy metals contained in packaging materials (lead, cadmium, mercury, hexavalent chromium)	—	[EU] Packaging and packaging waste Directive 94/62/EC	Packaging material	Intentional addition or total amount of heavy metals in molded articles: 0.01 wt% (100 ppm) [Reporting level: molded article]

*1 For chemSHERPA Substance Group ID, please refer to the "chemSHERPA Managed substance list"

*2 For chemSHERPA Compliance Judgment ID, please refer to the "chemSHERPA Managed substance list"

*3 In some cases, the referenced regulations may specify exemptions for certain applications. In such cases, it is acceptable for the content to exceed the threshold listed in this document, provided it does not exceed the limit defined by the regulation.

(Example: Annex III of the EU RoHS Directive) However, please note that these exemptions may have expiration dates.