Date enacted: Aug. 20, 2007 Date revised: Jan. 31, 2018

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 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.

			cate O : \triangle :	gory Rele Rele	vant vant vant a	:	S			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 Managed substances: Substances that need management of the	
No.	Name of substance	Chemical substance no.	Prohibited substances	Abolished substances	Deadlii Year M		Specific n	- 1	name s lambers of	Concentration and application limits	*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. *3: "O"=Substance name, usage, concentration should be reported
1	Cadmium and its compounds	-	000			C	5	C) 	Permissible concentration: under 5ppm] Plastic, ink, rubber and paint [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.	Heavy metals, ELV Directive ,RoHS2 , REACH SVHC,PRTR(1-75)
2	Lead and its compounds	-	0 0			C	Ö	c) 	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. Leaded solder and its raw materials (plating, cream solder, etc.)	Heavy metals, ELV Directive, RoHS2, (1-304, 1-305)
3	Mercury and its compounds	_	0				<u> </u>	C		Permissible concentration: Under 5ppm, unintentional content] For uses other than those excluded from the RoHS regulations. 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, RoHS2, PRTR(1-237)
4	Chrome (VI)) compounds (hexavalent chromium compounds)	_	0			C	5	C	o l	Permissible concentration: under 500ppm] Except packaging use [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.	Safety and Health Law, Heavy metals, ELV Directive, RoHS2, PRTR(1-88)
5	Polybrominated biphenyls(PBB)	_	0					C)	[Permissible concentration: under 100ppm, unintentional content]	Organic brominated compounds, RoHS2, Chemical Substances Control Law
6	Polybrominated diphenyl ethers(PBDE)	_	0			\perp				[Permissible concentration: under 100ppm, unintentional content]	Organic brominated compounds, RoHS2, Chemical Substances Control Law
60-1)	DBP(Dibutyl phthalate)	84-74-2	0			C	5	C	2		REACH SVHC、Denmark Phthalate regulation,RoHS2, PRTR (1-354)
60-2)	Di(2-ethylhexyl) phthalate	117-81-7	0			C	 5		ו ב	Permissible concentration:Banned materials for Primary materials and Packaging materials use under 1000ppm [Total 60-1)+2)+3)+9] (From July 2014)	REACH SVHC, Denmark Phthalate regulation,RoHS2, PRTR (1-355)
60-3)	BBP(Butyl benzyl phthalate)	85-68-7	0)	C		For Secondary materials use , please report substance name, usage and concentration.	REACH SVHC Denmark Phthalate regulation,RoHS2, PRTR (1-356)
60-9)	Diisobutyl phthalate	84-69-5	0					C	2		REACH SVHC、Denmark Phthalate regulation,RoHS2
		1336-36-3	0				+) I	[Non-detect(<0.1ppm)]	Organic chloride compounds, Chemical Substances Control Law,
7	Polychlorinated biphenyls(PCBs) and specific substitutes	76253-60-6 81161-70-8 99688-47-8	0								PRTR(1-406) REACH Annex X VII
8	Polychlorinated naphthalenes (PCN, with 1 chlorine or more)	_	0					C) I	Permissible concentration: under 5ppm, unintentional content] lubricating oil, paint	Chlorinated organic compounds, Chemical Substances Control Law (with 2 chlorinse or more)
9	Chlorinated paraffins (CP) (Short chain chlorinated paraffin with carbon chain length of 10-13 and chlorine content of 50wt% or more)	-	0						[[Permissible concentration: under 300ppm, unintentional content]	Organic chloride compounds, REACH SVHC
10	(Medium chain chlorinated paraffins, C14-C17) Mirex	85535-85-9 2385-85-5	00					_	0 1	For flame retardant, insecticide, antimold agents and all such uses	Organic chloride compounds, Chemical Substances Control Law
11	Tetrabromobisphenol A (TBBP-A)	79-94-7	0					C	O	Permissible concentration: under 1000ppm, unintentional content]	Brominated flame retardant, The polymer is assumed to be "Other Organic brominated compounds".
12	Other chlorinated organic compounds (halogen-free- related substances) (Including chlorinated flame retardant)	-	0			C))))	For separate items required to be halogen-free (900ppm max.Cl, 900ppm max.Br. 1500ppm max.Cl+Br) Other	Organic chloride compounds
	triclosan α-hexachlorocyclohexane, β-hexachlorocyclohexane, γ -hexachlorocyclohexane(Lindane) Chlordecone	3380-34-5 — 143-50-0	0			C	2	C	0		Antiseptic BHC, Pesticide, Chemical Substances Control Law Pesticide, Chemical Substances Control Law
13	Inorganic chlorinated substances (halogen-free-related substances)	-	0					C	ם '	For separate items required to be halogen-free (900ppm max Cl, 900ppm max Br, 1500ppm max Cl+Br)	Inorganic chloride substances
14		25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	0			C)))	Other [Intentional use prohibited]	Brominated flame retardant, Chemical Substances Control Law, REACH SVHC 134237-50-6,134237-51-7,134237-52-8
15	related substances) (including brominated flame retardant)	_	0			C))))	For separate items required to be halogen-free (900ppm max Cl, 900ppm max Br, 1500ppm max Cl+Br) Other	Organic brominated compounds
16	Inorganic brominated substances (halogen-free-related substances)	_	0	ļ						For separate items required to be halogen-free (.900ppm.max.Cl900ppm.max.Br1500ppm.max.Cl+Br)	Organic brominated compounds
	Tributyl tin oxide(TBTO)	56-35-9	0			Ť	1	C)		Chemical Substances Control Law, REACH SVHC
	Tributyl, triphenyl tin compounds Dibutyltin (DBT) compounds	_	0			\perp	\bot)))	Permissible concentration: under 1000ppm (the tin)]	Chemical Substances Control Law
	Dioctyltin (DOT) compounds	_	0						[Permissible concentration: under 1000ppm, unintentional content (the tin)] 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)	
	Dichlorobenzene and its salts α-naphthylamine and its salts		00		\dashv	Ŧ	C		7		Safety and Health Law Safety and Health Law
23	o-tolidine and its salts Asbestos	_	00			#	С				Safety and Health Law, PRTR(1-231) Safety and Health Law, PRTR(1-33)
25	Dianisidine and its salts	_	000				С				Safety and Health Law
27	Beryllium and its compounds Beryllium oxide	1304-56-9	Ō			\downarrow	000) (_		Safety and Health Law, PRTR(1-394) PRTR(1-394)
29	Benzotrichloride Ethyleneimine	98-07-7 151-56-4	0			\pm	C))		Safety and Health Law, PRTR(1-397) Safety and Health Law, PRTR(1-54)
31	Vinyl chloride (monomers) Auramine	75-01-4 2465-27-2	00			╁	0)	J		Safety and Health Law, PRTR(1-94) Safety and Health Law
32	Chloromethyl methyl ether Benzene	107-30-2 71-43-2	0			+	C) (Safety and Health Law Safety and Health Law, PRTR(1-400)
34	3,3'-dichloro-4,4'-diamino diphenyl methane	101-14-4	0				С)			Safety and Health Law, PRTR(1-160), REACH SVHC
36	Nickel carbonyl β–propiolactone	13463-39-3 57-57-8	0			\pm	C)	Ⅎ		Safety and Health Law Safety and Health Law
	p-dimethylaminoazobenzene Magenta	60-11-7 632-99-5	0			+	00)	f		Safety and Health Law Safety and Health Law
39	Coal tar Azo compounds and aromatic amines*1	_	0				Č)	O t	Part in contact with the human body of a product made for sustained human contact that has azo pigments that can generate the specific amines on the separate table	Safety and Health Law EU Directive (76/769/EEC)
41	Polyvinyl chloride (PVC) and its blends	_	0			\dagger	\dagger	C		when decomposed [Permissible concentration: total content, under 30ppm] Target: Primary materials and Packaging materials	
			ļ	······		C)	<u></u>		Related to Secondary materials	

Total compounds (other than hexavalent chromium												
Meditarians 1995	42				ļ				-		sed at time of manufacture	Ozone depleting substances
Add Control				0	······			+	0	-		PRTR (1-185)
Company			71-55-6	Ö				Ţ	Ö	.]		PRTR (1-279)
Company Comp				0	·····			+	0	-		PRTR(1-386) PRTR(1-149)
1		Fluorinated greenhouse gases(HFC,PFC,SF6)	_	0					Ŏ			
6-5 No. of the control of the cont	44				ļ			.+	_		sed at time of manufacture	
6-5 No. of the control of the cont		1,2-dichloroethane	107-06-2	ŏ				1	ŏ	1		PRTR (1-157), REACH SVHC
40 Processor description 1975				0					0			PRTR(1-158)
40 Processor description 1975				0				+	0	••		PRTR (1-186)
40 Processor description 1975		Chloroform	67-66-3	Ŏ				1	Ŏ	1		
40 Processor description 1975				Ö	ļ				0			
Column				10	ł	·····-		.+	10	-		
Column				ŏ				<u> </u>	ŏ	1		11(11(1-202)
60 Section of the community of the property of the community of the co			79-34-5					Ţ	0	1		
60 Section of the community of the property of the community of the co	45				ļ	 			_	4		
Communication Communicatii Communication Communication Communication Communication				0	······			+	0	•		
Section Company Comp			99688-47-8	0				1	0	1		
Page	46		_	0					0	F	or separate items required to be halogen-free(Sb:700ppm or less)	PRTR(1-31)
## Processor and Security (1975) 1		substances)			h		C	.+		0	ther	
4 de southerment 0	47	Polychlorinated terphenyls (PCT)	_	0					0	_		
Section Company Comp									_		Permissible concentration: under 1000ppm]	
10 Control Statement				_	_	_	_	<u> </u>				Chemical Substances Control Law, PRTR (1-404)
State Stat							-	-	_	_		
Style Styl	51	Organic phosphorous compounds 2	_	0		+		,	_	_		
15 15 15 15 15 15 15 15	52	Hexachlorobenzene	118-74-1	0			Ť					Chemical Substances Control Law
Good Reserved Processing							1			t		
State Control Control Annual Control Contr						$\sqcup \bot$	\perp	1		┸		
Section Compared						\vdash	+	1		_	or separate items required to be halogen-free(1000ppm or less)	Chamical Cubatanaga Castast Law
Second Committed Committ						+	+	1	_	_		Chemical Substances Control Law
September Sept		1 7				\vdash	+	+	_	_		
2006 Primary 2007									_	_		
Comment of the comment Comment of the comment Comment of the	59	Alminum phosphate		0					Ö	İ		PRTR (1-456)
C Search and the composeds	60	Phthalates *3	_	0	Щ	$\Box \Gamma$	Ţ					
Column and in composeds		Padioactive substances		_	\vdash	\vdash	C	1				
Color March Composition Color				0	\vdash	\vdash	-	+				
Comment of the composition Application			_	\vdash	\vdash	\vdash						PRTR(1-308、1-309)
Column and its compounds			<u>L</u> _	<u> </u>	<u> </u>			0			owdery	
George and the compounds							О)	0	Ė		PRTR (1-242)
Column Company Column		-										
Column Company Column				1	\vdash	\vdash	_	_				PRTR(1-272)
Section Composition Comp		·		-		-						
77 Open compared (Nittles are exclusion)						+	_	_				PRTR (1-82)
Section of the composition of the control of the		·		0			Ť		_	-		
The presentative in formation Section Se	71	Cvan compounds (Nitriles are excluded.)	_	0					C	T		Uses for gold plating uses are outside the scope of application (managed
Trailing		<u> </u>	50-00-0	Ŭ		-						
Application and its compounds (according to compounds)	70	Chrome compounds (other than hexavalent chromium	30-00-0			+				\top		Salety and riediti Law, Radiation-emitting regulated substances
Trigonome Trig		and metal chrome)	_									
Test Februaries and its compounds						_						
Trailing and its compounds		· · · · · · · · · · · · · · · · · · ·				+						PRTR(1-132)
78 Name and as compounds												
Managements and its compounds (potension)			_									PRTR(1-321)
8 PFOSI Perfusion south to compounds and the salts of the proof of the properties of the proof o	79	Barium and its compounds	_				О)	0			
88 Library and its compounds compounds (arrange) 1	80	Manganese and its compounds (potassium	_				С	,	0	П		PRTR (1-412)
82 Zize and its compounds (water subble)		permanganate)		-		+				_		
83 Litture and fix correpounds 30 0 0 0						+	_	_				
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8 PFOS/Perfluorocctane Sulforation and its salts PFOS/Perfluorocctane Sulforation and its salts PFOS/Perfluorocctane sulforation (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (business) PFOS/Perfluorocctane (busi							_	_				
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B PFOSPerfluorocotane Sulfonate) and its saits	87	Arsenic and its compounds (arsenic)	_									Safety and Health Law, PRTR(1-322)
PFOSIPerfluorocotane Sufforate) and its salts O O Forestine description Perfosition Perf								+				
## PFOSF (Perfluoroctariae Sulforate) and its salts							C	<u> </u>		fo	r semiconductor, LED use	
PFOSE (Perfusionaciane sulfund fluoride)	88	PFOS(Perfluorooctane Sulfonate) and its salts	_	C			Τ	Γ		I L	'ermissible concentration] under 10ppm, Intentional use prohibited Parts	EU Directive (76/769/EEC), PRTR(1-396), Chemical Substances Control
PFCA/EPrilucrocotanic acid/jand individual saits and selection of PFCA Parts Facilities, Coaled Parts Facilities, Coaled Chamical Substances Control Law Chamical	50	PEOSE (Perfluorooctane sulfonul fluorida)				 		· ·····	ļ	-	under 1µg/m2 Textiles, Coated	
Second content of PCA		PFOA(Perfluorooctanic acid)and individual salts and	301-33-1			+	+	1	_	ſF	Permissible concentration] under 10ppm, Intentional use prohibited Parts	
91	89	esters of PFOA	_			oxdot	\perp		O	Ĺ		
Phenol Phenol SA46-71-7 Q Q Target: Primary materials (intentional use prohibited) Primary materials (intentional use pro	90	,	87-68-3	0	Щ	Щ	1	\perp		+		Chemical Substances Control Law
9.2 Crude rubber	91		3846-71-7	0				1	0			Chemical Substances Control Law, REACH SVHC
93 Sodium azide 26628-22-8 0 0 0				0					0	Ta	arget: Primary materials (Intentional use prohibited)	
Principle Prin	93	Sodium azide				\Box	I		0	Т		
Section Continue	94	Cobalt(II) chloride	7646-79-9			Т	С	4	0			REACH SVHC
95 Perchlorates]	0					0			
Permissible concentration: under 100ppm] (article) Permissible concentration: under 100ppm] (article) Permissible concentration: under 0.1ppm Parts] USA California State Law Permissible concentration: total content, under 0.1ppm Parts] USA California State Law USA California State Law Permissible concentration: total content, under 0.1ppm Parts] USA California State Law USA California California USA California State Law USA California State Law				ļ	 	·····		+	 			
Perchiorates							С		0			Prohibited for some customers, by 2011 Apryl 1
Section Sect						\vdash	\top			1	e e e e e e e e e e e e e e e e e e e	
100 PAHs (polycyclic aromatic hydrocarbons) *4 0 0 0 0 0 0 0 0 0	95	Perchlorates		0				1	0	[F	Permissible concentration: total content, under 0.1ppm Parts]	USA California State Law
96 2-Methoxyethanol			9,10034-81-8		Ĺ∣				L		<u> </u>	
98 Pentachlorobenzene Tetrachlorobenzene Tetrachlor			109-86-4				Ţ					
Tetrachlorobenzene						\vdash	+	1				
Section Sect	98				\vdash	\vdash	+	+		t		S. 2.3.2 Statement of F., Sherillan Substances Control Law
100 PAHs (polycyclic aromatic hydrocarbons) *4	99		84713-12-2,	0				1	C			GADSL classification P
100 PAHs (polvcyclic aromatic hydrocarbons) *4	55							1				
101 Dimethylfumarate 624-49-7 O O Permissible concentration: under 0.1ppm, unintentional content] 2009/251/EC (Decision of committee)			_				ᆂ	İ				
103 N,N'-Ditolyl-p-phenylenediamine	101	Dimethylfumarate		0			Ţ		Ō	[F	Permissible concentration: under 0.1ppm, unintentional content]	2009/251/EC (Decision of committee)
104 Ethanolamine						\vdash	+	+			ermissible concentration: under 50ppm]	
105 Ferric chloride 7705-08-0 O O PRTR(1-71) 106 1,4-Dioxane 123-91-1 O PRTR(1-150) 107 N,N-Dimethylformamide 68-12-2 O PRTR(1-322), REACH SVHC 108 Hydroquinone 123-31-9 O Used at time of manufacture PRTR(1-332) 109 n-Hexane 110-54-3 O Used at time of manufacture PRTR(1-392) 110 Water-soluble salts of peroxodisulfuric acid O PRTR(1-395) 111 Tantalum 7440-25-7 O O PRTR(1-395) 112 Gallium 7440-55-3 O O Intentional use prohibited PRTR(1-320), REACH Annex X VII 113 Nonylphenol, Nonylphenol ethoxylates O Target: Primary materials [Permissible concentration: under 0 .1wt%] GADSL classification D/P 115 Organic silicon compounds O Target: Primary materials for HDD Production (Banned) (Silvanes etc.)					\vdash		С		J	t		
107 N,N-Dimethylformamide	1041	Ferric chloride	7705-08-0			\Box	Č			ļ		PRTR(1-71)
108 Hydroquinone 123-31-9	105	1,4-Dioxane		F	Ы	ЩĒ			Ĺ	F		
1109 n-Hexane 110-54-3 O Used at time of manufacture PRTR(1-392) 110 Water-soluble salts of peroxodisulfuric acid — O PRTR(1-395) 111 Tantalum 7440-25-7 O O Target: Primary materials [Permissible concentration: under 0 .1wt%] 112 Gallium 7440-55-3 O O Target: Primary materials for HDD Production (Banned) 113 Nonylphenol, Nonylphenol ethoxylates — O Target: Primary materials for HDD Production (Banned) 115 Organic silicon compounds 116 Organic silicon compounds 117 Organic silicon compounds 118 Organic silicon compounds 119 Organic silicon compounds 110 Used at time of manufacture PRTR(1-392) O Target: Primary materials [Permissible concentration: under 0 .1wt%] O Target: Primary materials for HDD Production (Banned) O Silvanes etc.)	105 106	N. N. Dimothydform		1	\vdash	\vdash			-	+		
The styrene and 2,4,4-trimethylpentene (BNST) 110 Water-soluble salts of peroxodisulfuric acid	105 106 107		123-31-9	0			Ĭ	I	0	U	sed at time of manufacture	
111 Tantalum 7440-25-7 O O rare metal rare m	105 106 107 108	Hydroquinone			-	-	1	Т		Ť		
112 Gallium 7440-55-3 O O O Garage Silicon compounds 7440-55-3 O O Target: Primary materials for HDD Production (Banned) (Silvanes etc.)	105 106 107 108 109	Hydroquinone n-Hexane		Ť				1				
113 Nonylphenol, Nonylphenol ethoxylates - O O [Intentional use prohibited] PRTR(1-320), REACH Annex XVII Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST) 115 Organic silicon compounds - O Target: Primary materials [Permissible concentration: under 0 .1wt%] GADSL classification D/P Antioxidant - O Target: Primary materials for HDD Production (Banned) (Silvanes etc.)	105 106 107 108 109	Hydroquinone n-Hexane Water-soluble salts of peroxodisulfuric acid	110-54-3 —	Ĺ					_	+		Ammonium persulfate. Sodium persulfate, other
styrene and 2,4,4-trimethylpentene (BNST) 115 Organic silicon compounds - O Target: Primary materials [Permissible concentration: under 0.1Wt%] Antioxidant (Silovanes etc.)	105 106 107 108 109 110	Hydroquinone n-Hexane Water-soluble salts of peroxodisulfuric acid Tantalum	110-54-3 — 7440-25-7				С					Ammonium persulfate. Sodium persulfate. other rare metal
styrene and 2,4,4-trimethylpentene (BNST) Antioxidant O Target: Primary materials for HDD Production (Banned) (Siloyanes etc.)	105 106 107 108 109 110 111 112 113	Hydroquinone n-Hexane Water-soluble salts of peroxodisulfuric acid Tantalum Gallium Nonylphenol, Nonylphenol ethoxylates	110-54-3 — 7440-25-7				С		Ō	Ī	ntentional use prohibited]	Ammonium persulfate. Sodium persulfate, other rare metal rare metal PRTR (1-320) 、REACH Annex X VII
	105 106 107 108 109 110 111 112 113	Hydroquinone n-Hexane Water-soluble salts of peroxodisulfuric acid Tantalum Gallium Nonylphenol, Nonylphenol ethoxylates Benzenamine, N-phenyl-, reaction products with	7440-25-7 7440-55-3	0			С		0	[lr		Ammonium persulfate. Sodium persulfate, other rare metal rare metal PRTR (1-320) REACH Annex X VII GADSL classification D/P
C Transaction and appropriate	105 106 107 108 109 110 111 112 113	Hydroquinone n-Hexane Water-soluble salts of peroxodisulfuric acid Tantalum Gallium Nonylphenol, Nonylphenol ethoxylates Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	7440-25-7 7440-55-3 — 68921-45-9	0			С		0	[lr	arget: Primary materials[Permissible concentration: under 0 .1wt%]	Ammonium persulfate. Sodium persulfate, other rare metal rare metal PRTR (1-320) _ REACH Annex X VII GADSL classification D/P Antioxidant
116 Talc O O O Talget: Except for the above description	105 106 107 108 109 110 111 112 113	Hydroquinone n-Hexane Water-soluble salts of peroxodisulfuric acid Tantalum Gallium Nonylphenol, Nonylphenol ethoxylates Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	7440-25-7 7440-55-3 — 68921-45-9	0			C		0000	[lr Ta	arget: Primary materials[Permissible concentration: under 0 .1wt%] arget: Primary materials for HDD Production (Banned)	Ammonium persulfate. Sodium persulfate, other rare metal rare metal PRTR (1-320) _ REACH Annex X VII GADSL classification D/P Antioxidant

*1	Azo compounde o	and aromatic amines	ELI Diroctivo	/76/760/EEC\1	10th Amondmon
1	Azo compounds a	and aromatic amines	EU Directive	(/b//b9/EEC)I	ı 9ın Amenamen

No.	Azo compounds and aromatic amines No.40		Р	Α	y m	M	SM	С	
40-1)	4-Aminoazobenzene	60-09-3	0					0	REACH SVHC
40-2)	o-Anisidine	90-04-0	0					0	REACH SVHC, PRTR (1-17)
40-3)	2-Naphthylamine	91-59-8	0					0	
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	92-87-5	0					0	
40-7)	o-Toluidine	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	95-80-7	0					0	REACH SVHC
40-10)	o-Aminoazotoluene	97-56-3	0					0	REACH SVHC
40-11)	5-Nitro-o-toluidine	99-55-8	0					0	
40-12)	3,3'-Dichloro-4,4'-diaminodiphenylmethane	101-14-4	0				0	0	REACH SVHC, PRTR (1-160)
40-13)	4,4'-Methylenedianiline	101-77-9	0					0	REACH SVHC、PRTR(1-446)
40-14)	4,4'-Diaminodiphenylether	101-80-4	0					0	REACH SVHC, PRTR (1-143)
40-15)	ρ-Chloroaniline	106-47-8	0					0	PRTR (1-89)
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	120-71-8	0					0	REACH SVHC, PRTR (1-451)
40-19)	2,4,5-Trimethylaniline	137-17-7	0					0	
40-20)	4,4'-Thiodianiline	139-65-1	0					0	
40-21)	4-Methoxy-m-phenylenediamine	615-05-4	0					0	PRTR(1-142)
40-22)	4,4'-Methylenedi-o-toluidine	838-88-0	0					0	REACH SVHC
40-23)	2,4-Dimethylaniline	95-68-1	0					0	PRTR(1-214)
40-24)	2,6-Dimethylaniline	87-62-7	0					0	PRTR (1-215)

*2 Organic phosphorous compounds

2 Olyai	2 Organic priospriorous compounds												
No.	Organic phosphorous compounds No.51	CAS No.	Р	Α	y m	M	SM	О					
51-1)	Diethyl paranitrophenyl thiophosphate	56-38-2	0					0	[Intentional use prohibited]	Parathion			
51-2)	Diethyl (diethyl amide-1-chlorocrotonyl) phosphate	13171-21-6	0					0	[Intentional use prohibited]	Phosphamidon			
51-3)	Dimethylethylmercapto ethylthiophosphate	8022-00-2	0					0	[Intentional use prohibited]	Methyl demeton			
51-4)	Diethyl paranitrophenyl thiophosphate	298-00-0	0					0	[Intentional use prohibited]	Methyl parathion			
51-5)	O-ethyl =O-4-nitrophenyl=phenyl phosphorothioate	2104-64-5	0					0	[Intentional use prohibited]	EPN PRTR(1-48)			
51-6)	Tetraethyl pyrophosphate	107-49-3	0					0	[Intentional use prohibited]	TEPP			
51-7)	Tris(2,3-dibromopropyl) phosphate	126-72-7	0					0	[Intentional use prohibited]	flame retardant, EU Directive (76/769/EEC)			
51-8)	Tris (1-aziridinyl) phosphineoxide	545-55-1	0					0	[Intentional use prohibited]	flame retardant, EU Directive (76/769/EEC)			
51-9)	Ammonium polyphosphate	68333-79-9	0					0	[Permissible concentration: 1000ppm or less]	flame retardant			
51-10)	Tris(2-butoxyethyl) phosphate	78-51-3	0					0	[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	756-79-6	0					0	[Permissible concentration: 1000ppm or less]	flame retardant			
51-13)	Diethyl ethylphosphonate	78-38-6	0					0	[Permissible concentration: 1000ppm or less]	flame retardant			
51-14)	Resorcinol bis(diphenyl phosphate)	57583-54-7	0					0	[Permissible concentration: 1000ppm or less]	flame retardant			
51-15)	Cyclic phosphonate ester	61840-22-0	0					0	[Permissible concentration: 1000ppm or less]	flame retardant			
51-16)	[[Bis (2hydroxyethyl) amino] methyl]- diethyl ester	2781-11-5	0					0	[Permissible concentration: 1000ppm or less]	flame retardant			
51-17)	Diphenyl cresyl phosphate	26444-49-5	0					0	[Permissible concentration: 1000ppm or less]	flame retardant			
51-18)	Octyldiphenyl phosphate	115-88-8	0					0	[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	1806-54-8	0					0	[Permissible concentration: 1000ppm or less]	flame retardant			
51-21)	Triethyl phosphate	78-40-0	0					0	[Permissible concentration: 1000ppm or less]	flame retardant, PRTR(1-459)			
51-22)	Tris(2-chloroethyl) Phosphate (TCEP)	115-96-8	0					0	[Permissible concentration: 1000ppm or less, unintentional content]	flame retardant, REACH SVHC,(US (state of Vermont) legislation)			
51-23)	Tris(2-chloro-1-methylethyl) phosphate [TCPP]	13674-84-5	0					0	[Permissible concentration: 999ppm or less, unintentional content]	(US (state of Vermont) legislation)			
51-24)	Tris(1,3-dichloro-2-propyl) phosphate [TDCPP]	13674-87-8	0					0	[Permissible concentration: 1000ppm or less, unintentional content]	(US (state of Vermont) legislation)			
51-25)	Other organic phosphorus compound	-				0		0					

*3 Phtalates

No.	Phthalates No.60	CAS No.	Р	Α	y n	M	SM	С		
60-1)	Dibutyl phthalate	84-74-2	0			0		0	For primary product materials and packaging, substances of which use is prohibited	REACH SVHC, RoHS2, PRTR (1-354) Denmark Phthalate regulation
60-2)	Di(2-ethylhexyl) phthalate	117-81-7	0			0		0	(total for the 3 substances: 0.1wt% or less). For subsidiary materials, management substances.	REACH SVHC, RoHS2, PRTR (1-355) Denmark Phthalate regulation
60-3)		85-68-7	0			0		0	,	REACH SVHC, RoHS2, PRTR (1-356) Denmark Phthalate regulation
60-4)		28553-12-0, 68515-48-0	0			0		0	For primary product materials and packaging, substances of which use is prohibited	
60-5)		26761-40-0, 68515-49-1	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		
60-7)	Dibutyl phthalate (2-methoxyethyl)	117-82-8	0			0		0		REACH SVHC
60-8)	Di-n-hexyl phthalate	84-75-3				0		0		REACH SVHC
60-9)	Diisobutyl phthalate	84-69-5	0			0		0	For primary product materials and packaging, substances of which use is prohibited 1),2),3) and 9), total for the 4 substances:0.1% or less(by July 2014) For subsidiary materials, managed substances.	REACH SVHC、RoHS2、Denmark Phthalate regulation
	Diisoheptyl phthalate	71888-89-6				0		0		REACH SVHC
60-11)	di-C7-11-branched and linear alkyl esters	68515-42-4				0		0		REACH SVHC
60-12)	Diethyl phthalate	84-66-2	0			0		0	For primary product materials and packaging, substances of which use is prohibited	
	Dimethyl phthalate	131-11-3	0			0		0	(0.1wt% or less). For subsidiary materials, managed substances.	
60-14)	Other phthalate	-				0		0		

*4PAHs (polycyclic aromatic hydrocarbons)

No.	PAHs No.100	CAS No.	ΡА	y m	M SM C		
100-1)	Naphthalene	91-20-3	0		0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	PRTR(1-302)
100-2)	Acenaphthene	83-32-9	0		0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	PRTR(1-15)
100-3)	Acenaphthylene	208-96-8	0		0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-4)	Fluorene	86-73-7	0		0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-5)	Phenanthrene	85-01-8	0		0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-6)	Anthracene	120-12-7	0		0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	REACH SVHC, PRTR(1-32)
100-7)	Fluoranthene	206-44-0	0		0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-8)	Pyrene	129-00-0	0		0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-9)	Crysene	218-01-9	0		0	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	REACH SVHC
100-10)	Benz[a]anthracene	56-55-3	0		0	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	REACH SVHC
100-11)	Benzo[b]fluoranthene	205-99-2	0		0	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-12)	Benzo[k]fluoranthene	207-08-9	0		0	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-13)	Indeno-[1,2,3-cd]-pyrene	193-39-5	0		0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-14)	Dibenzo(a,h) anthracene	53-70-3	0		0	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-15)	Benzo(g,h,i) perylene	191-24-2	0		0	[Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-16)	Benzo[a]pyrene	50-32-8	0		0	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	REACH SVHC
100-17)	Benzo(j)fluoranthene	205-82-3	0		0	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	
100-18)	Benzo(e)pyrene	192-97-2	0		0	* [Permissible concentration: Total of 18 kinds is under 10ppm] (Skin-contact use)	

*: under 1ppm for each (REACH Annex X VII)