



Hazardous Substances Classification, Application and Banned Time

Cadmium and its compounds

Level	Targets	Banned time
1	<ul style="list-style-type: none"> - Packaging parts (e.g. handle, cushions, wraps, foil, trays, reels, sticks, magazines, and polyethylene bags) (Refer to page 3“Additional rules for packaging materials”) - The stabilizers, pigments, or dyes used for plastics (including rubber) materials (e.g. labels, cabinets, phonograph records, vinyl ties, the keys of remote controllers, the outer plastic resins of electrical parts, and the insulators of electrical wiring) - Paints, inks - Surface treatment (e.g. plating), coating (Excluding the plating of electrical contacts, for which high reliability is required and which has no substitute materials) - Photographic films - Fluorescent lamps (small-sized ones, straight-tube ones) - The Nickel and NiCd batteries that are received as new parts <p>All other purposes, which are not classified at “Level 3” Typical examples are given below.</p> <ul style="list-style-type: none"> - Switches, relays, breakers, DC motors, and other electrical contact points - Fuse elements of temperature fuses - Glass, and the pigments and dyes of glass paints (paints for glass and the pigments and dyes used for glass) - Solder (whose cadmium concentration is 20 ppm or more) - CdS-photocells and the phosphors contained in fluorescent display devices - Resistor elements (glass frit) <p>Note) Cadmium contained in metal parts (e.g. zinc die-casting) is regarded as an impurity. Therefore, their cadmium concentrations shall be disregarded unless cadmium is intentionally added to them.</p> <ul style="list-style-type: none"> - All the Nickel and NiCd batteries 	Banned immediately
3	<ul style="list-style-type: none"> - The plating of electrical contacts, for which high reliability is required and which has no substitute materials - Optical glass, filter glass - Cadmium in printing inks for the application of enamels on borosilicate glass. -Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers 	



Lead and its compounds

Level	Targets	Banned time
1	<ul style="list-style-type: none"> - Packaging parts (e.g. handle, cushions, wraps, foil, trays, reels, sticks, magazines, and polyethylene bags) (Refer to page 3“Additional rules for packaging materials”) 	Banned immediately
	<ul style="list-style-type: none"> - The paints, pigments, and inks containing lead, which are used for PWBs - The small-size sealed lead-acid batteries that are received as new parts 	
	<ul style="list-style-type: none"> - The batteries (excluding small-size sealed acid-ones) and battery packs whose lead content, in proportion to the total weight of each one, is 0.4% or more 	
	<ul style="list-style-type: none"> - Soldering on the external electrodes and on the external lead wires of parts (e.g. electrical parts, semiconductor devices, and heat sinks). 	
	<ul style="list-style-type: none"> - The stabilizers, pigments, dyes, paints, or inks contained in the plastic (including rubber) materials that are used for an outer and exposed part of the following articles: mice, devices, AC adaptors, connection cords, remote controllers, power supply cords, and the exposed parts of a device. - The paints and inks used for outer and exposed areas of devices. 	
	<p>All other purposes, which are not classified at “Level 3” Typical examples are given below.</p> <ul style="list-style-type: none"> - Among the types of leaded solder, the ones that satisfy both of the following conditions: <ol style="list-style-type: none"> (1) Leaded solder that contain less than 85 wt% of lead; and (2) Leaded solder whose lead concentration is 1000 ppm or more <ul style="list-style-type: none"> - All kinds of alloys whose individual lead/lead compound concentrations exceed the regulated allowable concentration (Refer to the table in “Level 3”) - The stabilizers, pigments, dyes, paints, or inks contained in the plastic (including rubber) materials that are used for articles other than mice, devices, AC adaptors, connection cords, remote controllers, power supply cords, and the exposed parts of a device - All small-size sealed lead-acid batteries - The paints and inks used for areas other than the outer and exposed ones of devices 	



Lead and its compounds

Level	Targets	Banned time										
3	<ul style="list-style-type: none"> - High-melting point solder for internal connections used for parts and devices (the leaded solder whose lead content is at least 85 wt%) - Electronic ceramic parts (e.g. piezoelectric elements, ceramic dielectric materials, magnetic ones [ferrites]) - Optical glass, filter glass - Stabilizers used for electroless gold plating as well as electroless nickel plating and lead contained in additives - Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications, - Lead used in compliant pin connector systems. - Lead as a coating material for the thermal conduction module c-ring. - Lead and cadmium in optical and filter glass. - 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. - Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages.?’ - Glass materials used for electrical parts, cathode-ray tubes, or vacuum fluorescent displays. The above glass materials include adhesives, resistor elements, glass frit, conductive pastes (silver or copper ones), and sealing materials. - The batteries (excluding small-size sealed acid-ones) and battery packs whose lead content, in proportion to the total weight of each one, is less than 0.4% However, the leaded solder and lead which are used for plastics (including rubber), paints, and inks and which are subject to the corresponding regulations above. - Allowable concentration of lead contained in conductive materials of solder for anisotropic conductive film (ACF) and anisotropic conductive paste (ACP) should be less than 1000 ppm. - Allowable concentration of lead as an additive in the following alloys : <table border="1" data-bbox="244 1720 1238 1910" style="margin-left: 20px;"> <thead> <tr> <th>Type of alloy</th> <th>Allowable content of lead</th> </tr> </thead> <tbody> <tr> <td>Steel</td> <td>Less than 0.35 wt%</td> </tr> <tr> <td>Aluminum alloy</td> <td>Less than 0.4 wt%</td> </tr> <tr> <td>Copper alloy (including brass and phosphor bronze)</td> <td>Less than 4 wt%</td> </tr> <tr> <td>Solder</td> <td>Less than 1000 ppm</td> </tr> </tbody> </table> <ul style="list-style-type: none"> - Lead in printing inks for the application of enamels on borosilicate glass. - Lead as impurity in RIG (rare earth iron garnet) Faraday rotators used for fibre optic communications systems.) 	Type of alloy	Allowable content of lead	Steel	Less than 0.35 wt%	Aluminum alloy	Less than 0.4 wt%	Copper alloy (including brass and phosphor bronze)	Less than 4 wt%	Solder	Less than 1000 ppm	
Type of alloy	Allowable content of lead											
Steel	Less than 0.35 wt%											
Aluminum alloy	Less than 0.4 wt%											
Copper alloy (including brass and phosphor bronze)	Less than 4 wt%											
Solder	Less than 1000 ppm											



Lead and its compounds

Level	Targets	Banned time
3	<ul style="list-style-type: none"> - Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with NiFe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead frames. - Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors. - Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes. - Lead oxide in the glass envelope of Black Light Blue (BLB) lamps. - Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers. - Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC. - Mercury free flat panel lamp - Lead oxide in seal frit used for making window assemblies for argon and krypton laser tubes -Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCD). 	



Mercury and its compounds

Level	Targets	Banned time
1	<ul style="list-style-type: none"> - Packaging parts (e.g. handle, cushions, wraps, foil, trays, reels, sticks, magazines, and polyethylene bags) (Refer to page 3“Additional rules for packaging materials”) 	Banned immediately
	<ul style="list-style-type: none"> - Pigments, paints, and inks - Hour meters - The relays, switches, or sensors for which mercury is used in contacts - Mercury or its compounds mixed in plastics 	
	<ul style="list-style-type: none"> - Small-sized fluorescent lamps (e.g. the ones for the back lights of liquid crystal displays): whose mercury content (per lamp) is more than 10 mg - Straight-tube fluorescent lamps: whose mercury content (per lamp) is more than 20 mg 	
	<ul style="list-style-type: none"> - Coin cell batteries whose mercury content, in proportion to the total weight of each one, is 2% or more - The batteries (excluding coin cell ones) and battery packs whose mercury content, in proportion to the total weight of each one, is 0.0005% or more 	
	<ul style="list-style-type: none"> - All other purposes, which are not classified at level 1 or 3 - Small-sized fluorescent lamps: whose mercury content (per lamp) is 5mg or more - Straight-tube fluorescent lamps: whose mercury content (per lamp) is 5mg or more 	
3	<ul style="list-style-type: none"> - Lamps other than small-sized fluorescent lamps and straight-tube fluorescent lamps (e.g. High-pressure mercury lamps) - Small-sized fluorescent lamps: whose mercury content (per lamp) is less than 5mg - Straight-tube fluorescent lamps: whose mercury content (per lamp) is less than 5mg - Coin cell batteries whose mercury content, in proportion to the total weight of each one, is less than 2% - The batteries (excluding coin cell ones) and battery packs whose mercury content, in proportion to the total weight of each one, is less than 0.0005% 	



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Hexavalent chromium and its compounds

Level	Targets	Banned time
1	- Packaging parts (e.g. handle, cushions, wraps, foil, trays, reels, sticks, magazines, and polyethylene bags) (Refer to page 3“Additional rules for packaging materials”)	Banned immediately
	- All purposes (e.g. ones for the articles that contain a hexavalent chromium compound as a component of inks or paints, or of the rust preventive treatment of a plate [screws, steel plates]) (excluding metal chromium and chromium contained in alloys)	

polybrominated biphenyls (PBB)

Level	Targets	Banned time
1	- All purposes (e.g. ones for the flame retardants contained in plastics)	Banned immediately

Polybrominated diphenylethers (PBDE) including decabromodiphenyl ether(Deca BDE)

Level	Targets	Banned time
1	- All other purposes, which are not classified at “Level 2” (e.g. ones for the flame retardants contained in plastics)	Banned immediately
	- The parts made by the molding dies that have been made in December 2002 or earlier (e.g. the cabinets of displays and TV sets) The parts whose molding dies are to be made in and after January 2003 must not contain PBDE.	

Polychlorinated Biphenyls (PCB) ,Polychlorinated terphenyls (PCT)

Level	Targets	Banned time
1	- All purposes (e.g. ones for capacitors, lubricants, insulating oils, transformers containing oil, and flame retardants contained in plastics)	Banned immediately



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Polychlorinated naphthalenes: The targets are PCN, which contain at least 3 chlorine substituents.

Level	Targets	Banned time
1	- All purposes (e.g. ones for lubricants and paints)	Banned immediately

Chlorinated paraffins: Short-chain chlorinated paraffins (C10-13, Cl = 50 wt% or more)

Level	Targets	Banned time
1	- The cabinets and PWBs of products (including accessories)	Banned immediately
3	- All other purposes, which are not classified at "Level 1"	

Organic tin compounds (Tributyl tin compounds, Triphenyl tin compounds)

Level	Targets	Banned time
1	- All purposes (e.g. paints, ink, preservatives, and fungicides)	Banned immediately

Asbestos

Level	Targets	Banned time
1	- All purposes (e.g. insulators, fillers)	Banned immediately

Azo Compounds

Level	Targets	Banned time
1	- The azo compounds that may produce 22 specified amines when they are decomposed on the basis of a test method specified in German Law for Foods and Consumer Products. - Pigments used for the parts of products contacting human skins continuously (e.g. belts, straps, ear phones, headphones, and shoulder pads for bags). Those products are originally designed on the assumption that they contact the skins.	Banned immediately
3	- Parts that do not contact human skins continuously (e.g. cushions, mice, remote controllers, and carrying bags).	



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List of specific amine compounds

CAS No.	Amine compounds
92-67-1	4-aminodiphenyl
92-87-5	benzidine
95-69-2	4-chloro-o-toluidine
91-59-8	2-naphthylamine
97-56-3	o-aminoazotoluene
99-55-8	2-amino-4-nitrotoluene
106-47-8	p-chloroaniline
615-05-4	2,4-diaminoanisole
101-77-9	4,4'-diaminodiphenylmethane
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
120-71-8	p-cresidine
101-14-4	4,4'-methylene-bis-(2-chloroanilene)
101-80-4	4,4'-oxideaniline
139-65-1	4,4'-thiodianiline
95-53-4	o-toluidine
95-80-7	2,4-toluylenediamine
137-17-7	2,4,5-trimethylaniline
90-04-0	o-anisidine
60-09-3	4-aminoazobenzene



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Formaldehyde

Level	Targets	Banned time
1	- The wooden products made from fiberboard, particleboard, or plywood, which are employed in products for import into Europe (e.g. speakers and racks) - The wooden products made from fiberboard, particleboard, or plywood, which are employed in products for destinations other than Europe (e.g. speakers and racks)	Banned immediately

Radioactive materials

Level	Targets	Banned time
1	-All purposes. Restricted to applications where no technically feasible alternative exists.(e.g.detectors)	Banned immediately

Substances depleting the ozone layer

Level	Targets	Banned time
1	-All purposes. The use of ozone depleting substances (CFC,HCFC,methyl bromide, carbon tetrachloride,and 1,1,1-trichloroethane...), “Montereal Protocol on Substances that Deplete the Ozone layer” shall be banned immediately.	Banned immediately

Polyvinyl chloride (PVC) and PVC blends

Level	Targets	Banned time
1	- Substrates for FeliCa contactless IC cards. * For reference, the targets have never contained PVC or PVC blends. - Coating agents and fabrics for the carrying bags, carrying cases, and carrying pouches, which are designed for use with personal computers, digital cameras, camcorders, and portable audio products (excluding those for professional use). - Cable ties made of PVC or PVC blends used for accessories and connecting cords. - Packaging materials to protect, contain, or transport products or supplied accessories (e.g. bags, tapes, cartons, and blister packs) - Heat shrink tubes. - Flexible flat cables(FFC) - Sheets and laminates used for exterior of wooden speakers. - Insulating plates, decorative panels, labels, sheets, and laminates.	Banned immediately



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2	<ul style="list-style-type: none"> - Connection cords for wearable equipment (e.g.cables for ear phones,head phones, and ear microphones) - Coating for insulation and protection used for the inside or outside of devices, insulating tubes, carrying belts, spacers, holders, covers, ducts, etc. - Power supply cords (including ones with some or all of the following:plugs, connectors, or cord bushes) designed for use in Japan, the U.S., and Canada (2P and 3P) - Parts consisting of wires (e.g. connectors with cords) and wires used for internal wiring (e.g. motor leads). - Connection cords (e.g. connection cords for USB or i.LINK, and video cords, AC adaptors secondary leads, flat wires, multi core cables,speaker cords,etc.) - Harnesses and processing wires (e.g. coaxial cables,flat wires,double insulation wires, and shielded wires) - Coating agents and fabrics for the carrying bags, carrying cases, and carrying Pouches, which are designed for exclusive use with professional-electronics products. 	TBD
3	<ul style="list-style-type: none"> - Developing papers. - Insulation caps for capacitors, power supply switches, and fuses. - Trays, magazine sticks, reels, embossed carrier tapes used by parts suppliers for parts packaging. - Suction cups for mounting in-vehicle products. - Wiring clip used for the inside of devices (made of polyvinyl chloride-coated metal) Othe parts except those classified into Levels 1 and Exemption. 	
Exemption	<ul style="list-style-type: none"> - Binder for resins. - Polyvinyl electrical wires for high voltage. - Insulating tapes. - Speaker grilles. - Power supply cords designed for use in countries and regions other than Japan, the U.S., and Canada. - Parts that are not classified into Levels 1 and 3, and are composed of vinyl chloride copolymers or blends of PVC and other polymers. - Transformer leads whose joint is fixed by varnish impregnation. - Curl cords. - Extra fine electrical wires that are AWG (American Wire Gauge) 36 or more. - Professional cables for which general-purpose ones cannot be substituted (e.g. cables for broadcast cameras and microphone cables. 	

EPS

Level	Targets	Banned time
1	-All Packing Material For Korea	Banned immediately
3	-All Uses Except Level 1.	



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Additional rules for packaging materials

Level	Targets	Banned time
1	The articles used for cartons to package products, cartons for returnable boxes, and packaging for part transportation. (e.g. handles, reels, sticks, magazines, bags, staples, sheets, wraps, paints, inks, tapes, labels, cushions, wooden frames, corrugated cardboard, vinyl ties, cushioning materials, and foil or trays)	Banned immediately
Description : Less than 100 ppm is determined as an allowable total-concentration of four heavy metals (mercury, cadmium, hexavalent chromium, and lead). Less than 5 ppm is determined as an allowable cadmium concentration in a plastic (including rubber) part, paints and inks. (Typical plastic parts: handles, cushions, wraps, reels, tapes, sticks, magazines, polyvinyl bags, and foil or trays)		

Illustrative examples of PACKAGING materials

Note: The following lists provide some examples of the products, which we categorize as “packaging” as well as “not packaging,” to serve as a reference. They are not intended to include all products in both categories.

ITEM	NAME	DESCRIPTION
1.	Carton	Including master carton and sub-master carton made from any materials.
2.	Cushion	
3.	Protection bag , protection sheet	Such as made from foamed plastic or nonwoven fabric.
4.	Plastic bag	
5.	Envelope	Such as used for warranty card.
6.	Blister pack	
7.	Film	Including protection films such as used for the LCD displays.
8.	Clamshell	
9.	Separator ,spacer, partition	
10.	Printing ink	Used for packaging
11.	Adhesive tape	Such as used for closing carton or poly bag, or, fixing or protection for removable component.
12.	Staple	
13.	Label	Sticked on the packaging component under control of Sony, such as bar-code label.
14.	Joint	Carton joint
15.	Band	Such as PP band



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16.	Hanging tab	
17.	Carrying handle	Including its related components
18.	Crate	Such as wooden frame
19.	Shrink film	
20.	Bottle	
21.	Sleeve	
22.	Jewel box	Such as packaging for fountain pen
23.	skid	

Nickel and its compounds

Level	Targets	Banned time
1	-The use on external chassis/case parts and the use of frequently handled by the user to prevent the contact with human skin.(Nickel in stainless steel is not restricted)	Banned immediately
3	-Usages which are not classified at Level 1.	TBD

-The allowed concentration is 1000PPM MAX.

Other brominated organic compounds

Level	Targets	Banned time
3	-The flame retardants contained in plastics, or used for PWBs .	TBD

Other chlorinated organic compounds

Level	Targets	Banned time
3	-The plasticizers or flame retardants contained in plastics, and the flame retardants used for PWBs.	TBD

Tributyltin compounds (TBT) and triphenyltin compounds (TPT)

Level	Targets	Banned time
1	-All uses (e.g. paints, inks, preservatives, and fungicides)	Banned immediately



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Applicable to all batteries in commercial distribution

All metals, alloys, inorganic compounds, metal-organic compounds, inorganic salts, organic salts, and Cadmium-, lead-, and mercury-compounds

Level	Targets	Banned time
1	<p>Cd : - Adoption of new NiCd batteries, WHOSE Cadmium content in proportion to the total weight of each one is 0.002% or more ◦</p> <p>Pb : - Batteries (excluding small-size sealed lead-acid batteries) and battery packs whose lead content, in proportion to the total weight of each one, is 0.4% or more ◦</p> <p>- All small-size sealed lead-acid batteries ◦</p>	Banned immediately
	<p>Hg : - Button cell batteries whose mercury content, in proportion to the total weight of each one, is 2% or more ◦</p> <p>- Batteries (excluding button cell batteries) and battery packs whose mercury content, in proportion to the total weight of each one, is 0.0001% or more ◦</p>	
3	<p>Pb : - Batteries (excluding small-size sealed lead-acid batteries) and battery packs whose lead content, in proportion to the total weight of each one, is less than 0.4% ◦</p> <p>*However, the leaded solder and lead used for plastics (including rubber), paints, and inks for battery packs, which are classified into Level 1, are subject to the corresponding regulations ◦</p> <p>Hg : - Button cell batteries whose mercury content, in proportion to the total weight of each one, is less than 2% ◦</p> <p>- Batteries (excluding button cell batteries) and battery packs whose mercury content, in proportion to the total weight of each one, is less than 0.0001% ◦</p>	

Tetrabromo Bisphenol-A

Level	Targets	Banned time
1	-All uses except printed circuit board, wiring and connectors.	Banned immediately
3	- Printed circuit board, wiring and connectors.	

Allowed concentration: 1000ppm MAX.

Substances: Beryllium oxide

Level	Targets	Banned time
1	- All uses except those specified in level 3.	April.1.2008
3	-Specific uses which have no alternative materials.	



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Substances: Beryllium copper

Level	Targets	Banned time
3	- All usec.	

Substances: Specific phthalates (DEHP, DBP, BBP, DINP, DIDP, DNOP, DNHP)

Level	Targets	Banned time
3	- Plasticizer in polyvinyl chloride resin used for cable coating, cord coating, plugs and connectors.	

Table 4.2b List of specific phthalates (phthalic esters)

Abbreviation	CAS NO.	Specific phthalates
DEHP	117-81-7	Di (2-ethylhexyl)phthalate
DBP	84-74-2	Di-n-butyl phthalate
BBP	85-68-7	Butyl benzyl phthalate
DINP	28553-12-0 68515-48-0	Diisononyl phthalate (technical mixture)
DIDP	26761-40-0 68515-49-1	Diisononyl phthalate (technical mixture)
DNOP	117-84-0	Di-n-octyl phthalate
DNHP	84-75-3	Di-n-hexyl phthalate

Substances: Hydrofluorocarbon (HFC), Perfluorocarbon (PFC)

Level	Targets	Banned time
3	- All uses (e.g. refrigerant and insulation).	



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Substances: Perfluorooctane sulfonates (PFOS)

Level	Targets	Banned time
1	<ul style="list-style-type: none"> - Materials whose PFOS concentration is 0.1 wt% or more - Textiles or other coated materials whose amount of PFOS is 1 µg/m² or more of the coated material <p>Typical examples are given below:</p> <ul style="list-style-type: none"> - Electroplating, paint, colorant, dye, materials coated with water repellent agent, oil repellent agent, antifouling agent (e.g. textile, film, paper, leather), fluoropolymer coating, adhesive, and sealant 	April.1.2008
3	<ul style="list-style-type: none"> - Photographic coatings applied to films, papers, or printing plates - Photoresists or anti reflective coatings for photolithography processes 	

Substances: Halogenated diphenyl dethanes

Level	Targets	Banned time
1	<ul style="list-style-type: none"> - All purposes (e.g. ones for capacitors, lubricants, insulating oils, transformers containing oil). 	Banned immediately
<ul style="list-style-type: none"> - Allowable concentration: Less than 1000 ppm. - Suggested standards for measurement: - Use GC/MS to execute the measurement. 		

Substances: Specific benzotriazole

Level	Targets	Banned time
1	Ultraviolet protectants , ultraviolet absorbers	Banned immediately

Substances: restrictions for halogen-free products and components

Level	Targets	Banned time	
1	Bromine (Br)	≤ 900ppm(0.09wt%)	Banned immediately
	Chlorine (Cl)	≤ 900ppm(0.09wt%)	
	Total concentration of bromine(Br)+chlorine(Cl)	≤ 1500ppm(0.15wt%)	
	Suggested standards for measurement: Use IC (Ion Chromatography) EN 14582 : 2007 、 EN 50267-2-1 : 1999 or US EPA SW-846 Method 5050 to execute the measurement. Note : EN 14582 : 2007 Annex A is not acceptable to comply with the pretreatment method.		
	PART NO. Status HR or HS shall meet this requirements.		
3	No halogen-free requirements.		