♦ Table 2 Criteria for substances whose inclusion is banned

- (Note) 1. Since examples of purposes and uses do not cover all cases, please check with the publisher if you are not sure.
 - 2. When there is no indication of exempt in the control level, it means "there is no exempt purposes and uses."
 - 3. See Table 6 for the details of each substance group. As for ozone depleting substances, see Table 7.

	substances, see	Tubic 1	•		
No.	Name of substance	Control level	Examples of purposes and uses	Content threshold	Period when delivery is prohibited
1	Polychlorinated Biphenyls (PCBs)	Banned	Insulating oil, Lubricant, Electric insulating medium, Solvent, Electrolyte	_	Immediately
	(PCBS)	Exempt	When contained as by-product	50ppm	_
2	Polychlorinated Terphenyls	Banned	Insulating oil, Lubricant, Electric insulating medium, Solvent, Electrolyte	_	Immediately
3	Polychloronaphthalenes (Cl=>1)	Banned	Lubricant, Paint, Plastic stabilizer, Electric insulating medium, Flame retardant	_	Immediately
4	Polybrominated Biphenyls (PBBs)	Banned	Flame retardant	1000ppm	Immediately
5	Polybrominated Diphenyl ethers (PBDEs)	Banned	Flame retardant	1000ppm	Immediately
6	Short Chain Chlorinated Paraffins	Banned	PVC plasticizer, Flame retardant	1000ppm	Immediately
7	Asbestos	Banned	Brake lining pad, Insulator, Filler, Rubbing agent, Electric insulating medium, Filler, Pigment/Paint, Talc, Heat insulator	_	Immediately
8	Ozone Depleting	Banned	Coolant, Foaming agent, Digestive, Detergent		Immediately
	Substances	Exempt	When contained as by-product		
			Packaging materials	Table 3	Immediately
9	Cadmium and its compounds	Banned	 Portable battery, Battery Paint, ink Additives such as pigment, dye, stabilizer in resin (including gum) materials (excluding impurities) Material or a part treated with cadmium electroplating or cadmium coating. Parts Electroless plated with nickel using luster, containing cadmium Pigment and dye in glass and paint for glass Silver brazing filler metals containing cadmium Material and parts such as zinc, zinc alloy, and zinc compound, etc. (free-cutting brass rods, rubber belt, etc.) Electric point of contact of DC motor, switch, relay, breaker and the like Fuse element of temperature fuse Fluorescent tubes (small-size fluorescent tubes, straight fluorescent tubes) Nickel/cadmium battery Fluorescent material contained in fluorescent indicator 	20ppm 100ppm	Immediately
10	Hexavalent chromium and its compounds	Banned	Products that come into contact with skin, including leather products and leather parts Packaging materials Paint, ink Materials and parts galvanized and treated with chromate (sheet metal, screw, shafts, bearings, etc. used for general machinery components, purchased electronic components, electric power devices, etc.) Materials and parts such as aluminum, copper alloys and zinc alloys chemically synthesized with chromate (treatment before painting)	weight of leather) Table 3	Immediately

No.	Name of substance	Control level	Examples of purposes and uses	Content threshold	Period when delivery is prohibited
		i	Packaging materials	Table 3	
			Lead in polyvinyl chloride electric wire coating	300ppm [*1]	
		Banned	 Paint, ink Additives such as pigment, dye, stabilizer in resin (including gum) materials Material and parts plated with lead alloy (e.g. piano wire plated with tin) Parts containing lead as lubricant (e.g. Dry bearing) Optical glass, filter glass Various alloys containing lead(However, exempt alloys are excluded.) Solder materials (solders with Pb = 85% or less) Soldered parts and units (Printed Circuit Board, electric power device, motor, clutch, sensor, etc) Lead in server and storage (HDD) FFC connector contact part 	1000ppm	Immediately
11	Lead and lead compounds	Exempt	• Glass fluorescent tube with lead content of no more than 0.2wt% • 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 • Lead as an alloying element in aluminium containing up to 0.4wt % lead by weigt, provided it stems from lead-bearing aluminium scrap recycling • Lead as an alloying element in aluminum for machining purposes with a lead content up to 0,4% by weight • Lead contained in copper alloy (no more than 4.0wt%) • Lead contained in high melting point solder (Lead alloy with 85wt% or more of lead content) • Electric and electronic parts containing lead in glass or ceramic exept dielectric ceramic in condenser (example: piezo element), or electric and electronic parts containing lead in glass or ceramic base compound • Lead in dielectric ceramic in condenser with rated voltage of AC125v or DC 250 or more. • Lead in dielectric ceramic in condenser with rated voltage of AC125 or less than DC250V. However, limited to the spare parts for electrical and electronic products placed on the market prior to January 1, 2013 • Lead contained in white glass used for optical purposes • Lead contained in solder composed of more than two kinds of elements, and is used for joining pin and package of microprocessor, of which lead content is more than 80wt% and les than 85wt%. However, spare parts of products put on market before Jan. 1, 2011 only are applicable • 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.		

^{*1} According to the Proposition65 of the State of California, USA

No.	Name of substance	Control level	Examples of purposes and uses		Content threshold	Period when delivery is prohibited
	Mercury and mercury compounds		Packaging materials		Table 3 5ppm	,
12		Banned	Batteries or accum		[*2]	Immediately
		Ballileu	 Dispensation into pigment, paint, ink and resin Relay, switch and sensor with mercury as contact point 		1000ppm	miniculately
		Exempt	Mercury in straight tube fluorescent lamp with double caps for generic illumination	Standard lifetime lamp using three band fluorescent light with lamp radius of less than 9mm (Example: T2)	4mg	
				Standard lifetime lamp using three band fluorescent light with lamp radius of at least 9mm and no more than 17mm (Example: T5)	3mg	
				Standard lifetime lamp using three band fluorescent light with lamp radius of over 17mm and no more than 28mm (Example: T8)	3.5mg	
				Standard lifetime lamp using three band fluorescent light with radius of over 28mm (Example: T12)	3.5mg	
				Long lifetime (25000 hours) lamp using three band fluorescent light	5mg	
			naorooont lamp for	Short lamp (500mm or less)	3.5mg	
			special uses and external electrode fluorescent lamp (mercury included in CCFL and EEFL)	Medium length lamp (over 500mm and no more than 1500)	5mg	
				Long lamp (over 1500mm)	13mg	
			 High-pressure mercury lamp used as light source of projector 		_	_
	Perfluorooctanesulfonic acid and its salts (PFOS)	Banned	Surface treatment, plating, fabric		1µg/m2 or 1000 ppm	Immediately
			Other than preparations, surface treatment, plating, and fabric		1000 ppm	
13		Exempt	 Photoresists or anti reflective coatings for photolithography processes Photographic coatings applied to films, papers, or printing plates. "Mist suppressants for non-decorative hard chromium (VI) plating and wetting agents for use in controlled electroplating systems" where the amount of PFOS released into the environment is minimized, by fully applying relevant best available techniques. 		_	_
14	Certain Azocolourants and Azodyes that form	Banned	 Fabric and leather parts/products that can come into direct contact with human skin (or mouth orifice) for extended period of time. [*3] 		30ppm	Immediately
	certain amines	Exempt	 Purpose of use oth 	er than the above		
15	Trisubstituted organotin compound	Banned	paint, cooling mediu agent, cleaning ager	d, paint, colorant, antifoulant m, bloating agent, extinguishing nt, stabilization agent, ge inhibitor, antibacterial and	1000ppm [*4]	Immediately

^{*2.} Mercury content threshold in battery is calculated by the proportion of the mass of mercury in the total mass of battery cell (i. e., concentration per one battery cell), in the same way as the definition in the EU Battery Directive.

^{*3.} Only those instructed in drawings or specifications are applicable *4. Concentration of tin mass after conversion into metal

No.	Name of substance	Control level	Examples of purposes and uses	Content threshold	Period when delivery is
16	Dibutyltin compounds	Banned	Stabilizers for vinyl chloride resin , lubricants and catalyst	1000ppm [*4]	prohibited Immediately
17	Dioctyltin compounds	Banned	 RTV-2 moulding kits Two uses of articles made of fabric with an intention to come into contact with skin 	1000ppm [*4]	Immediately
		Exempt	Use other than the above two uses	_	_
18	Dimetylfumarate (dimethyl fumarate	Banned	Antiseptic of leather products	0.1ppm	Immediately
	(DMF))		Desiccant (silica gel pack)		
19	Polycyclic aromatic hydrocarbons (PAHs)	Banned	Rubber or plastic components that come in direct contact with human skin or in the mouth for extended period or short period repeatedly [*3]	1ppm	Immediately
		Exempt	·Applications other than the above	_	_
	Perfluorooctanoic acid (PFOA) and any related substances 1: eight substances regulated by Norwegian law [*5]	Banned	•Textile and coated materials	1µg/m³	Immediately
20			·Articles (other than the above)	1000ppm	immodiatory
	Perfluorooctanoic acid (PFOA) and any related substances 2: Substance regulated by EU REACH regulation [*5]	Banned	Article (except for the following)	PFOA and its sait: 25ppb One or a combinati on of related subtances: 1000ppb	Since 1st May 2020
		Exempt [*7]	 Molded products with photographic coating for film or paper or printing plate Semiconductors and compound semiconductors manufactured by use in photolithographic processes for semiconductors or etching prosses for compound semiconductors. 	l	П
21	Hexabromocyclododecan e (HBCDD)	Banned	Flame retarder for resin Accelerating admixture for adhesive	_	Immediately
22	Biz (2-ethylhexyl) phthalate (DEHP)	Banned	Plasticizer of polyvinyl chloride, Dielectric for condensers	1000ppm [*8]	Immediately
23	Benzyl butyl phthalate (BBP)	Banned	Plasticizer for resin	1000ppm [*8]	Immediately
24	Dibutyl phthalate (DIBP)	Banned	Plasticizer for resin,paint and ink	1000ppm [*8]	Immediately
25	Diisobutyl phthalate (DIBP)	Banned	Plasticizer for paint	1000ppm [*8]	Immediately
	Polymers in which halogens are contained structurally and polymers to which halogenated compounds are added	Banned	Plastic parts for packaging	_	Immediately
		Exempt	Purpose of use other than the above	_	_

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^{*5.} Refer to Appendix 6 for details of target substacces

^{*6.} The threshold value in the molded product is used.

^{*7.} Eight substances regulated by Norwegian law must meet Norwegian law standards even if they are excluded. *8. For prducts that are not subject to the EU RoHS directive (packaging materials, promotional items, etc.), the threshold value is the sum of DEHP, BBP, DBP, and DIBP in the plasticized material.