

<Appendix >

Toshiba Group List of Environment-Related Materials/Substances (in Products) Version 2.0

<Table 1> Rank A: Prohibited materials/substances

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to Toshiba Group	Reference laws and regulations
A01	Asbestos	Prohibition of intentional addition	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII) JPN Industrial Safety and Health Law (Prohibition of Manufacturing)
A02	Certain azocolourants and azodyes (only those that may release certain amines)	0.003wt%(30ppm) for each generated certain Amine	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII)
A03	Cadmium and cadmium compounds	0.01wt%(100 ppm) (*1, *2)	Toshiba Group Prohibited materials/substances EU RoHS Directive EU REACH Regulation (Annex XVII) EU Packaging Directive
A04	Hexavalent chromium compounds	0.1wt%(1000 ppm) (*1, *2)	Toshiba Group Prohibited materials/substances EU RoHS Directive EU REACH Regulation (Annex XVII) EU Packaging Directive
A05	Lead and lead compounds	0.1wt%(1000 ppm) (*1, *2)	Toshiba Group Prohibited materials/substances EU RoHS Directive EU REACH Regulation (Annex XVII) EU Packaging Directive
A06	Mercury and mercury compounds	0.1wt%(1000 ppm) (*1, *2)	Toshiba Group Prohibited materials/substances EU RoHS Directive EU REACH Regulation

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to Toshiba Group	Reference laws and regulations
			(Annex XVII) EU Packaging Directive
A07	Ozone depleting substances (CFCs, HCFCs, HBFCs, carbon tetrachloride, etc.)	Prohibition of intentional addition	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII) Montreal Protocol JPN Ozone Layer Protection Law
A08	Polybrominated biphenyls (PBBs)	0.1wt%(1000 ppm) (*1)	Toshiba Group Prohibited materials/substances EU RoHS Directive EU REACH Regulation (Annex XVII)
A09	Polybrominated diphenylethers (PBDEs)	Prohibition of intentional addition (only for 4-7, 10 bromine atoms), or 0.1wt% (1000 ppm) (*1)	Toshiba Group Prohibited materials/substances EU RoHS Directive EU REACH Regulation (Annex XVII) POPs Convention (Annex A) JPN CSCL (Class 1) U.S. TSCA PBT Rules(*7)
A10	Polychlorinated biphenyls (PCBs)	Prohibition of intentional addition	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII) POPs Convention (Annex A) JPN CSCL (Class 1)
A11	Polychlorinated naphthalenes (more than 2 chlorine atoms) (*3)	Prohibition of intentional addition	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII) POPs Convention (Annex A) JPN CSCL (Class 1)

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to Toshiba Group	Reference laws and regulations
A12	Radioactive substances	74Bq/g	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII) JPN Act on Prevention of Radiation Hazards due to Radioisotopes, etc JPN Nuclear Reactor Regulation Law JPN Industrial Safety and Health Law Regulation on Prevention of Ionizing Radiation Hazards
A13	Certain short chain chlorinated paraffins (with a carbon chain length of between 10 and 13)	Prohibition of intentional addition, or 1000ppm	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII) POPs Convention (Annex A) JPN CSCL (Class 1)
A14	Tributyl tin (TBT) and triphenyl tin (TPT)	Prohibition of intentional addition, or 0.1wt%(1000 ppm) of tin in the part(*4)	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII)
A15	Tributyl tin oxide (TBTO)	Prohibition of intentional addition, or 0.1wt%(1000 ppm) of tin in the part(*4)	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII) JPN CSCL (Class 1)
A16	4-Aminodiphenyl and its salt	Prohibition of intentional addition	JPN Industrial Safety and Health Law (Prohibition of Manufacturing)
A17	1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro -exo-1,4-endo-5,8-dimethanonaphthalene (also known as Aldrin)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to Toshiba Group	Reference laws and regulations
A18	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene (also known as Endrin)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A19	Yellow phosphorus (e.g. contained in match powder in some cases)	Prohibition of intentional addition	JPN Industrial Safety and Health Law (Prohibition of Manufacturing)
A20	Mixture of 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene, and their analogous compounds (also known as Chlordane or Heptachlor)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A21	N,N'-ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine or N,N'-dixylyl-p-phenylenediamine	Prohibition of intentional addition	JPN CSCL (Class 1)
A22	Dioxins	Prohibition of intentional addition	Act on Special Measures against Dioxins
A23	1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane (also known as DDT)	Prohibition of intentional addition	JPN CSCL (Class 1)
A24	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethano naphthalene (also known as Dieldrin)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A25	Polychloro-2,2-dimethyl-3-methylidenebicyclo[2.2.1]heptane (also known as Toxaphene)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A26	2,4,6-tri-tert-butylphenol (TTBP)	Prohibition of intentional addition	JPN CSCL (Class 1) U.S. TSCA PBT Rules(*7)

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to Toshiba Group	Reference laws and regulations
A27	Beta-naphthylamine and its salt	Prohibition of intentional addition	JPN Industrial Safety and Health Law (Prohibition of Manufacturing)
A28	4-nitrodiphenyl and its salt	Prohibition of intentional addition	JPN Industrial Safety and Health Law (Prohibition of Manufacturing)
A29	Bis(chloromethyl) ether	Prohibition of intentional addition	JPN Industrial Safety and Health Law (Prohibition of Manufacturing)
A30	Hexachlorobenzene	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A31	Benzidine and its salt	Prohibition of intentional addition	JPN Industrial Safety and Health Law (Prohibition of Manufacturing)
A32	Benzene	Prohibition of intentional addition	JPN Industrial Safety and Health Law (Prohibition of Manufacturing)
A33	2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-butylphenol	Prohibition of intentional addition, or 1000ppm	Toshiba Group Prohibited materials/substances JPN CSCL (Class 1) EU REACH Regulation (Annex XVII)
A34	Dodecachloropentacyclo [5.3.0.0(2,6).0(3,9).0(4,8)] decane (also known as Mirex)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A35	2,2,2-trichloro-1,1-bis(4-chlorophenyl)ethanol (also known as Kelthane or Dicofol)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A36	Hexachlorobuta-1,3-diene (also known as Hexachlorobutadiene or HCBd)	Prohibition of intentional addition	Toshiba Group Managed materials/substances POPs Convention (Annex A) JPN CSCL (Class 1) U.S. TSCA PBT Rules(*7)

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to Toshiba Group	Reference laws and regulations
A37	Perfluoro(octane-1-sulfonic acid) (also known as PFOS) or its salt	Prohibition of intentional addition, or 0.1wt%(1000 ppm) (in the case of coated material, 1 microgram/m ²)	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII) POPs Convention (Annex B) JPN CSCL (Class 1)
A38	Perfluoro(octane-1-sulfonyl) fluoride (also known as PFOSF)	Prohibition of intentional addition, or 0.1wt% (1000 ppm) (in the case of coated material, 1 microgram/m ²)	Toshiba Group Prohibited materials/substances POPs Convention (Annex B) JPN CSCL (Class 1)
A39	Polychlorinated terphenyls (PCTs)	0.005wt% (50 ppm)	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII)
A40	Tri-substituted organostannic compounds (excluding A14 and A15)	0.1wt% (1000 ppm) of tin in the part(*4)	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII)
A41	Dimethyl fumarate (DMF)	0.00001wt% (0.1 ppm)	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII)
A42	Pentachlorobenzene	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A43	r-1,c-2,t-3,c-4,t-5,t-6-Hexachloro-cyclohexane (also known as α -Hexachlorocyclohexane)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A44	r-1,t-2,c-3,t-4,c-5,t-6-Hexachloro-cyclohexane (also known as β -Hexachlorocyclohexane)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to Toshiba Group	Reference laws and regulations
A45	r-1,c-2,t-3,c-4,c-5,t-6-Hexachloro-cyclohexane (also known as γ -Hexachlorocyclohexane or Lindane)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A46	Decachloropentacyclo (5.3.0.0 ^{2,6} .0 ^{3,9} .0 ^{4,8}) decane-5-one (also known as Clordecene)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A47	Dioctyltin compounds (DOT)	0.1wt%(1000 ppm) of tin in the part (*4, *5)	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII)
A48	Dibutyltin compounds (DBT)	0.1wt% (1000 ppm) of tin in the part (*4, *5)	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII)
A49	6,9-Methano-2,4, 3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1, 5,5a,6,9,9a-hexahydro-, 3-oxide (also known as Benzoepin or Endosulfan)	Prohibition of intentional addition	POPs Convention (Annex A) JPN CSCL (Class 1)
A50	Hexabromocyclododecane (also known as HBCD)	Prohibition of intentional addition, or 0.01wt% (100ppm)	Toshiba Group Prohibited materials/substances POPs Convention (Annex A), JPN CSCL (Class 1)
A51	Certain polycyclic aromatic hydrocarbons (PAHs)	0.0001wt% (1ppm) 1 ppm (*5)	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII)
A52	Bis (2-ethylhexyl)phthalate (DEHP)	0.1wt% (1000 ppm) (*6)	Toshiba Group Prohibited materials/substances EU RoHS Directive EU REACH Regulation (Annex XVII)

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to Toshiba Group	Reference laws and regulations
A53	Dibutyl phthalate (DBP)	0.1wt% (1000 ppm) (*6)	Toshiba Group Prohibited materials/substances EU RoHS Directive EU REACH Regulation (Annex XVII)
A54	Butyl benzyl phthalate (BBP)	0.1wt% (1000 ppm) (*6)	Toshiba Group Prohibited materials/substances EU RoHS Directive, EU REACH Regulation (Annex XVII)
A55	Diisobutyl Phthalate (DIBP)	0.1wt% (1000 ppm) (*6)	Toshiba Group Prohibited materials/substances EU RoHS Directive EU REACH Regulation (Annex XVII)
A56	Phenol, isopropylated phosphate (PIP (3:1))	Prohibition of intentional addition	Toshiba Group Prohibited materials/substances U.S. TSCA PBT Rules (*8)
A57	Perfluorooctanoic acid (PFOA), its salts and related compounds	1. PFOA and its salts Prohibition of intentional addition or 0.0000025wt% (25 ppb) of PFOA including its salts in an article or a mixture 2. PFOA-related compounds 0.0001wt% (1 ppm) of one or a combination of PFOA-related compounds, in an article or a mixture	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII), EU POPs Regulation, JPN CSCL (Class 1) (*7)
A58	Perfluorocarboxylic acids containing C9 to C14 (C9-C14 PFCAs), their salts and C9-C14 PFCAs-related substances	1. C9-C14 PFCAs and their salts Prohibition of 0.0000025 wt% (25 ppb) of C9-C14 PFCAs including their salts in an article or a mixture 2. C9-C14 PFCAs-related substances 0.000026 wt% (260 ppb) of one or a combination of C9-C14 PFCAs-related substances, in an article or a mixture	Toshiba Group Prohibited materials/substances EU REACH Regulation (Annex XVII)

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to Toshiba Group	Reference laws and regulations
A59	Perfluorohexanesulfonic acid (PFHxS), its salt and PFHxS-related substances	1. PFHxS and its salts Prohibition of intentional addition or 0.0000025wt% (25 ppb) of PFHxS including its salts in an article or a mixture 2. PFHxS-related compounds 0.0001wt% (1 ppm) of one or a combination of PFHxS-related compounds, in an article or a mixture	JPN CSCL (Class 1) (*9), EU POPs Regulation
A60	Dechlorane Plus	Prohibition of intentional addition	JPN CSCL (Class 1)
A61	UV-328	Prohibition of intentional addition	JPN CSCL (Class 1)
A 901	Pentachlorothiophenol (PCTP)	Prohibition of intentional addition	Toshiba Group Managed materials/substances U.S. TSCA PBT Rules (*8)
A 902	Greenhouse Gases(PFCs, SF6, HFCs)	Prohibition of intentional addition	Toshiba Group Managed materials/substances EU REACH Regulation (Annex XVII)
A 903	Nickel and its compounds (only parts in contact with human bodies)	Prohibition of intentional addition	Toshiba Group Managed materials/substances EU REACH Regulation (Annex XVII)
A 904	Di-Isodecyl Phthalate (DIDP)	Prohibition of intentional addition	Toshiba Group Managed materials/substances EU REACH Regulation (Annex XVII)
A 905	Di-n-hexyl Phthalate(DnHP)	Prohibition of intentional addition	Toshiba Group Managed materials/substances EU REACH Regulation (Annex XVII)

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to Toshiba Group	Reference laws and regulations
A 906	Diisononyl Phthalate(DINP)	Prohibition of intentional addition	Toshiba Group Managed materials/substances EU REACH Regulation (Annex XVII)
A 907	Pentachlorophenol and its salts and esters	Prohibition of intentional addition	POPs Convention (Annex B) JPN CSCL (Class 1)
A 908	4,4'-Isopropylidenediphenol (bisphenol A)	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A 909	Cobalt and its compounds	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A 910	Neodymium and its compounds	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A 911	4-Nonylphenol	0.1wt% (1000 ppm) (*)6)	EU REACH Regulation (Annex XVII)
A 912	Methoxychlor	Prohibition of intentional addition	JPN CSCL (Class 1)

"Intentional addition" means using chemical substances intentionally in forming supply items to bring about specific properties, appearance, or quality.

(*1)The denominator when calculating a threshold value shall be for each homogeneous material. The threshold concentration of metal compound is the mass ratio of metal element to homogeneous material. For example, in the case of cadmium and its compounds, it is the concentration of cadmium element. Only applications exempt from the EU RoHS Directive (hereinafter RoHS) shall be exempt from the prohibition (including exemption applications accepted in the future).

(*2)For packaging materials, the threshold of concentration to be prohibited shall be 0.01wt% (100 ppm) for a total of four materials (cadmium and its compounds, hexavalent chromium compounds, lead and its compounds, and mercury and its compounds) for each homogeneous material composing the package. The threshold concentration of metal compound is the mass ratio of metal element to homogeneous material. For example, in the case of cadmium and its compounds, it is the concentration of cadmium element.

(*3)Polychlorinated naphthalene with 1 or more chlorine atoms is prohibited for products destined for the EU that require compliance with EU POPs regulations. Polychlorinated naphthalene with 2 or more chlorine atoms is prohibited for products for other regions.

(*4)The numerator when calculating a threshold value shall be an equivalent for metal tin (Sn), and the denominator shall be for each molded item or its component (including mixtures only for DBT). Intentional addition for biocides and industrial wastewater treatment applications is prohibited.

(*5)The target substance groups and uses are listed in Annex XVII of the EU REACH Regulation. However, only the applications allowed for use covered by the exemptions and time limits specified in Annex XVII of the EU REACH Regulation shall be exempt from the prohibition of use.

(*6)In the case of the scope of the EU RoHS Directive, it is prohibited to contain 0.1wt% (1000 ppm) or more of each homogeneous material for each substance. In the case of the scope of the EU REACH Regulation, the total content of phthalates is prohibited from containing 0.1wt% (1000 ppm) or more of the plasticized material. The applications that are

out of scope of EU RoHS Directive or EU REACH Regulation, or are exempted from EU RoHS Directive or EU REACH Regulation shall be exempt from this regulation (including exemption applications accepted in the future).

(*7)CSCL: Chemical Substances Control Law of Japan

(*8)The regulations on the five persistent, bioaccumulative, and toxic (PBT) chemicals and PBT-containing products and articles in accordance with the TSCA (U.S. Toxic Substances Control Act) Section 6(h). At the moment, procurement items that are incorporated into articles whose destinations are clearly countries other than the U.S. are not subject to the regulations. In addition, among PIP (3:1), phase-in prohibitions and exemptions are excluded.

(*9)Under the CNCL PFHxS-related substances are excluded.

<Table 2> Prohibited substances in product safety design

Material/substance	Reference laws and regulations
Red phosphorus(*10)	Toshiba Group Prohibited materials/substances

(*10) "Red phosphorus" is used as a flame retardant for resins, but it is necessary to treat the particle surface to prevent hydrolysis (surface treatment is carried out and sold by the flame retardant manufacturer). "Untreated" red phosphorus "(hereinafter referred to as" untreated red phosphorus ")" is added to the resin as a flame retardant, and the phosphoric acid generated by hydrolysis in the market is used for electrical wiring of connectors and substrates. There were many accidents that caused short circuits and heat generation in the parts. Both accidents are caused by the unintentional addition and mixing of "untreated red phosphorus".

<Table 3>

Toshiba Group List of Environment-Related Materials/Substances (in Products)

Rank B: Managed materials/substances (category)

No.	Material/substance category	Reference laws and regulations
B01	Antimony and its compounds	Toshiba Group Managed materials/substances JPN CSCL (Class 1)
B02	Arsenic and its compounds	Toshiba Group Managed materials/substances JPN CSCL (Class 1) JPN Industrial Safety and Health Law (Prohibition of Manufacturing) JPN Poisonous and Deleterious Substances Control Act
B03	Beryllium and its compounds	Toshiba Group Managed materials/substances JPN CSCL (Class 1) JPN Industrial Safety and Health Law (Prohibition of Manufacturing)
B04	Brominated flame retardants, other than PBBs (A08) and PBDEs (A09)	Toshiba Group Managed materials/substances
B05	Change registration to A903 (Nickel and its compounds)	-
B06	Change registration to A904 (Certain phthalates, other than A52~A54)	-
B07	Polyvinylchloride and its compounds (PVC)	Toshiba Group Managed materials/substances
B08	Selenium and its compounds	Toshiba Group Managed materials/substances JPN CSCL (Class 1) JPN Poisonous and Deleterious Substances Control Act
B09	Change registration to A902 (PFCs)	-
B10	Change registration to A902 (HFCs)	-
B11	Change registration to A902 (SF6)	-
B12	Substances of Very High Concern (SVHC) under the EU REACH Regulations (*11)	Toshiba Group Managed materials/substances EU REACH Regulation
B13	Change registration to Appendix 2 Prohibited substances in product safety design (Red phosphorus)	-

No.	Material/substance category	Reference laws and regulations
B14	Change registration to A26 (TTBP) Change registration to A36 (HCBD) Change registration to A901 (PCTP)	-
B15	Next candidate substances for restriction under the EU RoHS Directive	-
B16	Next candidate substances for restriction under the Chemical Substances Control Law of Japan Class 1(*12)	-
B17	Per- and polyfluoroalkyl substances (PFASs) (*13) (*14)	
B91	2,2'-Methylenebis(6-tert-butyl-4-methylphenol) (*15)	

(*11) The Substances of Very High Concern (SVHC) selected under the procedures specified in Article 59 of the EU REACH Regulation. The denominator shall be the total mass of a supply item or each component/material.

(*12) Substances that have been decided to be listed as POPs in Annex A (Elimination) and Annex B (Restriction) of Stockholm Convention are included. Substances will be moved to Rank A when it is determined to be the Chemical Substances Control Law of Japan (Class1).

(*13) PFAS as defined in the European Chemicals Agency's (ECHA) draft regulation of perfluoroalkyl compounds and polyfluoroalkyl substances (PFAS)

(*14) PFAS as defined in the Toxic Substances Control Act (TSCA), 40 CFR Part 705, § 705.3 Definitions in accordance with Section 8(a)(7)

(*15) Although listed in the DSL of IEC62474, there is no regulatory information available, so it is treated as a managed substance.

For further information of Substances of Very High Concern (SVHC), please refer to the following website.

<http://echa.europa.eu/web/guest/candidate-list-table>

For further information about GADSL, please refer to the following website.

<http://www.gadsl.org>

Table of revisions

Established on: September 17, 2024

Revised on: March 1, 2025

Edition No.	Date of establishment / revision	Reason and contents of revision
1	2024.9.17	<p>Toshiba Group Review</p> <p>Separated from Toshiba Group Green Procurement Guidelines and newly issued</p> <p>Added note on PFAS in Table 2 Rank B: Managed materials/substances (category) in accordance with the revision of the law</p> <p>Revised the description of (*12) and (*13) in Table 2 Rank B: Managed materials/substances (category)</p>
2.0	2025.3.1	<p>Toshiba Group Review</p> <p>Table1 Rank A: Prohibited materials/substances (category) in accordance with the revision of the law</p> <p>A60 Dechlorane Plus (JPN CSCL (Class 1))</p> <p>A61 UV-328 (JPN CSCL (Class 1))</p> <p>Toshiba Lighting and Technology Review</p> <p>Table1 Rank A: Prohibited materials/substances (category) in accordance with the revision of the law</p> <p>A912 Methoxychlor (JPN CSCL (Class 1))</p>