

Dynabook Inc.

**Standard Manual for Management of
Chemical Substances Contained in
Parts and Materials
Ver.1.01**

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Chapter 1: Survey of Chemical Substances Contained in Parts and Materials

1. Purpose

Dynabook Inc. (including the group companies, hereinafter referred to as Dynabook) actively promotes green procurement for environmental conservation activities together with our business partners to ensure environmental conservation at the time of product disposal and user safety. Green procurement is carried out through a "green audit" to evaluate the environmental conservation efforts of the entire business partner company, and a "delivery product evaluation" to evaluate the environmental impact reduction of parts and materials (raw materials, general-purpose parts, finished products, semi-finished products, auxiliary materials, etc.) purchased from the business partner. This standard document shows business partners the standards for chemical substances contained in products and the survey method for them in the "delivery product evaluation", and aims to reduce the environmental impact and ensure user safety as well as comply with laws and regulations. In principle, delivery product evaluation is carried out in two forms: "Use/Non-use Declaration of Environment-Related Substances" and "EU-REACH SVHC Content Survey Document". However, due to the emergence of new laws and regulations or revisions to laws and regulations, additional surveys may be conducted.

Survey	Description	Remarks
Use/Non-use Declaration of Environment-Related Substances	Dynabook-prescribed documents to be submitted regarding the content of prohibited substances	Posted on the Dynabook website below. https://dynabook.com/pc/env/eng/green/index.html
EU-REACH SVHC Content Survey	Dynabook-specified documents to be submitted regarding the content status of EU-REACH SVHC contained in products, semi-finished products, parts, and materials delivered to Dynabook	This information is only available to business partners. The response method is described in the "EU-REACH SVHC Content Survey Form."

2. Applicable Scope

This survey applies to all products shipped by Dynabook¹ (hereinafter referred to as Dynabook products), all parts and materials used in Dynabook products, and their packaging materials². Specifically, the survey covers the following:

- 1) Parts, materials, and units incorporated into Dynabook products
- 2) Auxiliary materials used in production and contained in Dynabook products (solder, oil, grease, tape, marking ink marker pens, etc.)
- 3) Finished products, options, supplies, etc. purchased for sale
- 4) Printed materials and accessories included with Dynabook products (instruction manuals, cables, remote controls, etc.) (Printed materials not used or included with Dynabook products (delivery and delivery slips, inspection reports, etc.) are not included.)
- 5) Packaging materials used to pack Dynabook products²
- 6) Packaging materials used by suppliers of parts and materials to transport and protect parts and materials²

* Packaging materials listed in 6) are excluded from investigation in the "Report on Chemical Substances Contained in the Product" and "Content Survey." For details, refer to the "Remarks" column

under section “5. Documents to Be Submitted”.

The following parts and materials may contain chemical substances that are subject to this survey. Check thoroughly whether they are present.

- Lubricants, such as grease
- Flame retardants in resin materials
- Polyvinyl chloride, flame retardants, and stabilizers in lead wire insulation
- Special metals (alloys) for lubrication of electrical contacts, etc.

¹ Includes products shipped between Dynabook Group companies.

² Packaging materials are used to transport, protect, and contain goods, and in principle become unnecessary as soon as the product is used. Printing on packaging and printed labels affixed to packaging are included in packaging.

[Example] Cardboard paper, plastic bags, cushioning materials, protective films, adhesive tapes, staples, bands for securing loads, and labels, paints, and inks for them.

3. Definition of Terms

Chemical substance	An element or its compound that is formed naturally or can be obtained in any manufacturing process. (JIS Z 7201)
Mixture	Mixture can be obtained by mixing two or more chemical substances. (JIS Z 7201) [Note] Examples of mixtures include paint/coating agent, ink, alloy ingot, solder, resin pellet, etc.
Article	Refers to an item with a specific shape, appearance or design that is given during production which substantially determines the functions of the item in final use rather than its chemical composition. (JIS Z 7201) [Note] Examples of articles include paints, metal plates, gear wheels, integrated circuits, electrical products, transport machineries, etc.
Contain	Refers to a state where a chemical substance is contained in products, parts, materials, and ingredients used in them. Regardless of intentional addition or non-intentional addition (including impurities, residuals/adhesion/contamination, etc. created in the process of manufacturing and transport), it is regarded as “contained” if the content rate of the chemical substance exceeds the Dynabook’s reference value (threshold).
Intentional addition	Refers to addition performed in the aim of providing a specific property to parts and materials. For example, hexavalent chromium for rust-proofing, brominated flame retardants to improve fire retardancy of plastic cabinets, etc. are applicable.
Impurities	Refers to materials that are contained in natural materials and cannot technically be removed in the refining process, materials that are created in the synthesis reaction process and cannot technically be removed, and materials that are unintentionally contained in recycled materials.
Homogeneous material	Refers to one material of uniform composition throughout or a material, consisting of a combination of materials, that cannot be disjointed or separated into different materials by mechanical actions such as unscrewing, cutting, crushing, grinding and abrasive processes. *Paint, plating, and chemically treated materials are not the Homogeneous material because they can be separated.
Delivery Prohibition Date	Refers to the day on which delivery to Dynabook is prohibited immediately: immediately prohibition of use. (Designated date: Day_ Month_ Year_): Delivery after the designated date is prohibited.
RoHS RoHS Directive	Refers to EU RoHS Directives 2011/65/EU and the related amended Directive.

4. Dynabook Chemical Substance Management Categories

Chemical substances contained in parts and materials purchased by Dynabook are managed by categorizing them into Dynabook banned substances (Banned substances, Substances banned depending on the application, Candidate substances to be banned, and Managed substances), as shown in the table below.

Chemical substance management category	Explanation	Remarks
1) Banned substances	<p>Substances that cannot be used for any purpose. If contained in a part or material, immediately discontinue and eliminate their use.</p> <p>In principle, Dynabook will not purchase parts and materials containing these substances.</p>	<p>Substances whose inclusion in products is currently regulated or is expected to be regulated in the future under laws and regulations and on environmental labels in Japan or overseas.</p>
2) Substances banned depending on the application	<p>Substances regarded as banned by Dynabook depending on the application (excluded applications).</p> <p>In excluded applications, these substances shall be treated as Managed substances.</p>	<p>Substances that Dynabook regulates on its own initiative in advance of global trends because it is widely known that their environmental impact is high and alternative substances exist.</p>
3) Candidate substances to be banned	<p>Substances that are candidates for "Banned substances" in 1) or 2) above.</p> <p>If it is contained, please promote substitution.</p>	<p>Substances that are expected to be banned in the near future under domestic and foreign laws and regulations.</p> <p>Since the threshold value, prohibited date, regulated use (excluded use), etc. have not been determined in the laws and regulations, it cannot be specified as Dynabook's "Candidate substances to be banned" at this time, but in the future based on the trends of laws and regulations, etc. Specify for Dynabook's "Candidate substances to be banned".</p> <p>Depending on the timing when laws and regulations are finalized, it may not be possible to set a grace period from the designation as Dynabook's "Banned substances" to the delivery prohibition date, so if it is contained, please proceed with the substitution as soon as possible.</p>
4) Managed substances	<p>Substances for which it is necessary to ascertain whether the specified substance is present, the amount contained, and so on.</p>	<p>Substances for which disclosure of information on their usage status in products is required, or is expected to be required in the future, under laws and regulations and on environmental labels in Japan or overseas.</p> <p>Substances for which customers have requested, or for which there is a possibility of being requested, that their usage status information in products be disclosed.</p> <p>All Dynabook-specific survey-targeted chemical substances that do not fall under the category of "Dynabook-banned substances" shall be treated as Managed substances.</p>

5. Documents to Be Submitted

The table below specifies the documents to be submitted and the format for submission.

Document	Format	Method of Submission	Chemical substances subject to the Survey ³	Remarks
Report on Chemical Substances Contained in the Product	Use/Non-use Declaration of Environment-related Substances ⁴	Submit to the requester when new products are adopted or parts are changed that affect the substances contained.	<p>Among the following Dynabook prohibited substances, there is a high risk of them being contained.</p> <ul style="list-style-type: none"> • Banned substances • Substances banned depending on the application • Candidate substances to be banned <p>And those substances that are deemed to require confirmation of their content among the managed substances.</p>	<p>Range of applicable packaging materials:</p> <p>Also covers packaging materials at the time of parts and materials delivery. Also report chemical substances contained in packaging materials under the same criteria.</p> <p>However, packaging materials that will clearly be disposed of at Dynabook bases ⁵ and for which there is no risk of migration or contamination by targeted substances from the packaging materials into parts or materials are not subject to the survey.</p>
Content Survey	EU-REACH SVHC Content Survey Response Form	In response to a survey request from the materials department, fill out our format and submit it to the requesting party.	SVHC (Substances of Very High Concern) stipulated in the EU-REACH Regulation	-
Analysis Data of RoHS Target Substances	Actual measurement data (Documents that confirm RoHS compliance can be used instead.) ⁶	Attach this to the specifications for newly adopted parts and materials and submit.	10 substances subject to RoHS (lead, mercury, cadmium, hexavalent chromium, PBB, PBDE, DEHP, DBP, BBP, DIBP)	-

³ Chemical substances subject to the survey may change or be added depending on legal and regulatory trends, customer requests, etc.

⁴ The Use/Non-use Declaration of Environment-related Substances is available on Dynabook Green Procurement website. (<https://dynabook.com/pc/env/eng/green/index.html>)

⁵ "Bases" refers to Dynabook factories and service bases both in Japan and overseas.

⁶ Refer to Dynabook Green Procurement website. (<https://dynabook.com/pc/env/eng/green/index.html>)

Chapter 2: Chemical Substances Subject to the Survey, Criteria

1. List of Chemical Substances Subject to the Survey

Chemical substances contained in parts and materials purchased by the Dynabook are managed by classifying them into four categories: 1) Banned substances, 2) Substances banned depending on the application, 3) Candidate substances to be banned, and 4) Managed substances.⁷

1) Banned substances

The substances shown in Table 2-1-1 are banned at Dynabook and cannot be used for any purpose. If contained in a part or material, their use must be immediately discontinued. In principle, Dynabook will not purchase parts and materials containing these banned substances.

Table 2-1-1: Banned substances

Category	No.	Substance (Group)	Criteria (Value)
RoHS-related chemical Substances	1	Hexavalent chromium compounds	See Table 1 of Appendix.1.
	2	Polybrominated biphenyls (PBBs)	
	3	Polybrominated diphenylethers (PBDEs)	
Other	4	Tributyl tin oxide (TBTO)	
	5	Tri-substituted organostannic compounds	
	6	Polychlorinated biphenyls (PCBs) and specific substitutes	
	7	Polychlorinated naphthalenes (having 1 to 8 chlorine atoms)	
	8	Short-chain chlorinated paraffins (SCCPs) (C10-C13)	
	9	Asbestos	
	10	Polychlorinated terphenyls (PCTs)	
	11	2-(2H-1,2,3-benzotriazol-2-yl)-4, 6-di-tert-butylphenol	
	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers	
	13	Cobalt dichloride	
	14	Dimethyl fumarate	
	15	Aluminosilicate, refractory ceramic fibers	
	16	Zirconia aluminosilicate, refractory ceramic fibers	
	17	Dibutyltin (DBT) compounds	
	18	Pentachlorothiophenol (PCTP)	
	19	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances	
	20	Perfluorohexane-1-sulphonic acid (PFHxS), its salts and PFHxS-related substances	
	21	Perfluorooctane sulfonate (PFOS), its salts and PFOS-related substances	
	22	Dechlorane plus and its syn-isomer and anti-isomer	
	23	Ozone-depleting substances	
	24	Substances included in both Annex XIV of the EU-REACH Regulation and the IEC62474 Declarable Substances List	

⁷For information on chemical substance management categories, please refer to Chapter 1, "4. Dynabook Chemical Substance Management Categories".

2) Substances Banned Depending on the Application

The substances shown in Table 2-1-2 are conditionally prohibited substances under the Dynabook. Use is permitted only for the excluded applications in the table, and the excluded applications are treated as managed substances.

Table 2-1-2: Substances Banned Depending on the Application

Category	No.	Substance (Group)	Exempted Applications
RoHS-related chemical Substances	1	Cadmium and its compounds	See Table 2-1 of Appendix.1
	2	Lead and its compounds	
	3	Mercury and its compounds	
	4	Bis(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), butylbenzylphthalate (BBP), Diisobutyl phthalate (DIBP) ⁸	
Other	5	Beryllium and its compounds	See Table 2-2 of Appendix.1
	6	Azo colorants and azo dyesthat	
	7	Polyvinyl chloride (PVC) and its copolymer ⁹	
	8	Phthalate esters other than phthalates DEHP, DBP, BBP and DIBP (listed No.4 above)	
	9	Radioactive substances	
	10	Fluorinated greenhouse gases (HFC, PFC, SF6)	
	11	Formaldehyde	
	12	Perchlorates	
	13	Nickel and its compounds	
	14	Arsenic and its compounds	
	15	Boric acid	
	16	Disodium tetraborate, anhydrous Tetraboron disodium heptaoxide, hydrate	
	17	Diocetyl tin (DOT) compounds	
	18	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	
	19	Chlorinated flame retardants	
	20	Halogenated compound (Halogenated flame retardant etc.)	
	21	Tris(2-chloroethyl) phosphate (TCEP)	
	22	Tris(2-chloro-1-methylethyl) phosphate (TCPP)	
	23	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	
	24	Polycyclic aromatic hydrocarbons (PAHs) ¹⁰	
	25	Red phosphorus ¹¹	
	26	Isopropylphenyl phosphate (PIP (3:1))	
	27	Hexachlorobutadiene (HCBd)	
	28	2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	
29	4,4'-isopropylidenediphenol (Bisphenol A)		
30	4,4'-sulfonyldiphenol (Bisphenol S)		
31	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)		
32	Perfluorohexanoic acid (PFHxA), its salts and PFHxA-related substances		

⁸ The four types of phthalates (DEHP, DBP, BBP and DIBP) are mainly used as plasticizers for soft resins, and have the property of being transferred from other products by contact (migration). Since there is a possibility of transferring from packaging to parts and materials, please report the substances contained in the packaging with the same standard (threshold).

⁹ Please report the content status using the "Use/Non-use Declaration of Environment-related Substances".

¹⁰ Applies to all the following CAS RN®: 50-32-8, 192-97-2, 56-55-3, 218-01-9, 205-99-2, 205-82-3, 207-08-9, and 53-70-3.

¹¹ Please report the content status using the "Use/Non-use Declaration of Environment-related Substances".

Category	No.	Substance (Group)	Exempted Applications
Other	33	MOAH (Aromatic hydrocarbons of mineral oil comprising from 1 to 7 aromatic rings)	See Table 2-2 of Appendix.1
	34	MOAH (Aromatic hydrocarbons of mineral oil comprising from 3 to 7 aromatic rings)	
	35	MOSH (Saturated hydrocarbons of mineral oil comprising from 16 to 35 carbon atoms)	
	36	Chlorine and bromine contained in plastic parts weighing 25g or more	

3) Candidate substances to be banned

The substances shown in Table 2-1-3 are candidates for the Dynabook ban.

These substances are candidates for the above 1) Banned substances or 2) Substances banned depending on the application. They will be banned in the Dynabook in the future, considering legal and regulatory trends. If any of these substances are contained in products, please promote substitution.

Table 2-1-3: Candidate substances to be banned

No.	Substance (Group)	Criteria (Value)
1	1,2-Bis(2,3,4,5,6-pentabromophenyl) ethane (DBDPE)	See Table 3 of Appendix.1.
2	Tetrabromobisphenol A (TBBPA)	
3	Medium Chain Chlorinated paraffins (MCCPs, C14-17, chlorination levels at or exceeding 45% chlorine by weight)	
4	Perfluorocarboxylic acids containing 15 to 21 carbon atoms in the chain (C15-C21 PFCAs), their salts and C15-C21 PFCA-related substances	
5	Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS), which is designated as a declarable substance in the latest version of chem-SHERPA	
6	Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) other than No.5 above	
7	Bisphenols (excluding Bisphenol A and Bisphenol S) ¹²	

¹² Bisphenol A and Bisphenol S are Substances banned depending on the application (Table 2-1-2. No. 29, 30).

4) Managed substances

Managed substances are all chemical substances (groups) that do not fall under the Dynabook prohibited substances and fall under the "chemSHERPA managed substances criteria (Table 2-1-4)". Please reduce or substitute.

Table 2-1-4: chemSHERPA Management Criteria

Relevant Criteria ID	Covered Laws & Regulations, Industrial Criteria
LR01	Japan Chemical Substances Control Act Class I specified chemical substance
LR02	USA Toxic Substances Control Act (TSCA): Section 6; prohibited or restricted substances
LR03	EU ELV Directive 2000 / 53 / EC
LR04	EU RoHS Directive 2015/863/EU Annex II
LR05	EU POPs Regulation (EC) No 2023/1608 Annex I
LR06	EU REACH regulation (EC) No. 1907/2006 Candidate List of SVHC for Authorization and Annex XIV
LR07	EU REACH Regulation (EC) No 2024/1328 Annex XVII (Restricted Substances)
LR08	EU Medical Device Regulation (MDR) (EU) No 2017/745 Annex I 10.4 chemical substances
LR09	China RoHS (China) Electronic Equipment Restriction and Management of the Use of Hazardous Substances in Electronic Equipment
IC01	Global Automotive Declarable Substance List (GADSL)
IC02	IEC 62474 DB Declarable substance groups and Declarable substances

Appendix.1 “List of Criteria for Banned Substances”

Appendix. 2 ”List of main reference laws”

APPENDIX.1 List of Criteria for Banned Substances

1 Banned substances

Table 1: Criteria (Reference Values) of Banned substances

CAT	No.	Substance (Group)	Applications	Criteria (Value)	Date of Abolition
RoHS-related chemical Substances	1	Hexavalent chromium compounds	① Pigments and dyes used in plastics (including rubber)	Content is 1,000 ppm or less.	Immediately
	② Pigments, paints, inks				
	③ Rust-preventive plating treatments				
			④ Batteries		
			⑤ All uses including catalysts		
			⑥ Leather products/components that come into contact with the human skin	Less than 3 ppm per total dry weight of leather	
			⑦ Packaging materials, packaging components	See Table 4	
	2	Polybrominated biphenyls (PBBs)	All uses including flame retardants for plastics	Content is 1,000 ppm or less.	Immediately
	3	Polybrominated diphenylethers (PBDEs)	All uses including flame retardants for plastics	The following (1) and (2) are satisfied. (1) Content is 1000ppm or less in all parts / materials. (2) In the case of parts/materials used for products other than those regulated by the EU RoHS Directive, Content is less than 500ppm in the Mixture or Article.	Immediately
Other	4	Tributyl Tin Oxide (TBTO)	All uses including paints, inks, preservatives, and mold inhibitors	Content is 1,000 ppm or less. Not intentionally added.	Immediately
	5	Tri-substituted organostannic compounds	All uses including paints, inks, preservatives, and mold inhibitors	Content of tin is 1,000 ppm or less. Not intentionally added.	Immediately
	6	Polychlorinated biphenyls (PCBs) and specific substitutes	All uses including insulating oils and lubricating oils	Not intentionally added.	Immediately
	7	Polychlorinated naphthalenes	All uses including lubricating oils and paints	Not intentionally added. (having 1 to 8 chlorine atoms)	Immediately
	8	Short chain chlorinated paraffin (SCCP, C:10-13)	All uses include pigments, paints, inks, lubricants, and plasticizers	Content is less than 1000ppm in the Article and Not intentionally added.	Immediately
	9	Asbestos	All uses including insulation materials and filling agents	Not intentionally added.	Immediately
	10	Polychlorinated Terphenyls (PCTs)	All uses	Content is 50 ppm or less. Not intentionally added.	Immediately
	11	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1dimethylethyl) (UV-320)	All uses	Not intentionally added.	Immediately
	12	Hexabromocyclododecane (HBCDD)	All uses	Content is 0.0075wt% (75 ppm). Not intentionally added.	Immediately
	13	Cobalt dichloride	All uses	Content is 1,000 ppm or less. Not intentionally added.	
	14	Dimethyl fumarate	All uses	Content is 0.1 ppm or less. Not intentionally added.	
	15	Refractory Ceramic Fibers, Aluminosilicate	All uses	Not intentionally added.	Immediately
	16	Refractory Ceramic Fibers, Zirconia Aluminosilicate	All uses	Not intentionally added.	Immediately
	17	Dibutyltin (DBT) compounds	All uses	1,000 ppm or less as elemental tin in material.	Immediately
	18	Pentachlorothiophenol (PCTP)	All uses	Content is 1wt% or less.	Immediately
19	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances	All uses	The following (1) and (2) are to be satisfied in the Mixture or Article. (1) The sum of C9-C14 PFCAs and their salts: Content is less than 25ppb (0.025ppm). (2) The sum of C9-C14 PFCA-related substances: Content is less than 260 ppb (0.26ppm).	Immediately	
20	Perfluorohexane-1-sulphonic acid (PFHxS), its salts and PFHxS-related substances	All uses	The following (1) and (2) are to be satisfied in the Mixture or Article. (1) The sum of PFHxS and their salts: Content is 0.0000025% (25ppb) or less. (2) The sum of PFHxS-related substances: Content is 0.0001% (1000ppb) or less.	Immediately	
21	Perfluorooctane sulfonate (PFOS), its salts and PFOS-related substances	All uses	The following (1) and (2) are to be satisfied in the Mixture or Article. (1) The sum of PFOS and their salts: Content is 0.0000025% (25ppb) or less. (2) The sum of PFOS-related substances: Content is 0.0001% (1000ppb) or less.	Immediately	

	No.	Substance (Group)	Applications	Criteria (Value)	Date of Abolition
Other	22	Dechlorane plus and its syn-isomer and anti-isomer	All uses	Content is less than 0.0001wt% (1ppm) in the Mixture or Article.	Immediately
	23	Ozone-depleting substances	All uses	Not intentionally added.	Immediately
	24	Substances included in both Annex XIV of the EU-REACH Regulation and the IEC62474 Declarable Substances List	All uses	Not intentionally added.	Immediately

2 Substances Banned Depending on the Application

For RoHS-related chemical substances, the dates for the ban on delivery are set based on the following principles:

<How to determine the delivery ban date for Dynabook in relation to the EU RoHS exemption deadline>	
1)	In principle, the delivery ban date for Dynabook is six months before the RoHS exemption deadline. Example: If the RoHS exemption deadline is "July 21, 2026," the delivery ban date for Dynabook is "January 21, 2026."
2)	If the legal exemption deadline has changed since the publication of this Management Standard, in principle, the delivery ban date for Dynabook will be six months before the changed deadline.
3)	Based on the information on the EU RoHS exemption deadline at the time of publication of this Management Standard.

Table 2-1: Exempted Applications for Substances Banned Depending on the Application and Their Criteria (Reference Values) [RoHS-related chemical Substances]

No.	Substance (Group)	Applications	RoHS Exemption 13	Criteria (Value)	Date of Abolition
1	Cadmium and its compound				
	Banned	(1) Stabilizers, pigments, and dyes used in plastics (including rubber)	-	Content is 100ppm or less.	Immediately
		(2) Pigments, paints, inks			
		(3) Surface treatments (plating, etc.), coatings			
		(4) Small fluorescent lamps, straight-tube fluorescent lamps			
		(5) All applications except those in the Declarable category			
		(6) Packaging materials, packaging components			
	Declarable	(1) Used for electrical contacts	8(b)-I	-	(Under deliberation for exemption renewal in EU) 14
		(a) Circuit breakers			
		(b) Thermal sensing controls			
		(c) Thermal motor protectors (excluding hermetic thermal motor protectors)			
		(d) AC switches rated at 6A and more at 250V AC and more, or 12A and more at 125V AC and more			
		(e) DC switches rated at 20A and more at 18V DC and more			
		(f) Switches for use at voltage supply frequency ≥ 200 Hz			
		(2) Used in striking optical filter glass types, excluding applications falling under point 39 of EU RoHS directive annex III	13(b)-(II)	-	
		(3) Used in glazes used for reflectance standards	13(b)-(III)	-	
		(4) Used in exemption applications listed in EU RoHS directive other than the above (1)~(3), having permission from adoption decision		-	15
	(5) Batteries		In compliance with EU battery regulation		
13 No. of the exempted applications in the RoHS Directive Annex III are shown.					
14 An application for extension of exemption was accepted in the EU, and it is under deliberation at the time of issuance of this Standard Manual for Management of Chemical Substances Contained in Parts and Materials. This exemption is valid during deliberation. When the deadline is decided, delivery prohibition date to Dynabook will be six months before the deadline.					
15 In principle, Dynabook set up delivery prohibition date to Dynabook as "six months" before the due date of EU RoHS exemption.					

No.	Substance (Group)	Applications	RoHS Exemption 13	Criteria (Value)	Date of Abolition
2	Lead and its compound				
	Banned	(1) Stabilizers, pigments, and dyes used in plastics (including rubber)	-	Contained at less than below: (1) In resins: 300 ppm (2) Other: 1,000ppm	Immediately
		(2) Pigments, paints, inks			
		(3) Balancer weights			
		(4) Lead solder (solder for component mounting, terminal plating, etc.)			
		(5) Used lead exceeding 0.01wt% per exterior parts in products for children 12 and under			
		(6) Used lead exceeding 0.009% per surface treatment layer such as coating in parts/materials for toys			
		(7) All applications except those in the Declarable category			
		(8) Packaging materials, packaging components			
	Declarable	(1) Used in high-melting point solder (lead-based alloys containing 85 % by weight or more lead)	7(a)	-	(Under deliberation for exemption renewal in EU) 14
		(2) Used in electrical and electronic components in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	7(c)-I	-	
		(3) Used in glass of fluorescent tubes not exceeding 0.2% by weight	5(b)	-	
		(4) Contained as an alloying element			
		(a) Less than 0.35% by weight in steel alloy for machining purposes	6(a)-I	-	
		(b) Less than 0.4% by weight in aluminium alloy for machining purposes	6(b)-II	-	
		(c) Less than 4% by weight in copper alloy	6(c)	-	
		(5) Used in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies	15(a)	-	
		(a) A semiconductor technology node of 90 nm or larger			
		(b) A single die of 300 mm ² or larger in any semiconductor technology node			
		(c) Stacked die packages with die of 300 mm ² or larger, or silicon interposers of 300 mm ² or larger			
	(6) Used in white glass used for an optical purpose	13(a)	-		
	(7) Used in ion coloured optical filter glass types	13(b)-(I)	-		
	(8) Used in glazes used for reflectance standards	13(b)-(III)	-		
	(9) Used in dielectric ceramic used in a capacitor with rated voltage of 125V AC or 250V DC or larger	7(c)-II	-		
	(10) Used in exemption applications listed in EU RoHS directive other than the above (1) ~ (9), having permission from adoption decision	-	-	15	
	(11) Batteries	-	In compliance with EU battery regulation		
<p>13 No. of the exempted applications in the RoHS Directive Annex III are shown.</p> <p>14 An application for extension of exemption was accepted in the EU, and it is under deliberation at the time of issuance of this Standard Manual for Management of Chemical Substances Contained in Parts and Materials. This exemption is valid during deliberation. When the deadline is decided, delivery prohibition date to Dynabook will be six months before the deadline.</p> <p>15 In principle, Dynabook set up delivery prohibition date to Dynabook as "six months" before the due date of EU RoHS exemption.</p>					

No.	Substance (Group)	Applications	RoHS Exemption 13	Criteria (Value)	Date of Abolition
3 Mercury and its compound					
	Banned	(1) Stabilizers, pigments, and dyes used in plastics (including rubber)	-	Content is 1000ppm or less.	Immediately
		(2) Pigments, paints, inks			
		(3) Mercury batteries			
		(4) Relays, switches, and sensors using mercury			
		(5) All applications except those in the Declarable category			
		(6) Packaging materials, packaging components			
	Declarable	(1) Used in metal halide lamps (MH).	4(e)	-	24 Feb. 2027
		(2) Used in other discharge lamps for special purposes not specified in of EU RoHS directive Annex III (2011/65/EU).	4(f)-I	-	Requested for renewal
		(3) Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required [Expires on 24 Feb. 2027]	4(f)-II	-	24 Feb. 2027
		(4) Mercury in lamps emitting light in the ultraviolet spectrum	4(f)-IV	-	
		(5) Used in exemption applications listed in EU RoHS directive other than the above (1) ~ (4), having permission from adoption decision	-	-	
		(6) Batteries		In compliance with EU battery regulation	-
4 Bis(2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP), Bis(butylbenzyl) phthalate (BBP), Diisobutyl phthalate (DIBP)					
	Banned	(1) Used in the case of parts/materials used in the product that is "Not subject to regulated EU RoHS Directive" or "Children's toy or childcare article".	-	Total content of 4 substances is 1000ppm or less.	Immediately
		(2) All applications other than above (1) (Used in the case of parts/materials used in the product that is both "regulated EU RoHS Directive" and "other than Children's toy or childcare article".)		Content of DEHP, DBP, BBP and DIBP are 1000ppm or less respectively.	
	Declarable	(1) All applications except those in the Banned category (1)	-		-
13 No. of the exempted applications in the RoHS Directive Annex III are shown.					

Table 2-2: Exempted Applications for Substances Banned Depending on the Application and Their Criteria (Reference Values) [Other]

No.	Substance (Group)	Applications	Criteria (Value)	Date of Abolition	
5 Beryllium and its compound					
	Banned	(1)	Use of Beryllium oxide	Content is 1,000 ppm or less. Not intentionally added.	Immediately
		(2)	All applications except those in the Declarable category		
	Declarable	(1)	Alloys, ceramics, glass, and semiconductors	-	-
6 Azo colorants					
	Banned	(1)	Used in a part of a product* in direct human body contact manufactured based on the premise that the product will be in continuous contact with the human body and which may produce amines when decomposed * Products such as electric carpets, electric blankets, earphones, headphones, straps, and the like.	Not produce carcinogenic amine over 30ppm when decomposed.	Immediately
		(1)	All applications except those in the Banned category (used for parts not in continuous contact with the human body)	-	
7 Polyvinyl Chloride and its copolymer					
	Banned	(1)	Packaging materials/parts (for packaging Dynabook products)	Not intentionally added.	Immediately
		(1)	All applications except those in the Banned category	-	-
8 Phthalates other than the four RoHS-related Phthalates					
	Banned	(1)	Diisononyl Phthalate: DINP, Diisodecyl phthalate: DIDP or Di-n-octyl phthalate: DNOP is used in parts/materials that is used in products that are children's toy or childcare article that can be placed in a child's mouth.	Total content of three substances 1,000 ppm or less	Immediately
		(1)	All applications except those in the Banned category	-	-
9 Radioactive substances					
	Banned	(1)	All applications other than those in the Declarable category	Not intentionally added.	Immediately
		(1)	Thorium used in the magnetron of a microwave oven	-	-
	Declarable	(2)	Krypton 85 used in the electric bulb of an LCD projector	-	-
10 Fluorinated greenhouse gases (HFC, PFC, SF6)					
	Banned	(1)	All applications other than those in the Declarable category	Not intentionally added.	Immediately
		(1)	Used as refrigerant and/or thermal insulator (HFC only) and meets the conditions and deadlines for each product and GWP (global warming potential) set in the EU F-gas regulation (2024/573)	-	-
11 Formaldehyde					
	Banned	(1)	Wooden parts	① Atmospheric concentration of 0.1 ppm or less in an airtight test chamber having a volume of at least 10 m3 (chamber method)	Immediately
		(2)	Used in a fabric part of a product* in direct human body contact manufactured based on the premise that the product will be in continuous contact with the human body * Products such as electric carpets, electric blankets, earphones, headphones, straps, and the like.	② According to the Japanese Act on Control of Household Products Containing Harmful Substances (75 ppm or less)	
	Declarable	(1)	All applications except those in the Banned category	-	-
12 Perchlorates					
	Banned	(1)	All applications to batteries except those in the Declarable category	Not intentionally added to batteries	Immediately
		(1)	Contained above 6ppb by weight per battery	-	-
	Declarable	(2)	Contained less than 6ppb by weight per battery	-	-
13 Nickel and its compound					
	Banned	(1)	Applications with prolonged contact with human skin	Not intentionally added.	Immediately
		(1)	All applications except those in the Banned category	-	-
14 Arsenic and its compound					
	Banned	(1)	Use of Diarsenic Pentoxide	Content is 1,000 ppm or less. Not intentionally added.	Immediately
		(2)	All applications other than those in the Declarable category		
	Declarable	(1)	Used in the lamp of LCD projector (Diarsenic trioxide)	-	-
		(2)	Exempted components* *Semiconductors, photosensitizers, magnet filters, copper foil, and batteries		

No.	Substance (Group)	Applications	Criteria (Value)	Date of Abolition
15 Boric acids				
	Banned	(1) All applications other than those in the Declarable category	Content is 1,000 ppm or less. Not intentionally added.	Immediately
	Declarable	(1) Polarizers (made of PVA)	-	-
		(2) Glass		
		(3) Adhesives		
16 Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate				
	Banned	(1) All applications other than those in the Declarable category	Content is 1,000 ppm or less. Not intentionally added.	Immediately
	Declarable	(1) Polarizers (made of PVA)	-	-
		(2) Glass		
		(3) Adhesives		
		(4) Fiber		
17 Dioctyltin (DOT) compounds				
	Banned	(1) Two-component room temperature vulcanization molding kits (RTV-2 molding kits)	1,000 ppm or less as elemental tin in material.	Immediately
	Declarable	(1) All applications except those in the Banned category	-	-
18 Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances				
	Banned	(1) All applications other than those in the Declarable category	The following (1) and (2) are to be satisfied in the Mixture or Article. 16 (1) PFOA (including its salt): Content is 25ppb or less. (2) Combination of one or multiple PFOA-related substances: Total content is 1000ppb (1ppm) or less.	Immediately
	(2) Photo coating used in printing plates, film, and documents.			
	(3) Exemptions listed in EU POPs regulation Annex I Part A other than above and having permission from adoption decision.			
16 Total of the substances having these CAS RN®.: 335-67-1, 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 376-27-2, 3108-24-5				
19 Chlorinated flame retardants				
	Banned	(1) All applications other than those in the Declarable category	Content is 1,000 ppm or less. Not intentionally added.	Immediately
	Declarable	(1) Difficult to substitute, and permission obtained from the adoption decision department within Dynabook	-	-
20 Halogenated compounds (Halogenated flame retardant etc.)				
	Banned	(1) Used in enclosure and stand of electronic displays including televisions, monitors and digital signage displays with a screen area over 100cm ² .	Total content of all halogen elements in the homogeneous material is 0.1wt% or less.	Immediately
		Declarable	(1) All applications except those in the Banned category	-
	(2) Although it falls under the "prohibited use category", it is used in products with limited destinations and having permission from adoption decision.			

No.	Substance (Group)	Applications	Criteria (Value)	Date of Abolition		
21 Tris (2-chloroethyl) phosphate (TCEP)						
	Banned	(1)	Products for children aged 12 and younger, and home furnishings covered with fiber, etc.	Content is 1,000 ppm or less. Not intentionally added.	Immediately	
		(2)	All applications other than those in the Declarable category			
	Declarable	(1)	Used in motor vehicles or replacement parts or replacement equipment for motor vehicles.		-	-
		(2)	Used in commercial or residential building insulation or wiring			
		(3)	Used in desktop and laptop computers, audio and video equipment, calculators, wireless telephones, game consoles, handheld devices incorporating a screen that are used to access interactive software and their associated peripherals, and cables, adaptors, and other similar connecting devices; or.			
(4)	Used in storage media, such as compact discs, for interactive software, such as computer games.					
22 Tris(2-chloro-1-methylethyl) phosphate (TCPP)						
	Banned	(1)	Products for children aged 12 and younger, and home furnishings covered with fiber, etc.	Content is 1,000 ppm or less. Not intentionally added.	Immediately	
	Declarable	(1)	All applications except those in the Banned category			-
23 Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)						
	Banned	(1)	Products for children aged 12 and younger, and home furnishings covered with fiber, etc.	Content is 1,000 ppm or less. Not intentionally added.	Immediately	
		(2)	All applications other than those in the Declarable category			
	Declarable	(1)	Used in motor vehicles or replacement parts or replacement equipment for motor vehicles.		-	-
		(2)	Used in commercial or residential building insulation or wiring			
		(3)	Used in desktop and laptop computers, audio and video equipment, calculators, wireless telephones, game consoles, handheld devices incorporating a screen that are used to access interactive software and their associated peripherals, and cables, adaptors, and other similar connecting devices; or.			
(4)	Used in storage media, such as compact discs, for interactive software, such as computer games.					
24 Polycyclic aromatic hydrocarbons (PAHs) 17						
	Banned	(1)	Rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Content concentration of less than 1 ppm for each targeted PAH	Immediately	
	Declarable	(1)	All applications except those in the Banned category			-
17 Substances having these CAS RN®: 50-32-8, 192-97-2, 56-55-3, 218-01-9, 205-99-2, 205-82-3, 207-08-9, 53-70-3						
25 Red phosphorus						
	Banned	(1)	Resin or rubber	Content is 1,000 ppm or less. Not intentionally added.	Immediately	
		(1)	All applications except those in the Banned category			
	Declarable	(2)	Falls under the category of Banned, but is difficult to substitute and permission obtained from the adoption decision department within Dynabook		-	-
26 Isopropylphenyl phosphate (PIP (3:1))						
	Banned	(1)	All applications other than those in the Declarable category	Not intentionally added The concentration of PIP (3:1) in mixtures and articles is less than 0.1% by weight (1,000 ppm).	Immediately	
		(1)	Used in lubricants or greases.			
	Declarable	(2)	Used in products or articles made of plastic recycled from products or articles containing PIP (3:1), where no new PIP (3:1) was added during the production of the products or articles made of recycled plastic.	-	-	
		(3)	Using exemptions listed in USA TSCA SECTION 6 PBT-chemicals other than above and having permission from adoption decision.			
27 Hexachlorobutadiene (HCBD)						
	Banned	(1)	All applications other than those in the Declarable category	Not intentionally added.	Immediately	
	Declarable	(1)	Unintentional production of HCBD as a byproduct in the production of chlorinated solvents			-

No.	Substance (Group)	Applications	Criteria (Value)	Date of Abolition
28 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)				
	Banned	(1) All applications other than those in the Declarable category	Not intentionally added.	Immediately
	Declarable	(1) Used in articles	–	–
29 4,4'-isopropylidenediphenol (Bisphenol A)				
	Banned	(1) Used in thermal paper	Used less than 0.02% by weight	Immediately
	Declarable	(1) All applications except those in the Banned category	–	–
30 4,4'-sulfonyldiphenol (Bisphenol S)				
	Banned	(1) All applications other than those in the Declarable category	Used less than 0.02% by weight	Immediately
	Declarable	(1) Used for other than thermal paper	–	–
		(2) Used in thermal paper and used for products with a limited destination, having permission from adoption decision.		
31 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)				
	Banned	(1) All applications other than those in the Declarable category	Content is 1ppm (0.0001%) or less in the Mixture or Article.	Immediately
	Declarable	(1) Used in Tri-acetyl cellulose (TAC) film in polarizers and obtained permission from the adoption decision department within Dynabook	–	–
		(2) Used in parts for Motor vehicles, having permission from the adoption decision department within Dynabook		
32 Perfluorohexanoic acid (PFHxA), its salts and PFHxA-related substances				
	Banned	(1) Used for applications below:	The following (1) and (2) are to be satisfied in the Mixture or Article. (1) The sum of PFHxA and their salts: Content is less than 0.0000025% (2) The sum of PFHxA-related substances(25ppb) and their combinations: Content is less than 0.0001% (1000ppb).	Immediately
		(a) Textiles		
		(b) Leather, Furs and Hides		
	Declarable	(1) All applications except those in the Banned category	–	–
33 MOAH (Aromatic hydrocarbons of mineral oil comprising from 1 to 7 aromatic rings)				
	Banned	(1) All applications except those in the Declarable category	Total content in the ink is 0.1% or less for packaging 18 and printing 19.	Immediately
	Declarable	(1) Packagings and print that meet all of the following conditions • Not for delivery to France • Used for products with a limited destination other than France, having permission from adoption decision.	–	–
		(2) Packaging for parts/materials that meet all of the following conditions • Not for delivery to France • Clearly to be discarded at Dynabook site outside France	–	–
34 MOAH (Aromatic hydrocarbons of mineral oil comprising from 3 to 7 aromatic rings)				
	Banned	(1) All applications except those in the Declarable category	Total content in the ink is 0.1% or less for packaging 18 and printing 19.	Immediately
	Declarable	(1) Packagings and print that meet all of the following conditions • Not for delivery to France • Used for products with a limited destination other than France, having permission from adoption decision.	–	–
		(2) Packaging for parts/materials that meet all of the following conditions • Not for delivery to France • Clearly to be discarded at Dynabook site outside France	–	–
<p>18 Packaging refers to something that is used for transportation, protection, and packing of goods, and in principle they become unnecessary as soon as the product is used. Printing on packaging and printed labels affixed to packaging are within the scope of the packaging. [Examples of packaging materials] Cardboard paper, plastic bags, cushioning materials, protective films, adhesive tapes, staples, bands for securing loads, and labels, paints, and inks for them</p> <p>19 Prints not used or included together with Dynabook products (such as delivery slip, Inspection report) are excluded. Direct printing (such as logos) onto Dynabook products are inapplicable to the printing written in this section.</p>				

No.	Substance (Group)	Applications	Criteria (Value)	Date of Abolition
35 MOSH (Saturated hydrocarbons of mineral oil comprising from 16 to 35 carbon atoms)				
	Banned	(1) All applications except those in the Declarable category	Total content in the ink is 0.1% or less for packaging 18 and printing 19.	Immediately
	Declarable	(1) Packagings and print that meet all of the following conditions <ul style="list-style-type: none"> • Not for delivery to France • Used for products with a limited destination other than France, having • Permission from adoption decision. 	–	–
		(2) Packaging for parts/materials that meet all of the following conditions <ul style="list-style-type: none"> • Not for delivery to France • Clearly to be discarded at Dynabook site outside France 	–	–
36 Chlorine and bromine contained in plastic parts weighing 25g or more				
	Banned	(1) Materials used in plastic parts weighing 25 grams or more, excluding the following exempted items. <<Exempted parts>> Printed circuit boards (PWB), cables and wiring, fans, plastic parts (other than external casings) containing brominated or chlorinated flame retardants in order to comply with mandatory fire safety standards (e.g., UL 94 V0, V1, V2, 5VA or 5VB) for which other non-halogenated flame retardants cannot be used to achieve the required material properties and performance, and printed circuit board electronic components.	Bromine and chlorine must not exceed 1,000 ppm by weight, respectively. Furthermore, plastic parts with a PCR content of 25% or more must not contain bromine or chlorine exceeding 5,000 ppm by weight, respectively.	Immediately
	Declarable	(1) All applications except those in the Banned category.	–	–
<p>18 Packaging refers to something that is used for transportation, protection, and packing of goods, and in principle they become unnecessary as soon as the product is used.</p> <p>Printing on packaging and printed labels affixed to packaging are within the scope of the packaging. [Examples of packaging materials] Cardboard paper, plastic bags, cushioning materials, protective films, adhesive tapes, staples, bands for securing loads, and labels, paints, and inks for them</p> <p>19 Prints not used or included together with Dynabook products (such as delivery slip, Inspection report) are excluded. Direct printing (such as logos) onto Dynabook products are inapplicable to the printing written in this section.</p>				

3 Candidate substances to be banned

Table 3: Criteria (Reference Values) of Candidate substances to be banned

No.	Substance (Group)	Applications	Criteria (Value)	Date of Abolition
1	1,2-Bis(2,3,4,5,6-pentabromophenyl) ethane (DBDPE)	All uses	Not intentionally added.	Based on trends such as laws and regulations, Dynabook will ban its use in the future. 20
2	Tetrabromobisphenol A (TBBPA)			
3	Medium Chain Chlorinated paraffins (MCCPs, C14-17, chlorination levels at or exceeding 45% chlorine by weight)			
4	Perfluorocarboxylic acids containing 15 to 21 carbon atoms in the chain (C15-C21 PFCAs), their salts and C15-C21 PFCA-related substances			
5	Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS), which have designated as a declarable substance in the latest version of chemSHERPA			
6	Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) other than No.5 above			
7	Bisphenols (excluding Bisphenol A and Bisphenol S) 21			
<p>20 Depending on the timing when laws and regulations are finalized, it may not be possible to set a grace period from the designation as Dynabook's "Banned substances" to the delivery prohibition date, so if it is contained, please proceed with the substitution as soon as possible. Refer to Chapter 1 "4. Dynabook Chemical Substance Management Categories."</p> <p>21 Bisphenol A and Bisphenol S are Substances Banned Depending on the Application (Table 2-1-2 and Appendix.1 Table 2-2 No. 29, 30).</p>				

Table 4: Criteria for Content of Heavy Metals (Cadmium, Lead, Mercury, Hexavalent Chromium) in Packaging Materials and Components

Categories	Applications		Criteria (Value)	Date of Abolition
Banned	(1)	Materials and components for product packaging (cardboard, bags, cushioning materials, sheeting, tape, staples, binding bands, labels, cushions, paint, ink, etc.)	Total content 100 ppm or less in each component, ink, or paint that makes up the package	Immediately
	(2)	Packaging materials for servicing parts (cardboard, bags, cushioning materials, sheeting, tape, staples, binding bands, labels, cushions, paint, ink, etc.)		
Declarable	(1)	Packaging materials and components used for delivered parts and materials	-	-

APPENDIX.2 List of main reference laws

区分/ Cat. / 分類	No.	物質名/Substances/物质名词	主な参照法令等/Main reference laws, etc./主要参照法令等
全面的の使用禁止/Presence of banned substances in the product /全面禁止使用物质			
RoHS関連化学物質/RoHS-related chemical Substances/RoHS相关化学物质	1	六価クロム化合物	EU RoHS指令、EU REACH規則 附属書XVII
		Hexavalent chromium compound	EU RoHS directive, EU REACH regulation AnnexXVII
		六价铬化合物	EU RoHS指令、EU REACH規則 附页XVII
	2	ポリ臭化ビフェニル類 (PBB類)	EU RoHS指令、EU REACH規則 附属書XVII
		Polybrominated biphenyls (PBBs)	EU RoHS directive, EU REACH regulation AnnexXVII
		多溴化联苯类 (PBB类)	EU RoHS指令、EU REACH規則 附页XVII
3	ポリ臭化ジフェニルエーテル類(PBDE類)	化審法、EU RoHS指令、EU REACH規則 附属書XVII、 EU POPs規則 附属書I、米国 TSCA	
	Polybrominated diphenyl ethers (PBDEs)	Japan CSCL, EU RoHS directive, EU REACH regulation An- nexXVII, EU POPs regulation AnnexI, USA TSCA	
	多溴联苯醚类 (PBDE类)	化審法、EU RoHS指令、EU REACH規則 附页XVII、 EU POPs規則 附页I、美国 TSCA	
その他/Others/其他	4	トリブチルスズ=オキシド(TBTO)	化審法
		Tributyl Tin Oxide (TBTO)	Japan CSCL
		三丁基氯化锡 (TBTO)	化審法
	5	三置換有機スズ化合物	化審法、EU REACH規則 附属書XVII
		Tri-substituted organostannic compounds	Japan CSCL, EU REACH regulation Annex XVII
		三取代有机锡化合物	化審法、EU REACH規則 附页XVII
	6	ポリ塩化ビフェニル類(PCB類)、及び特定代替物質	化審法、EU POPs規則 附属書I
		Polychlorinated biphenyls (PCBs) and specific substitutes	Japan CSCL, EU POPs regulation Annex I
		多氯联苯类 (PCB类)、及特定代替物 质	化審法、EU POPs規則 附页I
	7	ポリ塩化ナフタレン	化審法、EU POPs規則 附属書I
		Polychlorinated naphthalenes	Japan CSCL, EU POPs regulation Annex I
		聚氯萘	化審法、EU POPs規則 附页I
	8	短鎖型塩化パラフィン(SCCP, C:10-13)	EU POPs規則 附属書I
		Short chain chlorinated paraffin (SCCP, C:10-13)	EU POPs regulation AnnexI
		短链氯化石蜡 (SCCP, C:10-13)	EU POPs規則 附页I
9	アスベスト類	安衛法、EU REACH規則 附属書XVII	
	Asbestos	Japan Industrial Safety and Health Act, EU REACH regulation Annex XVII	
	石棉类	安卫法、EU REACH規則 附页XVII	
10	ポリ塩化ターフェニル類 (PCT類)	EU REACH規則 附属書XVII	
	Polychlorinated Terphenyls (PCTs)	EU REACH regulation Annex XVII	
	聚氯联苯类 (PCT类)	EU REACH規則 附页XVII	
11	2-(2H-1,2,3-ベンゾ トリアゾール-2-イル)-4,6-ジ-tert-ブチルフェノール(UV-320)	化審法	
	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (UV-320)	Japan CSCL	
	2-(2H)-苯并三氮唑-2-基)-4,6-双(1,1-二甲基乙基) 苯酚 (UV-320)	化審法	
12	ヘキサブロモシクロドデカン(HBCDD)	化審法、EU POPs規則	
	Hexabromocyclododecane (HBCDD)	Japan CSCL, EU POPs regulation	
	六溴环十二烷 (HBCDD)	化審法、EU POPs規則	
13	塩化コバルト	(EU REACH規則) ※	
	Cobalt dichloride	(EU REACH regulation) ※	
	氯化钴	(EU REACH規則) ※	
14	ジメチルフマレート	EU REACH規則 附属書XVII	
	Dimethyl fumarate	EU REACH regulation Annex XVII	
	富马酸二甲酯	EU REACH規則 附页XVII	
15	アルミノ珪酸塩、耐火セラミック繊維	(EU REACH規則)	
	Refractory Ceramic Fibers, Aluminosilicate	(EU REACH regulation)	
		硅酸铝、耐火陶瓷纤维	(EU REACH規則)

No.	物質名/Substances/物质名词	主な参照法令等/Main reference laws, etc./主要参照法令等	
その他/Others/其他	16	ジルコニアアルミノ珪酸塩、耐火セラミック繊維 Refractory Ceramic Fibers, Zirconia Aluminosilicate 氧化锆硅酸铝、耐火陶瓷纤维	(EU REACH規則) (EU REACH regulation) (EU REACH規則)
	17	ジブチルスズ化合物(DBT) Dibutyltin (DBT) compounds	EU REACH 附属書XVII EU REACH Annex XVII
		二丁錫化合物 (DBT)	EU REACH 附頁XVII
	18	ペンタクロロベンゼンチオール(PCTP) Pentachlorothiophenol (PCTP)	米国 TSCA USA TSCA
		五氟代苯硫酚 (PCTP)	美国 TSCA
	19	炭素数が9から14のパーフルオロカルボン酸(C9-C14 PFCA)とその塩およびC9-C14 PFCA関連物質	EU REACH規則 附属書XVII
		Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCA), their salts and C9-C14 PFCA-related substances	EU REACH regulation Annex XVII
		含9到14个碳原子的全氟羧酸 (C9-C14 PFCA)、其盐类和C9-C14 PFCA相关物质	EU REACH 附頁XVII
	20	ペルフルオロヘキサンスルホン酸(PFHxS)とその塩およびPFHxS関連物質	スイス化学品法、POPs条約
		Perfluorohexane-1-sulphonic acid (PFHxS), its salts and PFHxS-related substances	Swiss Chemicals Ordinance, POPs convention
		全氟己基磺酸 (PFHxS)、其盐类和PFHxS相关物质	瑞士化学品法、POPs条約
	21	パーフルオロオクタンスルホン酸(PFOS)とその塩およびPFOS関連物質	EU POPs規則 (ドラフト)、化審法、カナダ環境保護法
		Perfluorooctane sulfonate (PFOSs), its salt and PFOS-related	EU POPs regulation (draft), Japan CSCL, CEPA 1999
	22	全氟辛烷磺酸盐 (PFOS)、其盐类和PFOS相关物质	EU POPs規則(草案)、化審法、加拿大环境保护法
		デクロランプラス並びにそのsyn-異性体及びanti-異性体 Dechlorane plus and its syn-isomer and anti-isomer	EU POPs規則 EU POPs regulation
	23	Dechlorane plus 及其顺式异构体和反式异构体	EU POPs規則
		オゾン層破壊物質	モントリオール議定書、米国フロン税、EU オゾン層破壊物質規則 (2024/590)
		Ozone-depleting substances	Montreal protocol, USA Chlorofluorocarbon tax, Regulation (EU) 2024/590
	24	臭気層破壊物質	蒙特利尔议定书、美国氟利昂税、EU 臭氧层破坏物质法规 (2024/590)
		EU-REACH規則 附属書XIVおよびIEC62474Declarable Substances Listの双方に含まれる物質	米国EPEAT基準
		Substances included in both Annex XIV of the EU-REACH Regulation and the IEC62474 Declarable Substances List	US-EPEAT Standard
		EU-REACH法規 附录XIV和IEC62474 Declarable Substances List两者中包含的物质	美国-EPEAT标准
	RoHS 条件付禁止物質/Presence of banned substances depending on application/附帯条件禁止使用物质		
	RoHS関連化学物質/RoHS-related chemical Substances/RoHS相关化学物质	1	カドミウム及びその化合物 Cadmium and its compounds
镉及其化合物			EU RoHS指令、EU REACH規則 附頁XVII
2		鉛及びその化合物 Lead and its compounds	EU RoHS指令、EU REACH規則 附属書XVII、米国消費者製品安全改善法 (CPSIA)
		铅及其化合物	EU RoHS指令、EU REACH規則 附頁XVII、美国消费者产品安全改善法 (CPSIA)
3		水銀及びその化合物 Mercury and its compounds	EU RoHS指令、EU REACH規則 附属書XVII EU RoHS directive, EU REACH regulation AnnexXVII
		汞及其化合物	EU RoHS指令、EU REACH規則 附頁XVII
4		フタル酸ジ(2-エチルヘキシル)(DEHP)、フタル酸ジブチル(DBP)、フタル酸ブチルベンジル(BBP)、フタル酸ジイソブチル(DIBP)	EU RoHS指令 (欧州委員会委任指令2015/863) 、EU REACH規則附属書XVII、米国消費者製品安全改善法 (CPSIA)
		Bis(2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP), Bis(butylbenzyl) phthalate (BBP), Diisobutyl phthalate (DIBP)	EU RoHS directive (EU COMMISSION DELEGATED DIRECTIVE 2015/863), EU REACH regulation AnnexXVII, USA CPSIA
		邻苯二甲酸(2-乙基己基酯) (DEHP)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二异丁酯 (DIBP)	EU RoHS指令 (欧洲委员会委任指令2015/863) 、EU REACH規則附頁XVII、美国消费者产品安全改善法 (CPSIA)

No.	物質名/Substances/物质名词	主な参照法令等/Main reference laws, etc./主要参照法令等
1	ベリリウム及びその化合物	-
	Beryllium and its compound	-
2	アゾ染料・顔料	EU REACH規則 附属書XVII
	Azo colorants	EU REACH regulation Annex XVII
3	偶氮染料、顔料	EU REACH規則 附頁XVII
	ポリ塩化ビニル及びそのコポリマー	-
4	Polyvinyl Chloride and its copolymer	-
	RoHS関連のフタル酸エステル4物質以外のフタル酸エステル類	EU REACH規則 附属書XVII、米国消費者製品安全改善法(CPSIA)
5	Phthalates	EU REACH regulation Annex XVII, USA CPSIA
	RoHS相対的4種邻苯二甲酸酯物质以外的邻苯二甲酸酯类	EU REACH規則 附頁XVII、美国消费者产品安全改善法 (CPSIA)
6	放射性物質	放射性同位元素等による放射線障害の防止に関する法律、核原料物質、核燃料物質及び原子炉の規制に関する法律
	Radioactive substances	Act on Prevention of Radiation Hazards due to Radioisotopes, etc., Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material and Reactors
7	放射性物質	关于防止放射性同位素等导致的放射线损害的法律、关于核原料物质、核燃料物质及原子反应堆规定的法律
	フッ素系温室効果ガス(HFC, PFC, SF6)	EU Fガス規則 (2024/573)
8	Fluorinated greenhouse gases (HFC, PFC, SF6)	Regulation (EU) 2024/573
	氟系温室效应气体 (HFC, PFC, SF6)	EU F气体规定 (2024/573)
9	ホルムアルデヒド	ドイツ 化学品禁止規則、デンマーク ホルムアルデヒド規制
	Formaldehyde	Germany Chem Verbots V, Denmark formaldehyde regulations
10	甲醛	德国化学品禁止规则、丹麦甲醛规定
	過塩素酸塩	米国加州 過塩素酸塩管理規則
11	Perchlorates	USA CA Perchlorate management rules
	高氯酸盐	美国加州 高氯酸盐管理规则
12	ニッケル及びその化合物	EU REACH規則 附属書XVII
	Nickel and its compound	EU REACH regulation Annex XVII
13	镍及其化合物	EU REACH規則 附頁XVII
	ヒ素及びその化合物	(EU REACH規則)
14	Arsenic and its compound	(EU REACH regulation)
	砷及其化合物	(EU REACH規則)
15	ホウ酸	(EU REACH規則)
	Boric acid	(EU REACH regulation)
16	硼酸	(EU REACH規則)
	四ホウ酸二ナトリウム無水物、四ホウ酸二ナトリウム水和物	(EU REACH規則)
17	Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate	(EU REACH regulation)
	无水四硼酸二钠、水合四硼酸二钠	(EU REACH規則)
18	ジオクチルスズ化合物 (DOT)	EU REACH規則 附属書XVII
	Diocetyl tin (DOT) compounds	EU REACH regulation Annex XVII
19	二辛基錫化合物 (DOT)	EU REACH規則 附頁XVII
	パーフルオロオクタン酸(PFOA)とその塩およびPFOA関連物質	EU POPs規則
20	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	EU POPs regulation
	全氟辛酸 (PFOA)及其盐类和PFOA关联物质	EU POPs規則 附頁I
21	塩素系難燃剤	< Dynabook独自規制 >
	Chlorinated flame retardants	< Dynabook regulation >
22	氟系阻燃剂	< 玳能本独有规定 >
	ハロゲン化合物(ハロゲン系難燃剤等)	規則(EU) 2019/2021 (電子ディスプレイ)、米国ワシントン州法
23	Halogenated compound (Halogenated flame retardant etc.)	Regulation (EU) 2019/2021 (electronic display), USA Washington state law
	鹵素化合物(鹵素阻燃剂等)	規則(欧盟)2019/2021(电子显示器)、美国华盛顿州法律

その他/Others/其他

No.	物質名/Substances/物质名词	主な参照法令等/Main reference laws, etc./主要参照法令等
17	リン酸トリス(2-クロロエチル)(TCEP)	米国バーモント州Act85、米国DC.Law 21-108/2016、(EU REACH規則)
	Tris (2-chloroethyl) phosphate (TCEP)	USA VT Act85, US DC. Law 21-108/2016 (EU REACH regulation)
	磷酸三氯乙酯 (TCEP)	美国佛蒙特州Act85、美国DC.Law 21-108/2016、(EU REACH規則)
18	リン酸トリス(1-メチル-2-クロロエチル)(TCPP)	米国バーモント州Act85
	Tris(2-chloro-1-methylethyl) phosphate (TCPP)	USA VT Act85
	磷酸三氯丙脂 (TCPP)	美国佛蒙特州Act85、美国DC.Law 21-108/2016
19	リン酸トリス(1,3-ジクロロ-2-プロピル)(TDCPP)	米国バーモント州Act85、米国DC.Law 21-108/2016
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	USA VT Act85, US DC. Law 21-108/2016
	磷酸三(1,3-二氯丙基) 酯(TDCPP)	美国佛蒙特州Act85
20	多環芳香族炭化水素 (PAH)	EU REACH規則 附属書XVII
	Polycyclic aromatic hydrocarbons (PAHs)	EU REACH regulation Annex XVII
21	多環芳烃 (PAH)	EU REACH規則 附页XVII
	赤リン	< Dynabook独自規制 >
	Red phosphorus	< Dynabook regulation >
22	紅磷	< 玳能本独有規定 >
	リン酸イソプロピルフェニル(PIP(3:1))	米国 TSCA
	Isopropylphenyl phosphate (PIP (3:1))	USA TSCA
23	異丙基苯酚磷酸酯 (PIP (3:1))	美国 TSCA
	ペルククロブタ-1,3-ジエン(HCBD)	米国 TSCA
	Hexachlorobutadiene (HCBD)	USA TSCA
24	1,1,2,3,4,4-六氯-1,3-丁二烯 (HCBD)	美国 TSCA
	2,4,6-トリ-tert-ブチルフェノール(2,4,6-TTBP)	米国 TSCA
	2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	USA TSCA
25	2,4,6-三(1,1-二甲基乙基) 苯酚(2,4,6-TTBP)	美国 TSCA
	4,4'-プロパン-2,2-ジイルジフェノール(ビスフェノールA)	EU REACH規則 附属書XVII、スイス化学品法、米国コネチカット州法
	4,4'-isopropylidenediphenol (Bisphenol A)	EU REACH regulation AnnexXVII, Swiss Chemicals Ordinance, USA CT state law
26	双酚A	EU REACH規則 附页XVII、瑞士化学品法、美国康涅狄格州法案
	ビス(4-ヒドロキシフェニル)スルホン(ビスフェノールS)	スイス化学品法
	4,4'-sulfonyldiphenol (Bisphenol S)	Swiss Chemicals Ordinance
27	双酚S	瑞士化学品法
	2-(2H-ベンゾトリアゾール-2-イル)-4,6-ジ-tert-ペンチルフェノール (UV-328)	EU POPs規則
	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	EU POPs regulation
28	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 (UV-328)	EU POPs規則
	パーフルオロヘキサノ酸(PFHxA)とその塩およびPFHxA関連物質	EU REACH規則 附属書XVII (ドラフト)
	Perfluorohexanoic acid (PFHxA), its salts and PFHxA-related substances	EU REACH regulation AnnexXVII (draft)
29	全氟己酸 (PFHxA)、其盐类和PFHxA相关物质	EU REACH規則 附页XVII (草案)
	MOAH(1個以上7個以下の芳香族環で構成される鉱物油芳香族炭化水素)	フランス国内法
	MOAH (Aromatic hydrocarbons of mineral oil comprising from 1 to 7 aromatic rings)	French decree
	MOAH (由不少于1个和不多于7个芳香环组成的矿物油芳香碳氢化合物)	法国国内法

その他/Others/其他

	No.	物質名/Substances/物质名词	主な参照法令等/Main reference laws, etc./主要参照法令等	
その他/Others/其他	30	MOAH(3個以上7個以下の芳香族環で構成される鉱物油芳香族炭化水素)	フランス国内法	
		MOAH (Aromatic hydrocarbons of mineral oil comprising from 3 to 7 aromatic rings)	French decree	
		MOAH (由不少于3个和不多于7个芳香环组成的矿物油芳香碳氢化合物)	法国国内法	
	31	MOSH(16個以上35個以下の炭素原子で構成される鉱物油飽和炭化水素)	フランス国内法	
		MOSH (Saturated hydrocarbons of mineral oil comprising from 16 to 35 carbon atoms)	French decree	
		MOSH (由不少于16个和不多于35个碳原子组成的矿物油饱和碳氢化合物)	法国国内法	
	32	25g以上のプラスチック部品に含まれる塩素、及び臭素	米国EPEAT基準	
		Chlorine and bromine contained in plastic parts weighing 25g or more	US-EPEAT Standard	
		25g以上の塑料部件中所含の氯及溴	美国-EPEAT标准	
使用禁止候補物質/Candidate substances to be banned/禁止使用候補物质				
	1	1,2-ビス(2,3,4,5,6-ペンタブロモフェニル)エタン (DBDPE)	カナダ環境保護法	
		1,2-Bis(2,3,4,5,6-pentabromophenyl) ethane (DBDPE)	CEPA 1999	
		十溴二苯乙烷 (DBDPE)	加拿大环境保护法	
	2	テトラブロモビスフェノールA (TBBPA)	EU RoHS指令	
		Tetrabromobisphenol A (TBBPA)	EU RoHS directive	
		四溴双酚A (TBBPA)	EU RoHS指令	
	3	中鎖塩素化パラフィン(MCCPs、C14-17、塩素化率45wt%以上)	EU POPs規則 (ドラフト)	
		Medium Chain Chlorinated Paraffins (MCCPs, C14-17, chlorination levels at or exceeding 45% chlorine by weight)	EU POPs regulation (draft)	
		中鎖氯化石蜡 (MCCPs, C14-17, 氯化率 45wt% 以上)	EU POPs規則(草案)	
	4	炭素数が15から21のパーフルオロカルボン酸(C15-C21 PFCA)とその塩およびC15-C21 PFCA関連物質	POPs条約、カナダ環境保護法	
		Perfluorocarboxylic acids containing 15 to 21 carbon atoms in the chain (C15-C21 PFCA), their salts and C15-C21 PFCA-related	POPs convention, CEPA 1999	
	5	chemSHERPA最 版の管理対象物質に指定されている ペルフルオロアルキル物質およびポリフルオロアルキル物質 (PFAS)	米国特定州 包装材料有害物質規則 US Specified State TIP 美国特定州包装材料有害物质规制	
		Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS), which is designated as a declarable substance in the latest version of chemSHERPA		
		被指定为chemSHERPA最新版的管理对象物质的全氟烷基和多氟烷基物质 (PFAS)		
	6	上記No.5以外のペルフルオロアルキル物質およびポリフルオロアルキル物質		
		Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) other than No.5 above		
		上述No.5以外的全氟烷基和多氟烷基物质 (PFAS)		
	7	ビスフェノール類 (ビスフェノールA、ビスフェノールSは除く)	欧州、米国、カナダの法規制	
		Bisphenols (excluding Bisphenol A and Bisphenol S)	Regulations in Europe, USA, and Canda	
			双酚类 (双酚A、双酚S除外)	欧洲、美国、加拿大的法规

※“(EU REACH規則)”の記載は認可対象SVHCとしてリストされているという意味
“(EU REACH regulation)” means the substance which was listed in Authorization List of SVHC.
“(EU REACH规则)” 的记载为列为许可对象SVHC之意

Standard Manual for Management of Chemical
Substances Contained in Parts and Materials



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