Green Procurement Guidelines

(Management Standards for Environment-related Controlled Substances)

Standard number: HS-Q3-07

7th Edition 1 September 2023

Kaga Micro Solution Co.,Ltd.

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	HS-Q3-0		Green Procurement Guidelines	Revision	_	
		ons to re	egulations and standards			0. "
	Date	C = === = = =	Revision details			
ľ	2018.1.1		ny name change accompanying business transfer (KAGA MICRC ION CO., LTD. EDMS COMPANY)	•	Sakurai	ikkai
2			pond to the latest chemical substance regulations in each country	/ region	Sakurai	Ikkai
		• Revie	w of controlled substances			
			w management level			
3	2019.9.1		ucted review of inclusion survey method and others.	. /	Calumai	الدادة:
J	2019.9.1		pond to the latest chemical substance regulations in each country ge of controlled substances	/ region	Sakurai	ikkai
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		-	ge of cadmium exemption details			
		_	ge in exemption of lead			
			description change / addition of submission information in environ	mental		
			nce survey			
4	2020.10.1	2,Added	d exemption to scope		Sakurai	Ogura
		We res	pond to the latest chemical substance regulations in each country	/ region		
		• Chang	ge of controlled substances			Staff Ikkai Ikkai
		• Addition	on of RoHS directive exemption information list			
		• Revie	w of a material and each country, local laws and regulations			Ikkai Ogura Ikkai
5	2021.8.1	In respo	onse to the latest chemical substance regulations in each country	/ region,	Sakurai	Ikkai
			w of controlled substances			Ikkai Ikkai
			ction of Hazardous Directive Exemption Information			
			w of substances and laws and regulations of each country / regionse guarantee card addition of substances	n		
6	2022.9.1		onse to the latest chemical substance regulations in each country	/ region,	Sakurai	Ikkai
		-	ew of controlled substances	.		
			ew of substances and laws and regulations of each country / regi	on		
_	0000 0 4		use guarantee card addition of substances	/	0-1	U.L:
7	2023.9.1		onse to the latest chemical substance regulations in each country ew of controlled substances	/ region,	Sakurai	іккаі
			ew of controlled substances ew of substances and laws and regulations of each country / regi	on		
			sion of non-use warranty			
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1. Purpose

Kaga Micro Solution Co.,Ltd. (hereinafter: "the company") shall contribute to environmental conservation through the development, design, manufacture and sales of environmentally-friendly products, based upon its environmental policy. To achieve this goal, the company shall implement a Green Procurement program and actively procure environmentally-friendly materials, parts and products from environmentally-aware companies.

2. Scope

- -The company purchased parts/products/materials/auxiliary materials/packaging materials (Example: electronic parts/mechanism parts/labels/solder/adhesives/plastic bags/packaging/printing, etc.)
- -The company outsourced third-party production of semi-finished products/finished products (However, if there is no customer request for chemical substance management, it will be excluded.)
- -The company outsourced third-party design and production of finished products

 (However, if there is no customer request for chemical substance management, it will be excluded.)

 *packaging and packing used when delivering finished goods is not included.

3. Terms and definitions

(1) Environment-related substances

"Environment-related substances" are classified as any of the following:

- Substances contained within a product that can directly or indirectly cause harm to the body.
- Substances contained within a product that cause pollution when dispersed in the environment.
- Substances contained within a product that should be managed, recovered and reused in order to conserve natural resources
- (2) Management standards for controlled substances

Controlled substances shall be managed according to the following three standards:

1. Prohibited

Substances and their uses Prohibit the use of substances in parts and materials.

2. Controlled

On the date set in each table, the substances and thier applications in the respective tables shall be reclassfied into Level 1.

3. Exemption

Applications excluded from the scope of Levels 1 through 3 taking the exempted items into account. Confirmation of use status of the substance and its application is required as necessary.

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(3) Component

Residue of a substance in parts or devices of a product or in materials of such parts and devices through addition, filling, mixture, or adhesion, whether such addition, filling, mixture, or adhesion is intentional or not. Where a substance is contained in the product unintentionally through mixture or adhesion during processing, it is also considered as content.

(4) Intentional addition

Residuals of a substance in parts or devices of a product or in materials of such parts and devices by intentional addition, filling, mixture, or adhesion, in order to provide certain properties, appearance, characteristics, attributes or quality of the product.

(5) Impurities

Substances that are contained within natural raw materials (natural impurities) which, due to technical reasons, cannot be removed through refining into industrial materials, and substances created during synthetic reactions that cannot be removed. To distinguish them from raw materials, substances which are used to change the properties of a material, which are considered "impurities" are designated as

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4. Green Procurement System at Kaga Micro Solution Co., Ltd.

We hope the parts maker for the construction of the chemical substance regime that followed JAMP publication "Guidelines for the management of chemical substances in products Version 4.0" to realize stable green procurement in the whole supply chain.

supply chain Carrying out the construction and operation of chemical substance management system that conforms to JAMP issued "Guidelines for the management of chemical substances in products Version 4.0". Materials Producers Kaga Micro Solution Co., Ltd. Customers Green Procurement System Environmental Database Chemical substance Chemical substance component survey request component survey request Management System (environmental information about Response Response products and materials) Design & Receipt Quality Delivery of 'green' products materials Delivery of 'green' materials X-ray Fluorescence Spectrometer (to confirm the presence of Pb,Cd,Hg,Cr and Br) _____

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5 Controlled substances and management standards

5.1 Controlled substances

Table 5.1 List of controlled substances

Table 5.1 List of controlled substances Substance Name					
Bis (2-ethylhexyl)phthalate (DEHP)					
Dibutyl phthalate (DBP)					
Benzyl butyl phthalate (BBP)					
Diisobutyl phthalate (DIBP)					
Cadmium and cadmium compounds					
Lead and lead compounds					
Mercury and mercury compounds					
Chromium (VI) compounds					
Polybrominated biphenyls (PBBs)					
Polybrominated diphenylethers (PBDEs)					
Hexabromocyclododecane (HBCDD)					
Polychlorinated biphenyls (PCBs) and specific substitutes					
Polychlorinated naphthalenes (PCNs)					
Polychlorinated terphenyls (PCTs)					
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)					
Tris(2-chloroethyl)phosphate (TCEP)					
Tris(1-chloro-2-propyl)phosphate (TCPP)					
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)					
Polyvinyl chloride (PVC)and PVC blends					
Fluorinated greenhouse gases (PFC, SF6, HFC)					
Ozone depleting substances (ODS)					
Perfluorooctane sulfonates (PFOS)					
Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA					
Perfluorohexanesulfonic acid (PFHxS) and its salts and PFHxS related substances					
Tri-substituted organostannic compounds					
Dibutyltin (DBT) compounds					
Dioctyltin (DOT) compounds					
Beryllium oxide					
Cobalt dichloride					
Diarsenic trioxide					
Diarsenic pentoxide					
Nickel					
Diisononyl phthalate (DINP)					
Di-isodecyl phthalate (DIDP)					
Di-n-octyl phthalate (DNOP)					

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Table 5.1 List of controlled substances Continued

Substance Name
Substance Name
Asbestos
Azocolourants and azodyes which form certain aromatic amines
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)
Dimethyl fumarate (DMF)
Polycyclic aromatic hydrocarbons (PAH)
Brominated flame retardants (BFR)
Chlorinated flame retardants (CFR)
Phenol, Isopropylated Phosphate (PIP) (3:1)
Long-chain (C9-C20) perfluorocarboxylic acids (PFCAs) and its salts
Dechlorane Plus
Pentachlorothiophenol(PCTP)
Hexachlorobutadiene(HCBD)
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)
Substances in candidate list for authorization of EU REACH regulation(SVHC)

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5.2 Main ″ ⁻	Main "Targets" and "Effective date of the ban on the delivery" regarding 'ControlledSubstances' Table 5.2 Main "Targets" and "Effective date of the ban on the delivery" regarding 'ControlledSubstances' Material group/Material name				
		Material group/Material name			CAS No
		nalate (DEHP)			117-81-7
Diisobutyl ph		DIBP)			84-69-5
Mgmt level	- Parts and materials for EEE - Parts and materials for carrying bags, carrying cases, carrying pouches				
Pronibited	- Parts	and materials for children's toy or child care article			d DIBP is less
		Material group/Material name			CAS No
	d cadmiur	m compounds	1	T' ' 111	_
Mgmt level Prohibited	(See "5.	3 Additional rules for packaging components and	less than 10		rel
Exemption	Refer to	Table 5.3	<u> </u>		
		M. Carial array (Matarial mone)			CAC No.
Lead and lea	d compou				- CAS No
Mgmt level				Threshold lev	rel
Prohibited	(See "5.		less than 10	000ppm	
Exemption	Refer to	Table 5.3	•		
		Material group/Material name			CAS No
Mercury and	mercury				-
Mgmt level		Targets	ļ.,,		rel
Prohibited	(See "5. material	s." See "5.4 Additional rules for batteries.")	less than 10	000ppm	
Exemption	Refer to	Table 5.3			
		Material group/Material name			CAS No
Chromium (V	I) compo	unds			_
Mgmt level	– Natura	Targets al leather parts and materials	Less than 3	Threshold lev Sppm of total dry v	
Prohibited		olication other than the above 3 Additional rules for packaging components and	less than 1	000ppm	
		Material group/Material name			CAS No
Polybrominat	ed bipher				-
Mgmt level Prohibited	– All	Targets	1000ppm未	Threshold lev 満	rel
		Material group/Material name			CAS No
Polybrominat	ed dipher	nylethers (PBDEs)			- CAS NO
Mgmt level		Targets		Threshold lev	rel
Prohibited	– All		1000ppm未	満	

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llation number	Regulation name		Page	1/20		
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	Material group/Material name	2		CAS No		
Hexabromocyclododecane (HBCDD)						
nt level	Targets		Threshold le	evel		
Prohibited - All Intentional use prohibited a						
	Material group/Material name	Э		CAS No		
chlorinated bipheny	rls (PCBs) and specific substitutes			_		
nt level	Targets		Threshold le			
hibited - All		Intentional u	se prohibited an	d less than 50ppm		
	Material group/Material name	Э		CAS No		
chlorinated naphtha				<u> </u>		
nt level	Targets	5	Threshold le	evel		
hibited - All		Prohibition o	f intentional use			
	Material group/Material name	e		CAS No		
chlorinated terpher				_		
nt level	Targets		Threshold le	evel		
hibited - All		less than 50 _l	opm			
	Material group/Material name			CAS No		
nes, C10-13, chloro	(Short Chain Chlorinated Paraffins) (SCC			-		
nt level	Targets		Threshold le	evel		
hibited - All		Intentional use	e prohibited and le	ss than 1000ppm		
	Material group/Material name			CAS No		
2-chloroethyl)phos				115-96-8		
nt level	Targets		Threshold le	evel		
hibited - All		less than 100	00ppm			
	Material group/Material name	<u> </u>		CAS No		
1-chloro-2-propyl)				13674-84-5		
nt level	Targets		Threshold le			
hibited - All		less than 100	00ррт			
	Material group/Material name			CAS No		
1,3-dichloro-2-pro	pyl)phosphate (TDCPP)			13674-87-8		
nt level	Targets		Threshold le			
hibited - All		less than 100	00ррт			
nt level	· · · · · · · · · · · · · · · · · · ·	less than 100				

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		Material group/Material name			CAS No
Polyvinyl chlo	oride (PVC)a	nd PVC blends			9002-86-2
Mgmt level		Targets		Thresho	ld level
Prohibited	- Carrying I cameras, video camc professiona - Cable ties - Packaging transport products or and blister pack (Note that psemiconducts icks, stop - Heat shrii - Flexible fl - Insulating	s used for accessories and connecting cords g components and materials to protect, contain, or supplied accessories (e.g. bags, adhesive tapes, cartons,		on of intention	
Controlled	exterior of v - Suction c	nd laminates (including sheets and laminates used for wooden speakers) ups for mounting in-vehicle products			
Controlled	- All except	L LITE ANOVE			
		Material group/Material name			CAS No
Fluorinated g	reenhouse g	gases (PFC, SF6, HFC)			-
Mgmt level		Targets		Thresho	ld level
Prohibited	– All		Prohibitio	on of intention	onal use
		Material group/Material name			CAS No
Ozone deplet					_
	of Annexes A	A, B, C and E of Montreal Protocol(See the website below)	T		
Mgmt level		Targets		Thresho	
Prohibited	– All		Prohibitio	on of intention	onal use
		M			
Perfluoroocta		Material group/Material name			CAS No
Mgmt level	ane sultonate	Targets		Thresho	- Id lavel
Prohibited	– All	, u, goto	1000ppm molded p	nal use proh in semi-fini roducts and an 1 μg/m2	ibited and less than shed products,
		Material group/Material name			CAS No
Perfluoroacta	anoic acid (P	PFOA) and individual salts and esters of PFOA			
Mgmt level		Targets		Thresho	ld level
	– All	. 41 8000	•Intention		ibited and PFOA
Prohibited			(including •For one substance	salt) is less or more PF es in combin	s than 0.025ppm
	<u> </u>		<u> </u>		
		Material group/Material name			CAS No
Perfluorohex	ane-1-sulfor	nic acid (PFHxS) and its salts and related substances			
Mgmt level		Targets		Thresho	ld level
Prohibited	– All		•For PFH 0.025ppm •In the ca more PFH	n ase of a cor HxS-related	oited and ag salt), less than ablimation of one or substances, the s less than 1 ppm

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				<u> </u>	
		Material group/Material name			CAS No
	ıtyltin (T	BT) compounds and triphenyltin (TPT) compounds			-
Mgmt level	<u> </u>	Targets		Threshold le	
Prohibited	– All		Less tha	an 1000 ppm tin co	oncentration
		Material group/Material name			CAS No
Dibutyltin (DE	3T) comp	ounds			_
Mgmt level		Targets		Threshold le	
Prohibited	– All		Less tha	an 1000 ppm tin co	oncentration
		Material group/Material name			CAS No
Dioctyltin (DC	OT) com	oounds			-
Mgmt level	1	Targets		Threshold le	evel
		e and leather articles intended to come into contact with	Less tha	an 1000 ppm tin co	oncentration
Prohibited	- Two-c	are articles component room temperature vulcanisation moulding kits moulding kits)			
		Material group/Material name			CAS No
Beryllium oxid	de				-
Mgmt level		Targets		Threshold le	evel
Controlled	– All	<u> </u>	less tha	in 1000ppm	
		Material group/Material name			CAS No
Cobalt dichlor	ride				7646-79-9
Mgmt level		Targets		Threshold le	evel
				nally added	
Prohibited	dichlorid			ın 1000ppm	
Controlled	All app	olication other than the above	less tha	in 1000ppm	
		Matarial mana		<u> </u>	040 N-
Diarsenic trio	:3.	Material group/Material name			CAS No
	xiae	Targata	Г	Threshold le	1327-53-3
Mgmt level	- Glass	Targets for LCD panels (including cover glasses,touchscreens, and	loce tha	inresnoid is in 1000ppm	ei
Prohibited	backlight	ts)			
Controlled	All app	olication other than the above	less tha	in 1000ppm	
		Material group/Material name			CAS No
Diarsenic pen	toxide				1303-28-2
Mgmt level		Targets		Threshold le	evel
Prohibited	backlight	ts)		in 1000ppm	
Controlled	All apr	plication other than the above	less tha	ın 1000ppm	

Nickel Mgmt level Targets Threshold level Prohibited - All, where prolonged skin contact is expected Prohibition of intentional use Controlled - All application other than the above - Material group/Material name C. Diisonopyl phthalate (DINP)	AS No AS No 53-12-0 15-48-0
Mgmt level Targets Threshold level Prohibited - All, where prolonged skin contact is expected Prohibition of intentional use Controlled - All application other than the above - Material group/Material name C. Diisononyl phthalate (DINP) 285 685 Mgmt level Targets Threshold level Prohibited - Parts and materials for children's toy or child care article that can be placed in a child's mouth	– AS No 53–12–0 15–48–0
Mgmt level Targets Threshold level Prohibited - All, where prolonged skin contact is expected Prohibition of intentional use Controlled - All application other than the above - Material group/Material name C. Diisononyl phthalate (DINP) 285 685 Mgmt level Targets Threshold level Prohibited - Parts and materials for children's toy or child care article that can be placed in a child's mouth	– AS No 53–12–0 15–48–0
Mgmt level Targets Threshold level Prohibited - All, where prolonged skin contact is expected Prohibition of intentional use Controlled - All application other than the above - Material group/Material name C. Diisononyl phthalate (DINP) 285. 685 Mgmt level Targets Threshold level Prohibited - Parts and materials for children's toy or child care article that can be placed in a child's mouth	53-12-0 15-48-0
Prohibited - All, where prolonged skin contact is expected Prohibition of intentional use Controlled - All application other than the above - Material group/Material name C. Diisononyl phthalate (DINP) 285 685 Mgmt level Targets Threshold level Prohibited - Parts and materials for children's toy or child care article that can be placed in a child's mouth	53-12-0 15-48-0
Controlled - All application other than the above - Material group/Material name C. Diisononyl phthalate (DINP) 285 685 Mgmt level Targets Threshold level Prohibited - Parts and materials for children's toy or child care article that can be placed in a child's mouth Less than 1000ppm of plasticized materials for children's toy or child care article that can be placed in a child's mouth	53-12-0 15-48-0
Diisononyl phthalate (DINP) Mgmt level Prohibited Targets Threshold level Prohibited Prohibited Less than 1000ppm of plasticized materials for children's toy or child care article that can be placed in a child's mouth	53-12-0 15-48-0
Diisononyl phthalate (DINP) Mgmt level Prohibited Targets Threshold level Prohibited Prohibited Less than 1000ppm of plasticized materials for children's toy or child care article that can be placed in a child's mouth	53-12-0 15-48-0
Mgmt level Targets Threshold level Prohibited Prohibited Can be placed in a child's mouth 685 Less than 1000ppm of plasticized materials for children's toy or child care article that can be placed in a child's mouth	15-48-0
Mgmt level Targets Threshold level Prohibited Prohibited Prohibited Targets Threshold level Less than 1000ppm of plasticized materials for children's toy or child care article that can be placed in a child's mouth	
Prohibited	aterial
Controlled - All application other than the above -	
5 1	AS No
DIEROGECVI potografe (DIDP)	61-40-0 15-49-1
Mgmt level Targets Threshold level	
Prohibited	aterial
Controlled - All application other than the above -	
Maria (Maria	
- '	AS No 7-84-0
Mgmt level Targets Threshold level	7 04 0
Prohibited	aterial
Material group/Material name C	AS No
Asbestos	-
Mgmt level Targets Threshold level	
Prohibited - All Prohibition of intentional use	

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	Material group/Material name		CAS No

	Material group/Material name		CAS No
_	d pigments that generate some aromatic amines nines sare for the substances shown in Table 5.2b.		See below
Mgmt level	Targets	Threshold lev	el
Prohibited		Less than 30ppm generated an of finished textile/leather prod	

Table 5.2b List of certain aromatic amines

CAS No.	Substance name
92-67-1	4-aminodiphenyl
92-87-5	benzidine
95-69-2	4-chloro-o-toluidine; 4-chloro-2-methylaniline
91-59-8	2-naphthylamine
97-56-3	o-aminoazotoluene
99-55-8	2-amino-4-nitrotoluene; 5-nitro-o-toluidine
106-47-8	p-chloroaniline
615-05-4	2,4-diaminoanisole
101-77-9	4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline
91-94-1	3,3'-dichlorobenzidine
119-90-4	3,3'-dimethoxybenzidine
119-93-7	3,3'-dimethylbenzidine
838-88-0	3,3'-dimethyl-4,4'-diaminodiphenylmethane; 4,4'-diamino-3,3'-diphenylmethane
120-71-8	p-cresidine; 6-methoxy-m-toluidine
101-14-4	4,4'-methylene-bis-(2-chloroanilene)
101-80-4	4,4'-oxideaniline
139-65-1	4,4'-thiodianiline; 4,4'-diaminodiphenylsulfide
95-53-4	o-toluidine
95-80-7	2,4-toluylenediamine; 4-methyl-m-phenylenediamine
137-17-7	2,4,5-trimethylaniline
90-04-0	o-anisidine
60-09-3	4-aminoazobenzene

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		Makarial mana /Makarial mana	-		OACN
2-honzotrioza	0 -2-1 -4	Material group/Material name ,6-di-tert-butylphenol (UV-320)			CAS No 3846-71-7
Mgmt level	01 Z y1 4	Targets		Threshold le	
Prohibited -	_ AII	i ai gets	Intentional	se and less than	
Profibited	All		intentional u	se and less than	ТОООРРП
		Material group/Material name			CAS No
Dimethyl fuma	arate (DN				624-49-7
Mgmt level	larace (Di	Targets		Threshold le	
Prohibited -	– AII	raigoto	less than 0.1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Frombited	7 (11		1033 (11411 0.1	ррш	
		Material group/Material name			CAS No
Polycyclic ar	omatic by	rdrocarbons (PAH)			- CAS NO
Benzo (a) pyr					50-32-8
Benzo (a) pyr					192-97-2
Benzo (e) pyr Benzo (a) Ant					56-55-3
Chrysene (Ch		(μαπ)			218-01-9
Benz (b) Fluo		(DLEA)			1
• • •		· · · · ·			205-99-2
Benzo (i) Fluc		*			205-82-3
Benzo (k) Flu					207-08-9
Dibenzo (a, h)) anthrac	ene (DBAhA)			53-70-3
		- .		-	
Mgmt level	- Dubbar	Targets	Loop than O	Threshold le	
-		Targets or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact	Less than 0.	Threshold le 5ppm in plastic	
in Prohibited -	into direc - Rubber	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or			or rubber parts
in Prohibited -	into direc - Rubber repetitive	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or		5ppm in plastic	or rubber parts
Prohibited - r	into direc - Rubber repetitive childcare	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or articles		5ppm in plastic	or rubber parts rubber parts
Prohibited - r c	into direc - Rubber repetitive childcare	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or articles Material group/Material name rdants (BFR)(other than PBBs, PBDEs, or HBCDD)		5ppm in plastic	crubber parts CAS No
Prohibited r c	into direc Rubber repetitive childcare	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or articles Material group/Material name	Less than 1g	5ppm in plastic or opm in plastic or Threshold le	crubber parts CAS No
Prohibited - r c	into direc Rubber repetitive childcare lame reta Printed	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or articles Material group/Material name rdants (BFR)(other than PBBs, PBDEs, or HBCDD) Targets	Less than 1g Total bromin less than 90	5ppm in plastic or opm in plastic or Threshold le	CAS No Cas No case of the ca
Prohibited - r c	into direc Rubber repetitive childcare lame reta Printed	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or articles Material group/Material name rdants (BFR)(other than PBBs, PBDEs, or HBCDD) Targets Wiring Board (PWB) Laminates materials except printed wiring board laminates	Less than 1g Total bromin less than 90 Less than 10	5ppm in plastic or opm in plastic or Threshold le e content in suk	CAS No Cas No
Prohibited - r c	into direc Rubber repetitive childcare lame reta Printed Plastic	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or articles Material group/Material name rdants (BFR)(other than PBBs, PBDEs, or HBCDD) Targets Wiring Board (PWB) Laminates materials except printed wiring board laminates Material group/Material name	Less than 1g Total bromin less than 90 Less than 10	5ppm in plastic or opm in plastic or Threshold le e content in suk	CAS No Cas No case of the ca
Prohibited r Brominated fl Mgmt level - Controlled -	into direc Rubber repetitive childcare lame reta Printed Plastic	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or articles Material group/Material name rdants (BFR)(other than PBBs, PBDEs, or HBCDD) Targets Wiring Board (PWB) Laminates materials except printed wiring board laminates Material group/Material name rdants (CFR)(other than TCEP, TCPP, or TDCPP)	Less than 1g Total bromin less than 90 Less than 10	5ppm in plastic or opm in plastic or Threshold le e content in sul 0ppm	CAS No - evel costrate material inine in plastic CAS No
Prohibited - r c c c c c c c c c c c c c c c c c c	into direc Rubber repetitive childcare lame reta Printed Plastic	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or articles Material group/Material name rdants (BFR)(other than PBBs, PBDEs, or HBCDD) Targets Wiring Board (PWB) Laminates materials except printed wiring board laminates Material group/Material name rdants (CFR)(other than TCEP, TCPP, or TDCPP) Targets	Total bromin less than 10 materials	5ppm in plastic or opm in plastic or Threshold le e content in sul 0ppm 000 ppm as bron	CAS No cvel costrate material in plastic CAS No CAS No cvel CAS No cvel
Prohibited - r c c c c c c c c c c c c c c c c c c	into direc Rubber repetitive childcare lame reta Printed Plastic lame reta	or plastic parts of toys and childcare articles that come t, prolonged or repetitive skin or oral cavity contact or plastic parts that come into direct, prolonged or skin or oral cavity contact except those for toys or articles Material group/Material name rdants (BFR)(other than PBBs, PBDEs, or HBCDD) Targets Wiring Board (PWB) Laminates materials except printed wiring board laminates Material group/Material name rdants (CFR)(other than TCEP, TCPP, or TDCPP)	Total bromin less than 10 materials	Threshold le Threshold le Threshold le Threshold le Threshold le	CAS No cvel costrate material in plastic CAS No CAS No cvel CAS No cvel

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	Material group/Material name			CAS No
Substances in candi	date list for authorization of EU REACH regulation(SVH	C)		-
Mgmt level	Targets	<u> </u>	Threshold le	 evel
Controlled - All		Less than	1000ppm in articl	
		<u>!</u>		
	Material group/Material name			CAS No
Phenol, Isopropylate	d Phosphate (PIP) (3:1)			68937-41-7
Mgmt level	Targets		Threshold le	evel
Prohibited - All		Prohibition	of intentional us	e
	Material group/Material name			CAS No
Long-chain (C9-C14) perfluorocarboxylic acids (PFCAs) and its salts			_
Mgmt level	Targets		Threshold le	
Prohibited - All		Prohibition	of intentional us	e
				1
	Material group/Material name			CAS No
D				
Pentachlorothiophen		<u> </u>	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	133-49-3
Mgmt level	ol(PCTP) Targets	D Livi	Threshold le	evel
		Prohibition	Threshold lo	evel
Mgmt level	Targets	Prohibition		evel e
Mgmt level Prohibited - All	Targets Material group/Material name	Prohibition		evel e CAS No
Mgmt level Prohibited - All Hexachlorobutadiene	Targets Material group/Material name e(HCBD)	Prohibition	of intentional us	CAS No 87-68-3
Mgmt level Prohibited - All Hexachlorobutadiene Mgmt level	Targets Material group/Material name		of intentional us Threshold le	CAS No 87-68-3
Mgmt level Prohibited - All Hexachlorobutadiene Mgmt level	Targets Material group/Material name e(HCBD)		of intentional us	CAS No 87-68-3
Mgmt level Prohibited - All Hexachlorobutadiene Mgmt level	Targets Material group/Material name e(HCBD)		of intentional us Threshold le	CAS No 87-68-3
Mgmt level Prohibited - All Hexachlorobutadiene Mgmt level	Targets Material group/Material name e(HCBD) Targets		of intentional us Threshold le	CAS No 87-68-3 evel
Mgmt level Prohibited - All Hexachlorobutadiene Mgmt level Prohibited - All	Targets Material group/Material name e(HCBD) Targets		of intentional us Threshold le	CAS No 87-68-3 evel e CAS No 13560-89-9
Mgmt level Prohibited - All Hexachlorobutadiene Mgmt level Prohibited - All Dechlorane Plus	Material group/Material name e(HCBD) Targets Material group/Material name	Prohibition	of intentional us Threshold le	CAS No 87-68-3 evel e CAS No 13560-89-9 evel
Mgmt level Prohibited - All Hexachlorobutadiene Mgmt level Prohibited - All Dechlorane Plus Mgmt level	Material group/Material name e(HCBD) Targets Material group/Material name	Prohibition	Threshold lo	CAS No 87-68-3 evel e CAS No 13560-89-9 evel
Mgmt level Prohibited - All Hexachlorobutadiene Mgmt level Prohibited - All Dechlorane Plus Mgmt level	Material group/Material name e(HCBD) Targets Material group/Material name	Prohibition	Threshold lo	CAS No 87-68-3 evel e CAS No 13560-89-9 evel
Mgmt level Prohibited - All Hexachlorobutadiene Mgmt level Prohibited - All Dechlorane Plus Mgmt level Prohibited - All	Material group/Material name e(HCBD) Targets Material group/Material name Targets	Prohibition	Threshold lo	CAS No 87-68-3 evel e CAS No 13560-89-9 evel e
Mgmt level Prohibited - All Hexachlorobutadiene Mgmt level Prohibited - All Dechlorane Plus Mgmt level Prohibited - All	Targets Material group/Material name e(HCBD) Targets Material group/Material name Targets Material group/Material name	Prohibition Prohibition	Threshold lo	CAS No 87-68-3 evel e CAS No 13560-89-9 evel e CAS No 25973-55-1 evel

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Table 5.3 RoHS Directive Exempted Applications

* Exclusion deadline: Categories 1-7, 10

No	Material	Exemption	Exclusion deadline
1(f)- I	Hg	Mercury in single capped (compact) fluorescent lamps for lamps designed to emit mainly light in the ultraviolet spectrum: not exceeding (per burner) 5 mg	2027/2/24
1(f)− II	Hg	Mercury in single capped (compact) fluorescent lamps for special purposes: not exceeding (per burner) 5 mg	2025/2/24
2(b)(3)	Hg	Mercury in other fluorescent lamps Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9) not exceeding (per lamp): 15 mg	2025/2/24
2(b)(4)	Hg	Mercury in other fluorescent lamps for other general lighting and special purposes (e.g. induction lamps)not exceeding (per lamp): 15 mg	Under deliberation
3(a)	Hg	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Short length (\leq 500 mm) not exceeding (per lamp): 3.5 mg	Under deliberation
3(b)	Hg	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Medium length (> 500 mm and \leq 1 500 mm) not exceeding (per lamp):5 mg	Under deliberation
3(c)	Hg	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Long length (> 1 500 mm) not exceeding (per lamp):13 mg	Under deliberation
4(a)- I	Hg	Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lampspectral output to be in the ultraviolet spectrum: up to 15mg (per lamp)	2027/2/24
4(b)	Hg	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra $>$ 80: P \leq 105 W: 16 mg may be used per burner	2027/2/22
4(c)-I	Hg	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes P \leq 155 W not exceeding (per burner):20 mg	2027/2/24
4(c)-II	Hg	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes 155 W $<$ P \le 405 W not exceeding (per burner):25 mg	2027/2/24
4(c)-III	Hg	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes P > 405 W not exceeding (per burner):25 mg	2027/2/24
4 (e)	Hg	Mercury in metal halide lamps (MH)	2027/2/22
4(f)- I	Hg	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	2025/2/23
4(f)− II	Hg	Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required	2027/2/24
4(f)-Ⅲ	Hg	Mercury in high pressure sodium vapour lamps used for horticulture lighting	2027/2/24
4(f)- IV	Hg	Mercury in lamps emitting light in the ultraviolet spectrum	2027/2/24
5(b)	Pb	Lead in glass of fluorescent tubes not exceeding 0.2% by weight	Under deliberation
6(a)	Pb	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight	Under deliberation
6(a)-I	Pb	Lead as an alloying element in steel for machining purposes containing up to 0,35 $\%$ lead by weight and in batch hot dip galvanised steel components containing up to 0,2 $\%$ lead by weight	Under deliberation
6(b)	Pb	Lead as an alloying element in aluminium containing up to 0.4% lead by weight	Under deliberation
6(b)-I	Pb	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling	Under deliberation
6(b)-II	Pb	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	Under deliberation
6(c)	Pb	Copper alloy containing up to 4% lead by weight	Under deliberation

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No	Material	Exemption	Exclusion deadline	
7(a)	Pb	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)(except applications covered by point 24 of this Annex)	Under deliberation	
7(c)–I	Pb	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound (except applications covered under point 34)	Under deliberation	
7(c)-II	Pb	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher (Does not apply to applications covered by point 7(c)-I and 7(c)-IV of this Annex)	Under deliberation	
			Under deliberation	1
8(b)–I	Cd	Cadmium and its compounds in electrical contacts used in: — circuit breakers, — thermal sensing controls, — thermal motor protectors (excluding hermetic thermal motor protectors), — AC switches rated at: — 6 A and more at 250 V AC and more, or — 12 A and more at 125 V AC and more, — DC switches rated at 20 A and more at 18 V DC and more, and — switches for use at voltage supply frequency ≥ 200 Hz		
13(a)	Pb	Lead in white glasses used for optical applications	Under deliberation	
13(b)	Cd,Pb	Cadmium and lead in filter glasses and glasses used for reflectance standards	Under deliberation	
13(b)-(I)	Pb	Lead in ion coloured optical filter glass types	Under deliberation	
13(b)-(II)	Cd	Cadmium in striking optical filter glass types; excluding applications falling under point 39 of the Annex III	Under deliberation	
13(b)-(III)	Cd,Pb	Cadmium and lead in glazes used for reflectance standards	Under deliberation	
15	Pb	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	Under deliberation	
15(a)	Pb	Lead 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: — a semiconductor technology node of 90 nm or larger; —a single die of 300 mm2 or larger in any semiconductor technology node; —stacked die packages with die of 300 mm2 or larger, or silicon interposers of 300 mm2 or larger.	Under deliberation	
18(b)	Pb	Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi2O5:Pb)	Under deliberation	
18(b)–I	Pb	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi2O5:Pb) when used in medical phototherapy equipment	Under deliberation	
24	Pb	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Under deliberation	
29	Pb	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	Under deliberation	
32	Pb	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	Under deliberation	
34	Pb	Lead in cermet-based trimmer potentiometer elements	Under deliberation	1
39(a)	Cd	Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications ($< 0.2 \mu g$ Cd per mm2 of display screen area)	Under deliberation	

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5.3 Rules related with packaging components and materials

Definition of packaging components and materials

Packaging components and materials are defined as products made from any materials and components of any nature to be used for the containment, protection, handling, delivery and presentation of goods, from raw materials to processed goods from the producer to the user or consumer.

(Note) Excluding the packaging under control of the carrier or the supplier which is not discharged by Kaga Micro Solution Co.,Ltd. or the end user but to be collected and recycled, such as returnable containers.

Table 5.4 Additional rules for packaging components and materials

	Heavy metals (cadmium, lead, mercury, and hexavalent chromium)				
Mgmt level	Targets	Threshold level			
Prohibited	- All packaging components and materials	100 ppm (or 0.01 wt%) or more of the total-concentration of four heavy metals (cadmium, lead, mercury, and hexavalent chromium) in each part, ink, or paint that constitutes a package			
Exemption	n – Cartons for returnable boxes owned by carriers or parts suppliers				

Table 5.5 Specific examples of packaging components and material and their identification

Pac	Packaging materials used for Kaga Micro Solution Co.,Ltd. products and for packaging of supplier parts				
	PACKAGING				
1.	Cartons (boxes)	Item packaging, sub-master cartons, and master cartons made from any material			
2.	Cushioning				
3.	Protective bags (sheets)	Materials made from foamed plastic or non-woven fabric			
4.	Plastic bags				
5.	Envelopes	Envelopes containing warranty certificates, etc.			
6.	Blister packs				
7.	Film	Including protective films used for LCD displays			
8.	Partitions/spacer s				
10.	Adhesive tape	Tape used to seal cartons and plastic bags or for fixing or protection of movable components			
11.	Labels	Product information labels and barcode labels, etc. that are affixed to packaging materials			
12.	Binding band	PP bands, etc.			
13.	Outer boxes				
14.	Magazine sticks	Used for transportation of products			
15.	Trays				
16.	Reels				

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5.4 Rules for batteries

The following substances are subject to regulation for batteries.

Table 5.6 Detail for cadmium, lead and mercury for batteries

	Cadmium and cadmium compound			
Mgmt level	Targets	Threshold level		
	 Carbon zinc batteries (except button cells) Alkaline manganese batteries (except button cells) Nickel hydrogen rechargeable batteries (except button cells) 	Less than 10 ppm of cadmium in batteries		
	- All other batteries	Less than 20ppm of cadmium in batteries		

Lead and lead compounds			
Mgmt level	mt level Targets Threshold level		
Prohibited	- Alkaline manganese batteries (except button cells)	Less than 40ppm of lead in battery	
Frombited	- All other batteries	Less than 100ppm of lead in battery	

Mercury and mercury compounds			
Mgmt level	Targets	Threshold level	
Prohibited	- All batteries	less than 1 pp, of mercury in intentional use or batteries; Less than 5ppm of mercury in homogeneous materials	

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5.5 Substances, laws and regulations in various countries

Note) This information is confirmed as of August 2023. The revised edition and appendix should be also referred if there are. The laws and regulations cited herein are subject to change, and it is essential to consult the latest editions of the relevant laws and regulations.

Substances	Laws and regulations (examples)
Cadmium and cadmium compounds	European Union. REACH Regulation (EC) No. 1907/2006.Annex XVII
	European Union. RoHS Directive 2011/65/EU.
	European Union. Batteries Directive 2006/66/EC.
Lead and lead compounds	European Union. REACH Regulation (EC) No. 1907/2006.Annex XVII
	European Union. RoHS Directive 2011/65/EU.Annex XVII
	European Union. Batteries Directive 2006/66/EC.
Mercury and mercury compounds	European Union. REACH Regulation (EC) No. 1907/2006.Annex XVII
	European Union. RoHS Directive 2011/65/EU.
	European Union. Batteries Directive 2006/66/EC.
Hexavalent chromium compounds	European Union. REACH Regulation (EC) No. 1907/2006.Annex XVII
·	European Union. RoHS Directive 2011/65/EU.
Polybrominated biphenyls (PBB)	European Union. Persistent Organic Pollutants (POPs) Regulation (EC) No. 2019/1021
	European Union. RoHS Directive 2011/65/EU.
D. I. I. I. I. I. (DDDE)	European Union. Persistent Organic Pollutants (POPs) Regulation (EC) No. 2019/1021
Polybrominated diphenylethers (PBDE)	European Union. RoHS Directive 2011/65/EU.
Hexabromocyclododecane (HBCDD)	European Union. REACH Regulation (EC) No. 1907/2006.
	European Union. EU POPs Regulation (EC) No 2019/1021.
	European Union. EU POPs Regulation (EC) No 2019/1021.
D	Japan: Law Concerning the Examination and Regulation of
Polychlorinated biphenyls (PCB)	Manufacture,etc.of Chemical substances, Class 1
	European Union. EU POPs Regulation (EC) No 2019/1021.
Dahada da ada da ada da da CONO	Japan: Law Concerning the Examination and Regulation of
Polychlorinated naphthalenes (PCN)	Manufacture,etc.of Chemical substances, Class 1
	European Union. EU POPs Regulation (EC) No 2019/1021.
Polychlorinated terphenyls (PCT)	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII.
Short-chain chlorinated paraffins (SCCP)	European Union. EU POPs Regulation (EC) No 2019/1021.
Tris(2-chloroethyl) phosphate (TCEP),Tris(2-chloro-1-methylethyl) phosphate(TCPP), Tris(1,3-dichloro-2- propyl)phosphate (TDCPP)	United States. Vermont State. Act 85
Hydrofluorocarbon (HFC), Perfluorocarbon (PFC), Sulfur hexafluoride (SF6)	European Union.Regulation (EU) No 517/2014
Ozone depleting substances (ODS)	[EU] Regulation on substances that deplete the ozone layer (EC) No. 1005/2009;
	Montreal Protocol on Substances that Deplete the Ozone Layer
Perfluorooctane sulfonates (PFOS)	European Union. EU POPs Regulation (EC) No 2019/1021.
	Japan: Law Concerning the Examination and Regulation of Manufacture,etc.of Chemical substances, Class 1
Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA	European Union. Persistent Organic Pollutants (POPs) Regulation (EC) No. 2019/1021

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Substances	Laws and regulations (examples)		
Trisubstituted organic tin compounds(incl. tributyltin (TBT)	European Union. REACH Regulation (EC) No. 1907/2006 Annex		
compounds and triphenyltin (TPT) compounds)	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I and Class II.		
Dibutyltin (DBT) compounds	European Union. REACH Regulation (EC) No. 1907/2006 AnnexXVII.		
Dioctyltin (DOT) compounds	European Union. REACH Regulation (EC) No. 1907/2006 AnnexXVII.		
Cobalt dichloride	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII.		
Diarsenic trioxide, Diarsenic pentaoxide	European Union. REACH Regulation (EC) No. 1907/2006 XIV.		
Bis (2-ethylhexyl)phthalate, Dibutyl phthalate, Benzyl butyl	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII.		
phthalate,Diisobutyl phthalate	European Union. RoHS Directive 2011/65/EU, 2015.863/EU.		
Asbestos	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII.		
Specific azo compounds	European Union. REACH Regulation (EC) No. 1907/2006 AnnexXVII.		
2-benzotriazol-2-yl-4,6-di-tert- butylphenol(UV-320)	European Union. REACH Regulation (EC) No. 1907/2006 AnnexXVII.		
Dimethyl fumarate (DMF)	European Union. REACH Regulation (EC) No. 1907/2006 AnnexXVII.		
Polycyclic aromatic hydrocarbons (PAHs)	European Union. REACH Regulation (EC) No. 1907/2006 AnnexXVII.		
Nickel and Nickel compounds	European Union. REACH Regulation (EC) No. 1907/2006 AnnexXVII.		
Phenol, Isopropylated Phosphate (PIP) (3:1)	USA:TSCA Priority chemicals		
Long-chain (C9-C14) perfluorocarboxylic acids (PFCAs) and its salts	European Union. REACH Regulation (EC) No. 1907/2006 Annex		
Pentachlorothiophenol(PCTP)	USA:TSCA Priority chemicals		
Hexachlorobutadiene(HCBD)	USA:TSCA Priority chemicals		
Dechlorane Plus	Canada Prohibition of Certain Toxic Substances Regulations		
2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	European Union. Persistent Organic Pollutants (POPs) Regulation (EC) No. 2019/1021		

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6. Survey procedures for environment-related substances

(1)When requested to investigate environmental-related substances of procurement items from the Company, please provide the following information.

- 1) \[\chemSHERPA-AI/CI \]
 - *\Gamma\chemSHERPA \cdot \https://chemsherpa.net/tool
- 2) Material Component Analysis or Product Safety Data Sheets (MSDS)
 - * General electronic components are not required in principle.

Please obtain the material list of all the parts and raw materials used for procured items from the manufacturer, grasp the content of each substance and submit the material list or product safety data sheet (MSDS).

- 3) Detailed analysis data of RoHS substances
- * General electronic components are not required in principle.
- * Please submit the detailed analysis data for the ten RoHS substances for plastics (including rubber), paints and inks.
- * Please submit the detailed analysis data for four substances (Cd, Pb, Hg, Cr⁺⁶) for metals.

Ten RoHS substances

Cadmium and cadmium compounds (Cd)

Bis (2-ethylhexyl)phthalate (DEHP)

Lead and lead compounds (Pb)

Dibutyl phthalate (DBP)

Hexavalent chromium compounds (Cr⁺⁶)

Diisobutyl phthalate (DIBP)

Polybrominated diphenylethers (PBDE)

Polybrominated biphenyls (PBB)

Period of validity for the detailed analysis data of the RoHS substances

In principle, the detailed analysis data of the RoHS substances which can be contained in newly adopted parts is valid for two years from the date of analysis.

- 4) Certificate of non-inclusion
 - * General electronic components are not required in principle.

Please submit the "Certificate for environment-related substances within products" (HS-Q3-07 Form-1) to ensure that you are not using substances whose control level is "prohibited".

(2) Confirmation of Procured Goods

This company shall regularly check for the presence of controlled substances contained within procured goods as follows:

- 1. Goods shall be tested for cadmium (Cd), lead (Pb), mercury (Hg), chrome (Cr) and bromine (Br) using a fluorescent x-ray spectrometer.
- 2. If there is any evidence of controlled substances after fluorescent x-ray analysis, the company may ask the supplier to submit a detailed analysis of the RoHS substances again.
- (3) Correspondence when changing
 - * Changes in materials, material suppliers, production sites, manufacturing processes, etc. Please submit the necessary data to the department in charge of surveys depending on the changes.

Kaga Micro Solution Co., Ltd.

Date:

Company name: Department name: Person in charge:

Sign or Stamp

Certificate for environment-related substances within products (Ver. 5)

This is to certify that none of the parts, materials or units supplied to your company contain "Prohibited" substances (prohibited substances) in their materials, packaging or additives used during manufacture.

* Please refer to Green Procurement Guideline (HS-Q3-07) for details of "Prohibited" substances and uses.

Prohibited Substances

FIOI	libited Substances		
1	Cadmium and cadmium compounds	22	Dioctyltin (DOT) compounds
2	Lead and lead compounds	23	Cobalt dichloride
3	3 Mercury and mercury compounds		Diarsenic trioxide
4	Chromium (VI) compounds	25	Diarsenic pentoxide
5	Polybrominated biphenyls (PBBs)	26	Asbestos
6	Polybrominated diphenylethers (PBDEs)	27	Azocolourants and azodyes which form certain aromatic amines
7	Hexabromocyclododecane (HBCDD)	28	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)
8	Polychlorinated biphenyls (PCBs) and specific substitutes	29	Dimethyl fumarate (DMF)
9	Polychlorinated naphthalenes (PCNs)	30	Polycyclic aromatic hydrocarbons (PAH)
10	Polychlorinated terphenyls (PCTs)	31	Bis (2-ethylhexyl)phthalate (DEHP)
11	Alkanes, C10–13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	32	Dibutyl phthalate (DBP)
12	Tris(2-chloroethyl)phosphate (TCEP)	33	Benzyl butyl phthalate (BBP)
13	Tris(1-chloro-2-propyl)phosphate (TCPP)	34	Diisobutyl phthalate (DIBP)
14	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	35	Diisononyl phthalate (DINP) * Parts and materials for children's toy or child care article that can be placed in a child's mouth
15	Fluorinated greenhouse gases (PFC, SF6, HFC)	36	Di-isodecyl phthalate (DIDP) * Parts and materials for children's toy or child care article that can be placed in a child's mouth
16	Polyvinyl chloride (PVC)and PVC blends	37	Di-n-octyl phthalate (DNOP) * Parts and materials for children's toy or child care article that can be placed in a child's mouth
17	Ozone depleting substances (ODS)	38	Phenol, Isopropylated Phosphate (PIP) (3:1)
18	Perfluorooctane sulfonates (PFOS)	39	Long-chain (C9-C14) perfluorocarboxylic acids (PFCAs) and its salts
19	Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA	40	Pentachlorothiophenol(PCTP)
20	Tri-substituted organostannic compounds	41	Hexachlorobutadiene(HCBD)
21	Dibutyltin (DBT) compounds	42	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)

Related Products

Name	Delivery Number (Delivery number, to Kaga Micro Solution Co.,Ltd.)

For further information about this guideline ,please contact:

Kaga Micro Solution Co.,Ltd. Quality Assurance Div

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