Appendix 3. Regulated Substances List
Note 1: When the prohibited material contains 50% or more of the threshold, the proof material that doesn't exceed the threshold is demanded. And environmental safety manager

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determine the need of internal analysis. Note 2: The chemical substancel not published in this table with the substance that corresponds to the PRTR law, GADSL and REACH SVHC does the same management as "Managed substances". REACH SVHC is shown in another sheet of this file.

Note 3: They are completely observed when provided for the chemical substance not published in this table by the agreement, the law, the ordinance, and the industry indicator, etc. Note 4: The chemical substance not published in this table might be treated as a use prohibited material limited according to the customer request for the customer.

Note 5: If the customer requests exceeds this table, we should respond the customer individually. Such cases are shown in another sheet of this file.

	Name of substance	Chemical substance no.	O : F △ : F	Releva	int at c	Ū			Concentration and application limits	Remarks Prohibited substances: Substances that are prohibited to purchase, carry in, use and contain in the product Abolished substances: Substances that need to be abolished by a defined period of time
No.			Specific prohibited substances	Prohibited substances	De J	adline	Managed substances * Specific managed substances			Managed substances: Substances that need management of the consumption Specific prohibited substances: Six substances that are regulated *1:Safety and Health Law"Specified Chemical Substance trouble prevention rule", "O"=Special management substance(23) *2: "O"=It is an agreed substance as for the customer requirement.
1	Cadmium and its compounds	CAS No. 7440-43-9/-	_	_	Yea	r Month	Wa.	0	[Permissible concentration: under 5ppm] Plastic, ink, rubber and paint	Heavy metals, ELV Directive ,RoHS Directive , REACH SVHC,PRTR(1-
				0 0 0			0	000	[Permissible concentration: under 20ppm] Solder [Permissible concentration: under 50ppm] Metal materials and other materials above [Permissible concentration: Total value for lead, cadmium, mercury and chrome (VI) is under 100ppm Used for packaging Those excluded from the RoHs regulations shall be handled in accordance with the RoHS Directive.	
2	Lead and its compounds	7439-92-1/-	0	0 0 0			0	0	[Permissible concentration: under 50ppm] Plastic, ink and other materials (Except packaging.use.metal.and.ceramic). [Permissible concentration: Under 1000ppm, unintentional content] Metal. Ceramic [Permissible concentration: Total value for lead, cadmium, mercury and chrome (VI) is under 100ppm] Used for packaging Those excluded from the RoHs regulations shall be handled in accordance with the RoHS Directive.	Heavy metals, ELV Directive, RoHS Directive, (1-304, 1-305)
3	Mercury and its compounds	7439-97-6/-	0	Δ Ο Ο			0	0	Leaded solder and its raw materials (plating, cream solder, etc.)	Heavy metals, ELV Directive, RoHS Directive, PRTR(1-237)
	Chrome (VI)) compounds (hexavalent chromium compounds)	18540-29-9/-	ļ <u>.</u>	0			0	0		Safety and Health Law, Heavy metals, ELV Directive, RoHS Directive, PRTR(1-88)
5	Polybrominated biphenyls(PBB)	_	0	0				0	[Permissible concentration: under 100ppm, unintentional content]	Organic brominated compounds, RoHS Directive, Chemical Substances Control Law
	Polybrominated diphenyl ethers(PBDE)	_	0	0				0	[Permissible concentration: under 100ppm, unintentional content]	Organic brominated compounds, RoHS Directive, Chemical Substances Control Law
60-1)	DBP(Dibutyl phthalate)									
60-2)	Di(2-ethylhexyl) phthalate									
60-3)	BBP(Butyl benzyl phthalate)									
60-9)	Diisobutyl phthalate				1					
	Polychlorinated biphenyls(PCBs) and specific substitutes	1336-36-3 76253-60-6 81161-70-8		0					[Non-detect(<0.1ppm)] [Intentional use prohibited]	Organic brominated compounds, Chemical Substances Control Law, REACH Annex X VII
8	Polychlorinated naphthalenes (PCN, with 1 chlorine or more)	99688-47-8		0				0	[Permissible concentration: under 5ppm, unintentional content] lubricating oil, paint	Chlorinated organic compounds, Chemical Substances Control Law (with 2 chlorinse or more)
	Chlorinated paraffins (CP) (Short chain chlorinated paraffin with carbon chain length of 10-13 and chlorine content of 50wt% or more) (Medium chain chlorinated paraffins, C14-C17)	61788-76-9/- 85535-84-8 85535-85-9		0				0	[Permissible concentration: under 300ppm, unintentional content]	Organic chloride compounds, REACH SVHC
10	Mirex	2385-85-5		ŏ					For flame retardant, insecticide, antimold agents and all such uses	Organic chloride compounds, Chemical Substances Control Law Brominated flame retardant, The polymer is assumed to be "Other
11	Tetrabromobisphenol A (TBBP-A) Other chlorinated organic compounds (halogen-free-	79-94-7	\vdash	0				0	[Permissible concentration: under 1000ppm, unintentional content] For separate items required to be halogen-free	Organic brominated compounds".
12	related substances) triclosan	3380-34-5		0			00	0	(.900.ppm max Cl.,900.ppm.max Br.,1500.ppm max Cl+Br) Other	Organic chloride compounds Antiseptic
	α-hexachlorocyclohexane, β-hexachlorocyclohexane, γ -hexachlorocyclohexane(Lindane) Chlordecone	58-89-9/- 143-50-0		0				0		BHC, Pesticide, Chemical Substances Control Law Pesticide. Chemical Substances Control Law
13	Inorganic chlorinated substances (halogen-free-related substances)	_		0			0	0	For separate items required to be halogen-free .(.900.ppm.max.Cl900.ppm.max.Br1500.ppm.max.Cl+Br)	Inorganic chloride substances
14	Hexabromocyclododecane(HBCDD) and all major diastereoisomers Other brominated organic compounds (halogen-free-related substances)	25637-99-4, 3194-55-6/-	-	0				0	[Intentional use prohibited] For separate items required to be halogen-free (000 pp. may CL 000 pp. may Br 1500 pp. may CL-Rd)	Brominated flame retardant, Chemical Substances Control Law, REACH SVHC 134237-50-6,134237-51-7,134237-52-8 Organic brominated compounds
16	Inorganic brominated substances (halogen-free-related substances)	_		0			0	0	Other	Organic brominated compounds
	Tributyl tin oxide(TBTO)	56-35-9		0	+			0		Chemical Substances Control Law, REACH SVHC
	Tributyl, triphenyl tin compounds Dibutyltin (DBT) compounds	_		0	\downarrow			0	[Permissible concentration: under 1000ppm (the tin)] [Permissible concentration: under 1000ppm, unintentional content (the tin)]	Chemical Substances Control Law
20	Dioctyltin (DOT) compounds			0				0	Permissible concentration: under Touoppin, unintentional content (the un) All uses listed below are prohibited. *Textile articles intended to come into contact with skin *Wall and floor coverrings *Two-component room temperature vulcanization molding kits (RTV-2 molding kits)	
22	Dichlorobenzene and its salts α-naphthylamine and its salts	_ 134-32-7/-		0	Ⅎ	F)		Safety and Health Law Safety and Health Law
23	o-tolidine and its salts Asbestos	119-93-7/- 1332-21-4/-		<u>ŏ</u>	+		C			Safety and Health Law, PRTR(1-231) Safety and Health Law, PRTR(1-33)
25	Dianisidine and its salts Beryllium and its compounds	119-90-4/- 7440-41-7/-		<u>0</u>)		Safety and Health Law Safety and Health Law Safety and Health Law, PRTR(1-394)
27	Beryllium oxide Benzotrichloride	1304-56-9 98-07-7		<u>0</u>	+		C			PRTR (1-394) Safety and Health Law, PRTR(1-397)
29	Ethyleneimine Vinyl chloride (monomers)	151-56-4 75-01-4		0)		Safety and Health Law, PRTR(1-54) Safety and Health Law, PRTR(1-54) Safety and Health Law, PRTR(1-94)
31	Auramine Chloromethyl methyl ether	2465-27-2 107-30-2		0			C			Safety and Health Law Safety and Health Law
33 34	3,3'-dichloro-4,4'-diamino diphenyl methane Nickel carbonyl	71-43-2 101-14-4 13463-39-3		000				0 0		Safety and Health Law, PRTR(1-400) Safety and Health Law, PRTR(1-160), REACH SVHC Safety and Health Law
36	β-propiolactone p-dimethylaminoazobenzene	57-57-8 60-11-7		0)		Safety and Health Law Safety and Health Law
38 39	Magenta Coal tar	632-99-5 —		00			C)	Part in contact with the human body of a product made for sustained human contact	Safety and Health Law Safety and Health Law
	Azo compounds and aromatic amines*1	- 0002 96 2/	H	0	+				when decomposed [Permissible concentration: total content, under 30ppm]	EU Directive (76/769/EEC)
41	Polyvinyl chloride (PVC) and its blends	9002-86-2/-		0		ļ	0	O	Target: Primary materials and Packaging materials Related to Secondary materials	

	Ozone depleting substances (ODS)			-			<u></u>		Used at time of manufacture	Ozone depleting substances
	Chlorofluorocarbon (CFC) Hydrochlorofluorocarbon (HCFC)		·····	0	17 12	2		00000	I control of the cont	PRTR (1-185)
	1,1,1-trichloromethane (methyl chloroform)	71-55-6	Ž					Ŏ	1	PRTR (1-279)
	Carbon tetrachloride	74-83-9 56-23-5				#	#		Upod at time of word 1 to 100 to 100	PRTR(1-386) PRTR(1-149)
		75-46-7/- 75-73-0/- 2551-62-4	000) 				000	Used at time of manufacture (the refrigerative usage is excluded.)	
44	Organochlorine solvents 1,1,2-trichloroethane	_ 79-00-5		<u> </u>			+-	0	Used at time of manufacture	Chlorine organic solvents PRTR(1-280)
t l	1,2-dichloroethane	107-06-2	ڲؚٳ؊					000000000000000000000000000000000000000	I	PRTR (1-157), REACH SVHC
t l	1,2-dichloroethylene	75-35-4 540-59-0	, C	<u> </u>	1		1	01	1	PRTR (1-158)
t l	Chloromethylene	75-09-2 67-66-3	<u> </u>	<u>) </u>				0	l	PRTR (1-186)
t l	Trichloroethylene	79-01-6	2 ا					Ĭğl	1	PRTR (1-127), REACH SVHC
1	Tetrachloroethylene Pentachloroethylene	127-18-4 76-01-7		ا إ			1	0	ł	PRTR (1-281) PRTR (1-262)
t l	1,1,1,2-Tetrachloroethane	630-20-6 79-34-5	ۼ	3				Ó	l e e e e e e e e e e e e e e e e e e e	
45	Harogenated diphenylmethane	_			1		 	_	1	
1	Monomethyl dichlorodiphenylmethane	76253-60-6 81161-70-8	- c	- 0 0				000	l .	
<u> </u>	Monomethyl dibromodiphenylmethane	99688-47-8			+	#				
	Antimony and its compounds (halogen-free-related substances)	7440-36-0/-	С	ا ال			<u> </u>		For separate items required to be halogen-free(Sb:700ppm or less)	PRTR(1-31)
17 -	Polychlorinated terphenyls (PCT)	61788-33-8/-	С		 	0			Other [Permissible concentration: under 5ppm]	
48 F	Polybrominated terphenyls (PBT)	79596-31-9/-	C	C	\parallel	#	#	0		Chamiral C. L. /
		87-86-5/- —	C	0	+	+	+	0		Chemical Substances Control Law, PRTR (1-404)
	Organic phosphorous compounds *2	_		0	世	#	#	0		
		118-74 4	С	+-	+	0	4	0		Chemical Substances Control Law
	Yellow phosphorous	118-74-1 12185-10-3,			+	+	+	0	1	
	Yellow phosphorous	7723-14-0	C		++	+	+		For separate items required to be halogen-free(1000ppm or less)	+
55 2	2,4,6-tri-tert-butylphenol	7723-14-0 732-26-3	O	O	\Box	\pm	+	0		Chemical Substances Control Law
56 4	4-nitrodiphenyl and its salts	92-93-3/-		O	+		\vdash	0		
58 E	Bis(chloromethyl)ether	152-16-9 542-88-1	С)	#	士	+	0	<u> </u>	<u> </u>
59 A	Alminum phosphate	20859-73-8	С	C	#	#	F	0		PRTR(1-456)
	Phthalates *3	<u>_</u>	0 0		_	0	<u>†</u>	00		
	Radioactive substances Bismuth and its compounds		С	<u> </u>	 			0		+
		7440-69-9/- 7440-02-00/-	₩-	 	 	0		0		PRTR(1-308, 1-309)
	·			#	Щ	000		0	powdery	"
65 N	Magnesium	7782-49-2/- 7439-95-4	<u>ˈ</u> —	+	+	0)	0		PRTR(1-242)
66	Copper and its compounds	7440-50-8/-	\pm	#	\parallel	0)	0		PRTR (1-272)
67 ⁽	Gold and its compounds	7440-57-5/- 7440-05-3/-	<u>'</u>	+	+	0)	0		+
69 8	Silver and its compounds	7440-05-3/- 7440-22-4/-	\pm	#	\forall	<u> </u> 6	1	0		PRTR (1-82)
70	Dioxins)	+	丰	\vdash	0		PRTR (1-243)
	Cyan compounds (Nitriles are excluded.)	-	С	بلر	\sqcup	0		0		Uses for gold plating uses are outside the scope of application (managed substances) Safety and Health Law Radiation emitting regulated substances
73	Chrome compounds (other than hexavalent chromium	50-00-0	<u>'</u>	$\bar{+}$	+		0 0			Safety and Health Law, Radiation-emitting regulated substances
73 _a	and metal chrome)	7440-40-01	' 	+	+	0		0		PRTR (1.405)
75	Cobalt and its compounds (cobalt sulfate)	7440-42-8/- 7440-48-4/-	+	+	#	0)	0		PRTR (1-405) PRTR (1-132)
76	Tellurium and its compounds	13494-80-9/-	<u></u>		丰	0)	0		+
78 \	Vanadium and its compounds	7440-28-0/- 7440-62-2/-	+	+	#	0)	0		PRTR(1-321)
79 E	Barium and its compounds	7440-39-3/-	<u></u>	丰	#	0)	0		
80 p	permanganate)	7439-96-5/-	'	1	\square	0		0		PRTR(1-412)
81 N	Molybdenum and its compounds	7439-98-7/- 7440-66-6/-	<u>'</u>	4	+	0		0		PRTR(1-453) PRTR(1-1)
83 L	Lithium and its compounds	7439-93-2/-	\pm	#	\Box	0)	0		
84 >	Xylene	1330-20-7 108-88-3	+	+	+	0)	0		PRTR(1-80) PRTR(1-300)
86 F	Phenol (monomers)	108-95-2	\pm	#	\forall	0		0		PRTR (1-349)
		7440-38-2/-	C	Ö	—			00	[Permissible concentration: under 50ppm] (All materials except semiconductor,LED and metal	Safety and Health Law, PRTR(1-322)
,))	1		-	0	[Permissible concentration: under 1000ppm] (Metal alloys) [Permissible concentration: under 2ppm] (for preservation of wood products)	<u>"</u>
<u> </u>	PFOS(Perfluorooctane Sulfonate) and its salts	0705			+	O	7	0	for semiconductor, LED use [Permissible concentration] under 10ppm, Intentional use prohibited Parts	EU Directive (76/769/EEC), PRTR(1-396), Chemical Substances Control
88	•	2795-39-3/-	С					0	[Permissible concentration] under 10ppm, Intentional use prohibited Parts under 1µg/m2 Textiles, Coated	Law
90 F	PFOA(Perfluorooctanic acid)and individual salts and	307-35-7		<u> </u>	+-	+	+	+-	[Permissible concentration] under 10ppm, Intentional use prohibited Parts	Chemical Substances Control Law EU Directive (76/769/EEC), REACH SVHC
89 6	esters of PFOA	335-67-1/- 87-68-3	C		\vdash	4	+	0	under 1µg/m2 Textiles, Coated	, , ,
01 2	2-(2H-Benzotriazolo-2-yl)-4,6-bis(1,1-dimethylethyl)-	87-68-3 3846-71-7		0	+	+	+	0 0		Chemical Substances Control Law Chemical Substances Control Law, REACH SVHC
91 F	Phenol Crude rubber))	+	+	+		Target: Primary materials (Intentional use prohibited).	Chemical Substances Control Law, REACH SVHC
93 8	Sodium azide			0	\Box	\pm	#	0		PRTR(1-11)
		7646-79-9		2	+-	0		Ó	Humidity indicator used for desiceant (silicanal etc.)	REACH SVHC
		7791-02 0		#	Ш	0	1	قا	Humidity indicator used for desiccant (silicagel etc.) Humidity indicator (The one that cobalt chloride was soaked into paper etc.)	Prohibited for some customers, by 2011 Apryl 1
و م	Perchlorates	7791-03-9,7601- 89-0,7778-74-	С	، ار					[Permissible concentration: total content, under 0.1ppm Parts]	USA California State Law
	Perchlorates	7,7790-98- 9,10034-81-8					1			
	2-Methoxyethanol	109-86-4 62-75-9		Δ Ο	#	#		0		GADSL classification P, PRTR (1-58), REACH SVHC GADSL classification P
98 F	Pentachlorobenzene	608-93-5	Č)	\pm	#	†	0		GADSL classification P, Chemical Substances Control Law
99	Tetrachlorobenzene	12408-10-5, 84713-12-2	С)			\downarrow	0		GADSL classification P 634-66-2 634-90-2 95-94-3
	PAHs(polycyclic aromatic hydrocarbons) *4	624-49-7		0	+	_	F		Target: Skin-contact use [Permissible concentration: under 0.1ppm, unintentional content]	h.34-bb-2.534-9B-2.95-94-3 German equipment and product safety law 2009/251/EC (Decision of committee)
102 E	Bisphenol A	80-05-7	С)	\forall	#	#	0	[Permissible concentration: under 50ppm]	PRTR(1-37)
103 N 104 E	N,N'-Ditolyl-p-phenylenediamine Ethanolamine	27417-40-9 141-43-5		5	H	0		Ŏ		Chemical Substances Control Law PRTR (1-20)
105 F	Ferric chloride	7705-08-0	1		#	Ō)	\Box		PRTR(1-71)
107 N	N,N-Dimethylformamide	123-91-1 68-12-2	\pm	#	\pm	000)	\forall		PRTR (1-150) PRTR (1-232), REACH SVHC
108 H	Hydroquinone	123-31-9 110-54-3	-)	+	ŏ		 	Used at time of manufacture	PRTR(1-336) PRTR(1-392)
	Water-soluble salts of perovodisulfuric acid	7727-54-0,	4	 	\top	0	,	\top		PRTR(1-395)
111 7	Tantalum	7775-27-1/- 7440-25-7	+	+	\forall	0)	0		Ammonium persulfate. Sodium persulfate. other rare metal
112 (Gallium Ropylphenol ethoxylates	7440-25-7 7440-55-3 25154-52-3/-	_)	干	ŏ		0		PRTR (1-320) REACH Annex X VII
114 E	Benzenamine, N-phenyl-, reaction products with	25154-52-3/- 68921-45-9))	\prod	\top	\top		Intentional use prohibited Target: Primary materials[Permissible concentration: under 0 .1wt%]	GADSL classification D/P
. 14	styrene and 2,4,4-trimethylpentene (BNST)	د	4	+	+	+	+	+	THE COLUMN STATE OF THE CO	Antioxidant
115	Organic silicone compounds	—	<u> </u>	+	+-	+	+	++		1
			<u></u>		Ш	\perp	\perp	\square		J

*1 Azo compounds and aromatic amines : EU Directiv	re (76/769/FFC	:\19tk	ηΑπ	nendi	ment					
No. Azo compounds and aromatic amines No.40	(10/103/220			A y			SM	С		
40-1) 4-Aminoazobenzene	60-09-3		0					0		REACH SVHC
40-2) o-Anisidine 40-3) 2-Naphthylamine	90-04-0 91-59-8		0					0		REACH SVHC, PRTR (1-17)
40-4) 3,3'-Dichlorobenzidine	91-94-1		0					0		PRTR (1-180)
40-5) Biphenyl-4-ylamine	92-67-1		0					0		REACH SVHC
40-6) Benzidine 40-7) o-Toluidine	92-87-5 95-53-4	+ +	0	+				0		REACH SVHC, PRTR (1-299)
40-8) 4-Chloro-o-toluidine	95-69-2		0					0		
40-9) 2,4-Toluenediamine 40-10) o-Aminoazotoluene	95-80-7		0	_				0		REACH SVHC REACH SVHC
40-10) 5-Aminoazotoluene 40-11) 5-Nitro-o-toluidine	97-56-3 99-55-8	+ +	0	+				0		REACH SVHC
40-12) 3,3'-Dichloro-4,4'-diaminodiphenylmethane	101-14-4		0				0	0		REACH SVHC, PRTR (1-160)
40-13) 4,4'-Methylenedianiline 40-14) 4,4'-Diaminodiphenylether	101-77-9		0					0		REACH SVHC, PRTR (1-446) REACH SVHC, PRTR (1-143)
40-15) p-Chloroaniline	101-80-4 106-47-8		0					0		PRTR (1-145)
40-16) 3,3'-Dimethoxybenzidine	119-90-4		0					0		
40-17) 3,3'-Dimethylbenzidine	119-93-7		0					0		PRTR (1-231)
40-18) 2-Methoxy-5-methylaniline 40-19) 2,4,5-Trimethylaniline	120-71-8 137-17-7	+ +	8	+	+			0		REACH SVHC, PRTR (1-451)
40-20) 4,4'-Thiodianiline	139-65-1		0					0		
40-21) 4-Methoxy-m-phenylenediamine 40-22) 4,4'-Methylenedi-o-toluidine	615-05-4		0					0		PRTR (1-142) REACH SVHC
40-23) 2,4-Dimethylaniline	838-88-0 95-68-1		8					0		PRTR (1-214)
40-24) 2,6-Dimethylaniline	87-62-7		Ŏ					Ŏ		PRTR (1-215)

*2 Organic phosphorous compounds	T CACN-	e D	В	Λ : .	, i m	N 4	CM	0		T
No. Organic phosphorous compounds No.51 51-1) Diethyl paranitrophenyl thiophosphate	CAS No. 56-38-2		0	Ау	m	ıVl			[Intentional use prohibited]	Parathion
51-1) Diethyl paramitroprienyr trilopriosphate 51-2) Diethyl (diethyl amide-1-chlorocrotonyl) phosphate	13171-21-6	╁┤	0		士	Ħ	-		[Interitorial use prohibited]	Phosphamidon
51-3) Dimethylethylmercapto ethylthiophosphate	8022-00-2	\Box	0	\bot				0	[Intentional use prohibited]	Methyl demeton
51-4) Diethyl paranitrophenyl thiophosphate 51-5) O-ethyl = O-4-nitrophenyl=phenyl phosphorothioate	298-00-0 2104-64-5	++	0	+	+		\vdash		[Intentional use prohibited] [Intentional use prohibited]	Methyl parathion EPN PRTR (1-48)
51-5) O-erriyi = 0-4-11trophenyi = prienyi priospriorotnioate 51-6) Tetraethyl pyrophosphate	107-49-3	╁┤	ö	_	士	Ħ	┢		[Interitorial use prohibited]	TEPP
51-7) Tris(2,3-dibromopropyl) phosphate	126-72-7	\Box	0				-	0	[Intentional use prohibited]	flame retardant, EU Directive (76/769/EEC)
51-8) Tris (1-aziridinyl) phosphineoxide 51-9) Ammonium polyphosphate	545-55-1 68333-79-9	++	0	+	+	_	-		[Intentional use prohibited] [Permissible concentration: 1000ppm or less]	flame retardant, EU Directive (76/769/EEC) flame retardant
51-9) Ammonium polypnospnate 51-10) Tris(2-butoxyethyl) phosphate	78-51-3	+	8	+	+		-	_	[Permissible concentration: 1000ppm or less]	flame retardant
51-11) Triphenyl phosphate	115-86-6		0					0	[Permissible concentration: 1000ppm or less]	flame retardant, PRTR(1-461)
51-12) Dimethyl methylphosphonate 51-13) Diethyl ethylphosphonate	756-79-6 78-38-6	+	0	_					[Permissible concentration: 1000ppm or less] [Permissible concentration: 1000ppm or less]	flame retardant flame retardant
51-14) Resorcinol bis(diphenyl phosphate)	57583-54-7		8	-			-		[Permissible concentration: 1000ppm or less]	flame retardant As customers request, a Nonuse
51-15) Cyclic phosphonate ester	61840-22-0		0						[Permissible concentration: 1000ppm or less]	flame retardant Agreement and measurement data
51-16) [[Bis (2hydroxyethyl) amino] methyl]- diethyl ester 51-17) Diphenyl cresyl phosphate	2781-11-5 26444-49-5	+	0	_				_	[Permissible concentration: 1000ppm or less] [Permissible concentration: 1000ppm or less]	flame retardant may be required for specific substances for which use is prohibited.
51-18) Octyldiphenyl phosphate	115-88-8		ŏ	+				_	[Permissible concentration: 1000ppm or less]	flame retardant
51-19) Tris(2-ethylhexyl)phosphate	78-42-2		0					0	[Permissible concentration: 1000ppm or less]	flame retardant, PRTR(1-458)
51-20) Trioctyl phosphate 51-21) Triethyl phosphate	1806-54-8 78-40-0	+	0	_			-		[Permissible concentration: 1000ppm or less] [Permissible concentration: 1000ppm or less]	flame retardant flame retardant, PRTR(1-459)
51-21) Trietry prospirate 51-22) Tris(2-chloroethyl) Phosphate (TCEP)	115-96-8		ö	-					[Permissible concentration: 1000ppm or less]	flame letardant, FRTR(1-459) flame letardant, REACH SVHC,(US (state of Vermont) legislation)
51-23) Tris(2-chloro-1-methylethyl) phosphate [TCPP]	13674-84-5		0						[Permissible concentration: 1000ppm or less, unintentional content]	(US (state of Vermont) legislation)
51-24) Tris(1,3-dichloro-2-propyl) phosphate [TDCPP] 51-25) Other organic phosphorus compound	13674-87-8		0	_		0		0	[Permissible concentration: 1000ppm or less, unintentional content]	(US (state of Vermont) legislation)
51-25) Other organic phosphorus compound	1-					O	<u> </u>	O		
*3 Phtalates										
No. Phthalates No.60	CAS No.	SP	Р	A y	/ m	М	SM	С		
60-1) Dibutyl phthalate	84-74-2	0	0			0		0		REACH SVHC、PRTR(1-354) Denmark Phthalate regulation
	01712		Ŭ			0		0	For primary product materials and packaging, substances of which use is prohibited (total for the 3 substances: 0.1wt% or less).	REACH SVHC, PRTR(1-355)
60-2) Di(2-ethylhexyl) phthalate	117-81-7	0	0			0			For subsidiary materials, management substances.	Denmark Phthalate regulation
60-3) Butyl benzyl phthalate	85-68-7	0	0			0		0	-	REACH SVHC、PRTR (1-356) Denmark Phthalate regulation
60-4)	28553-12-0,		0	+	+	0				2 sandra manace regulation
60-4) Diisononyl phthalate	68515-48-0		J	\perp	-	0		0	For primary product materials and packaging, substances of which use is prohibited	
60-5) Diisodecyl phthalate	26761-40-0, 68515-49-1	0	0			0		0	(total for the 3 substances: 0.1wt% or less). For subsidiary materials, managed substances.	
60-6) Di-n-octyl phthalate	117-84-0	0	0	+	+	0	H	0	. 5. 55550aa ji matorialo, managoa sabstanoss.	<u> </u>
									For primary product materials and packaging, substances of which use is prohibited	
60-9)	84-69-5	0	0			0		0	1),2),3) and 9), total for the 4 substances:0.1% or less(by July 2014) For subsidiary materials, managed substances.	REACH SVHC, Denmark Phthalate regulation
Diisobutyl phthalate 60-7) Dibutyl phthalate (2-methoxyethyl)	117-82-8	$\pm \dagger$	=†	\pm	\pm	0	H	0	. o. oaootaary matemate, managed adoptanees.	REACH SVHC
60-8) Di-n-hexyl phthalate	84-75-3	\Box		\perp		0	_	Ō		REACH SVHC
60-10) Diisoheptyl phthalate 60-11) 1,2-Benzenedicarboxylic acid,	71888-89-6	++		+	-	0	H	0		REACH SVHC
60-11) di-C7-11-branched and linear alkyl esters	68515-42-4	<u></u> ∐		[0		0		REACH SVHC
60-12) Diethyl phthalate	84-66-2	П	0	1		0			For primary product materials and packaging, substances of which use is prohibited	
60-13) Dimethyl phthalate 60-14) Other phthalate	131-11-3	++	0	+	+	00		00	(0.1wt% or less). For subsidiary materials, managed substances.	
- W 13/[1	<u> </u>				-1	<u> </u>				ı
*4PAHs(polycyclic aromatic hydrocarbons)										
No. PAHs No.100	CAS No.	SP		A y	/ m	М	SM		IDenticible association Tel. (101)	DDTD (4 000)
100-1) Naphthalene 100-2) Acenaphthene	91-20-3 83-32-9	++	0	+	+		\vdash	_	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	PRTR(1-302) PRTR(1-15)
100-2) Acenaphthene	208-96-8	+	8	+	+		H	0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
, , , , , , , , , , , , , , , , , , ,	86-73-7		0					0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-4) Fluorene	85-01-8	iguplus	0	\perp	\bot		Щ	00	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-5) Phenanthrene	100 10 7	1	0	+	+		\vdash	0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	REACH SVHC PRTR(1-32)
100-5) Phenanthrene 100-6) Anthracene	120-12-7 206-44-0	+				-	\vdash	_	ti orningation confectitation. Total of to kinds is under Toppinj (Skin-contact use)	T.
100-5) Phenanthrene 100-6) Anthracene 100-7) Fluoranthene	120-12-7 206-44-0 129-00-0		ŏ				l	0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-5) Phenanthrene 100-6) Anthracene 100-7) Fluoranthene 100-8) Pyrene 100-9) Crysene	206-44-0 129-00-0 218-01-9		0					Ö	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-5) Phenanthrene 100-6) Anthracene 100-7) Fluoranthene 100-8) Pyrene 100-9) Crysene 100-10) Benz[a]anthracene	206-44-0 129-00-0 218-01-9 56-55-3		000					0	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-5) Phenanthrene 100-6) Anthracene 100-7) Fluoranthene 100-8) Pyrene 100-9) Crysene 100-10) Benz[a]anthracene 100-11) Benzo[b]fluoranthene	206-44-0 129-00-0 218-01-9 56-55-3 205-99-2		0000					000	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-5) Phenanthrene 100-6) Anthracene 100-7) Fluoranthene 100-8) Pyrene 100-9) Crysene 100-10) Benz[a]anthracene 100-11) Benzo[b]fluoranthene 100-12) Benzo[k]fluoranthene	206-44-0 129-00-0 218-01-9 56-55-3 205-99-2 207-08-9		00000					000	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-5) Phenanthrene 100-6) Anthracene 100-7) Fluoranthene 100-8) Pyrene 100-9) Crysene 100-10) Benz[a]anthracene 100-11) Benzo[b]fluoranthene	206-44-0 129-00-0 218-01-9 56-55-3 205-99-2		0000000000					00000	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-5) Phenanthrene 100-6) Anthracene 100-7) Fluoranthene 100-8) Pyrene 100-9) Crysene 100-10) Benz[a] anthracene 100-11) Benzo[b]fluoranthene 100-12) Benzo[k]fluoranthene 100-13) Inden-[1,2,3-cd]-pyrene 100-14) Dibenzo(a,h) anthracene 100-15) Benzo(g,h,l) perylene	206-44-0 129-00-0 218-01-9 56-55-3 205-99-2 207-08-9 193-39-5 53-70-3 191-24-2		000000000000000000000000000000000000000					000000	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-5) Phenanthrene 100-6) Anthracene 100-7) Fluoranthene 100-8) Pyrene 100-9) Crysene 100-10) Benz[a]anthracene 100-11) Benzo[b]fluoranthene 100-12) Benzo[k]fluoranthene 100-13) Indeno-[1,2,3-cd]-pyrene 100-14) Dibenzo(a,h) anthracene 100-15) Benzo (g,h,l) perylene 100-16) Benzo[a]pyrene	206-44-0 129-00-0 218-01-9 56-55-3 205-99-2 207-08-9 193-39-5 53-70-3 191-24-2 50-32-8		000000000000000000000000000000000000000					0000000	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	REACH SVHC
100-5) Phenanthrene 100-6) Anthracene 100-7) Fluoranthene 100-8) Pyrene 100-9) Crysene 100-10) Benz[a] anthracene 100-11) Benzo[b]fluoranthene 100-12) Benzo[k]fluoranthene 100-13) Indeno-[1,2,3-cd]-pyrene 100-14) Dibenzo(a,h) anthracene 100-15) Benzo(g,h,l) perylene	206-44-0 129-00-0 218-01-9 56-55-3 205-99-2 207-08-9 193-39-5 53-70-3 191-24-2		000000000000000000000000000000000000000					000000000	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) * [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use) [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	REACH SVHC

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