The attachments of SURUGA Production Platform's Green Procurement Guidelines

Issuing Date: 5, Sep. 2006 Revised Date: 4, Jan. 2011

Specified Chemical Substances Table

The survey covers a total 27 substances as specified below prohibited substances and controlled substances. Please note that this list is reviewed on an ongoing basis considering the legal and social requirements, and that specified chemical substances are sometimes added to or removed from this list.

1 Tributyl Tin Oxide (TBTO) Coating, pigments 2 Tributyl Tins (TBTs), Triphenyl Tins (TPTs) Stabilizers, antioxidants, age resisters 3 Polychlorinated Biphenyls (PCBs) Insulating oil, Lubricating oil, fire retardants 4 Polychloronapthalenes (CI=3 or more) Lubricating oil, coatings, resin stabilizers, fire retardants 5 Polychlorinated Terphenyls (PCT) Lubricating oil, coatings, antiseptics 6 Short Chain Chlorinated Paraffins Fire retardants, plasticizers 7 Asbestos Electric insulation, bulking agents, gaskets 8 Azo Dies and Pigments that Generate Specific Amines Pigments and colorants for electric wire coating	Prohibition of intentiona Prohibition of intentiona Prohibition of intentiona	l use and	
3 Polychlorinated Biphenyls (PCBs) Insulating oil, Lubricating oil, fire retardants 4 Polychloronapthalenes (Cl=3 or more) Lubricating oil, coatings, resin stabilizers, fire retardants 5 Polychlorinated Terphenyls (PCT) Lubricating oil, coatings, antiseptics 6 Short Chain Chlorinated Paraffins Fire retardants, plasticizers 7 Asbestos Electric insulation, bulking agents, gaskets Pigments and colorants for electric wire coating Pigments and colorants for electric wire coating	less than 1000ppm Prohibition of intentional Prohibition of intentional	luse	
4 Polychloronapthalenes (Cl=3 or more) Lubricating oil, coatings, resin stabilizers, fire retardants 5 Polychlorinated Terphenyls (PCT) Lubricating oil, coatings, antiseptics 6 Short Chain Chlorinated Paraffins Fire retardants, plasticizers 7 Asbestos Electric insulation, bulking agents, gaskets Pigments and colorants for electric wire coating Pigments and colorants for electric wire coating	Prohibition of intentiona Prohibition of intentiona Prohibition of intentiona Prohibition of intentiona		
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6 Short Chain Chlorinated Paraffins Fire retardants, plasticizers 7 Asbestos Electric insulation, bulking agents, gaskets Pigments and colorants for electric wire coating	Prohibition of intentiona Prohibition of intentiona	Prohibition of intentional use	
7 Asbestos Electric insulation, bulking agents, gaskets Pigments and colorants for electric wire coating	Prohibition of intentiona	Prohibition of intentional use	
Pigments and colorants for electric wire coating		Prohibition of intentional use	
	Prohibition of intentional use and less than 1000ppm		
8 A20 bies and Fightenis that Generate Specific Athines Limited to sections in continuous contact with human body	Prohibition of intentional use and less than 30mg/Kg (30ppm) when used as specific amines		
9 Ozone-Depleting Substances Cooling Medium	Prohibition of intentional use		
8 10 Radioactive Substances Packing, packaging materials	Prohibition of intentional use		
Interpretation Filterboard, wooden products	Aerial concentration of	Aerial concentration of less than 0.1ppm	
Image: Second	Prohibition of intentional use and less than 75 ppm*1		
Lead and Lead Compounds Lead contained in all types of alloys, solder, and all items other than those which are exempted	Less than 1,000 ppm		
Lead contained in steel materials	0.35wt% (3,500 ppm) or less	For packaging materials, less than 100 ppm combined of cadmium, lead, mercury, and hexavalent	
13 Signature 13 Signature 10 Signature	0.4wt% (4,000ppm) or less		
Ead contained in copper alloys	4wt% (40,000ppm) or less		
Solder with a lead content of at least 85%	-	chromium	
13 13 Lead contained in steel materials 13 13 Lead contained in aluminum alloys 14 Mercury and Mercury Compounds Solder with a lead content of at least 85% 14 Mercury and Mercury Compounds Mercury contained in all items aside from small fluorescent light bulbs	Prohibition of intentional use and less than 1,000 ppm		
All hexavalent chromium in chromate treatment Hexavalent Chromium Compounds Hexavalent Chromium and chromium metal and chromin in metal alloys are exempted.			
16 Polybrominated Biphenyls (PBBs) All PBBs including those in fire retardants	Prohibition of intentional use and less than 1,000 ppm		
17 Polybrominated Diphenyl Ethers (PBDEs) All PBDEs including those in fire retardants	Prohibition of intentional use and less than 1,000 ppm		
18 Antimony and Antimony Compounds Pigments, coatings, lead-free solder, etc.			
19 Arsenic and Arsenic Compounds Pigments, coatings, dyes, fire retardant	Prohibition of intentional use and monitoring of the data on substances whose concentration exceeds 1000 ppm		
20 Beryllium and Beryllium Compounds Ceramics, alloys, catalysts, and solder			
21 Bismuth and Bismuth Compounds Glass, lead-free solder, easy-cutting aluminum materials			
22 Nickel and Nickel Compounds Plating, coatings, pigments (alloys are exempted)			
21 Bismuth and Bismuth Compounds Glass, lead-free solder, easy-cutting aluminum materials 22 Nickel and Nickel Compounds Plating, coatings, pigments (alloys are exempte) 23 Selenium and Selenium Compounds Pigments, coatings 24 Other Bromined Flame Retardants (other than PBRs and PBDFs) Fire retardants			
Conter Brownined Flame Retardants (other than PBBs and PBDEs) Fire retardants			
25 Phthalate esters coatings, adhesives			
26 Polyvinyl Chloride (PVC) Resins, cord sheathing, plasticizers			
27 Other chlorinated organic compounds Fire retardants, plasticizers			

*1 Less than 100 ppm under the RoHS Directive 1. The regulation values are not for intentional additives, but rather stipulate the maximum permitted concentrations allowed for the impurities which are contained in homogeneous materials that cannot be mechanically separated.

2. If substances that are not included in this table are regulated by treaties, laws, ordinances, or industry guidelines, and other rules, these regulations shall be observed.

3. For exemption, items are listed in [Exempted Items List].

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Controlled Values of Prohibited Substances

The controlled values of the following prohibited substances are equivalent to concentrations that would not normally be exceeded without intentional uses, and used for controlled purposes in our company and suppliers.

In the event the concentration of a prohibited substance exceeds the controlled value, the supplier is required to reduce the concentration to a level below the controlled value.

Prohibited Substance	Applicable part/material		Controlled Value	
Cadmium	 Resin (including Rubber, film) Coatings, inks, pigments, dyes 		Less than 5ppm (High-precision analysis method) (in state with no volatile elements)	
	Lead-free solder	 Bar solder Wire solder Resin flux cored solder Solder paste Solder ball 	Less than 20ppm (High-precision analysis method)	
		including Rubber, film) gs, inks, pigments, dyes	Less than 100ppm (High-precision analysis method) (with no volatile elements)	
Lead	Lead-free solder	 Bar solder Wire solder Resin flux cored solder Solder paste Solder ball 	Less than 500ppm (High-precision analysis method)	
		 Soldered sections of purchased PC boards Component solder 	Less than 1000ppm (High-precision analysis method)	
	Metal materials other than lead-free solder Glass(limited to uses in lamps)		Less than 500ppm	
	Electroless nickel plating		Less than 800ppm (High-precision analysis method)	
	Lead-free solder in a flow-solder bath		Less than 800ppm (High-precision analysis method)	
Hexavalent Chromium	Chromate treatment parts/materials (based-layer zinc plating)		Less than 100ppm (Simple analysis method)	
PBB PBDE	Resin (including Rubber, film)		Less than 100ppm (High-precision analysis method)	
Lead, mercury, cadmium, hexavalent chromium	Packaging material For each homogenous material comprising packaging (for example, resin, ink, paint)		Less than 100ppm (High-precision analysis method) of total quadruple heavy metals	

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Exempted Items List

- 1) Mercury in compact fluorescent lamps not exceeding 5 mg per lamp.
- 2) Mercury in straight fluorescent lamps for general purposes not exceeding
 - halophosphate 10 mg
 - triphosphate with normal lifetime 5 mg
 - triphosphate with long lifetime 8 mg.
- 3) Mercury in straight fluorescent lamps for special purposes.
- 4) Mercury in other lamps not specifically mentioned in this Annex.
- 5) Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.
- 6) Lead as an alloying element in steel containing up to 0,35 % lead by weight, aluminum containing up to 0,4 % lead by weight and as a copper alloy containing up to 4 % lead by weight.
- Lead in high melting temperature type solders (i.e. tin-lead solder alloys containing 85 % by weight or more lead),
 - lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission as well as network management for telecommunications
 - lead in electronic ceramic parts (e.g. piezoelectronic devices).
- 8) Cadmium and its compounds in electrical contacts and cadmium plating except for applications banned under Directive 91/338/EEC (1) amending Directive 76/769/EEC (2) relating to restrictions on the marketing and use of certain dangerous substances and preparations.
- 9) Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators.
- 10) Lead in lead-bronze bearing shells and bushes.
- 11) Lead used in compliant pin connector systems.
- 12) Lead as a coating material for the thermal conduction module c-ring.
- 13) Lead and cadmium in optical and filter glass.
- 14) Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight.
- 15) Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages.