

# Xinruilian Controlled Hazardous Substances List

Last updated: 2023-1-18

Mgmt level	Substances	Threshold level	Targets	Effective date of the ban on the delivery
	Cadmium and cadmium compounds	<5ppm	Plastics (including synthetic rubbers). Paints. Inks.	Banned
		<70ppm	Solders.	Banned
	Lead and lead compounds	<90ppm	Plastics (including synthetic rubbers). Paints. Inks.	Banned
		<300ppm	Cables/cords	Banned
		<500ppm	Solders.	Banned
		<3500ppm	Alloying element in steel	Banned
		<4000ppm	Alloying element in aluminium	Banned
		<40000ppm	Copper alloy	Banned
		Mercury and mercury compounds	<800ppm	All use
	Chromium (VI) compounds	Contained	plating or conversion coating.	Banned
		<800ppm	All applications other than the above.	Banned
	Polybrominated biphenyls (PBBs)	<800ppm	All use	Banned
	Polybrominated diphenylethers (PBDEs)	<800ppm	All use	Banned
	Bis (2-ethylhexyl) phthalate (DEHP)	<800ppm	Parts and materials in electrical and electronic equipment	Banned
	Dibutyl phthalate (DBP)	<800ppm		
	Benzyl butyl phthalate (BBP)	<800ppm		
	Diisobutyl phthalate (DIBP)	<800ppm		
	Hexabromocyclododecane (HBCDD)	<1000ppm Intentionally added	All use	Banned
	Polychlorinated biphenyls (PCBs) and specific substitutes	Contained; Intentionally added	All use	Banned
	Polychlorinated terphenyls (PCTs)	Contained; Intentionally added	All use	Banned
Polychlorinated naphthalenes (PCNs)	Contained; Intentionally added	All use	Banned	

Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	<1000ppm Intentionally added	All use	Banned
Tris(2-chloroethyl)phosphate (TCEP)	<1000ppm	All use	Banned
Tris(1-chloro-2-propyl)phosphate (TCPP)	<1000ppm	All use	Banned
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	<1000ppm	All use	Banned
Fluorinated greenhouse gases (PFC, SF6, HFC)	Intentionally added	All use	Banned
Ozone depleting substances (ODS)	Intentionally added	All use	Banned
Perfluorooctane sulfonates (PFOS)	<1ug/m2	Textiles or other coated materials.	Banned
	<1000ppm Intentionally added	All except textiles or other coated materials.	Banned
Perfluorohexane-1-sulphonic acid (PFHxS) and its salts	Intentionally added	All use	Banned
Perfluorooctanoic acid (PFOA) and its salts and related substances	<1ug/m2	Coatings applied to textiles, leathers and fabrics. Photographic coatings applied to films, papers, or printing plates.	Banned
	<1000ppm	All applications other than above.	Banned
Tri-substituted organostannic compounds	<1000ppm Intentionally added	All use	Banned
	<1ppm TBT in coating and printing)	Leather products (natural leather, artificial leather, and natural fur occupying more than 60% of the surface of the product)	Banned
Dibutyltin (DBT) compounds	<1000ppm	All use	Banned
Diocetyl tin (DOT) compounds	<1000ppm	Textile and leather articles intended to come into contact with the skin Childcare articles Two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	Banned
Beryllium oxide	<1000ppm	All use	Banned
Cobalt dichloride	<1000ppm Intentionally added	Moisture indicator used for a desiccant agent (e.g. silica gel)	Banned

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Diarsenic trioxide; Diarsenic pentoxide	<1000ppm	Glass for LCD panels (including cover glasses, touchscreens, and backlights)	Banned
Nickel and Nickel compounds	<0.2ug/cm2 /week (release concentration)	Parts and materials for mobile phone, where prolonged skin contact is expected	Banned
Diisononyl phthalate (DINP); Diisodecyl phthalate (DIDP); Di-n-octyl phthalate (DNOP)	<1000ppm (sum)	Parts and materials for children's toy or child care article that can be placed in a child's mouth	Banned
Di-n-hexyl phthalate (DnHP)	<1000ppm Intentionally added	Textile parts/products which come into contact with human skin under normal conditions of use (e.g. straps, carrying bags, carrying cases, pouches etc.)	Banned
Asbestos	Contained Intentionally added	All use	Banned
Formaldehyde	<0.1ppm (chamber method)	The wooden products made from fiberboard, particleboard, or plywood, which are employed in products (e.g. speakers and racks)	Banned
	<30ppm	Textiles	Banned
Azocolourants and azodyes which form certain aromatic amines	<30ppm	Textiles and Leather	Banned
2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	Intentionally added <1000ppm	All use	Banned
Dimethyl fumarate (DMF)	<0.1ppm	All use	Banned
Polycyclic aromatic hydrocarbons (PAH)	<0.5ppm	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	Banned
	<1ppm	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact (e.g. grip, handle), except those for toys or childcare articles	Banned
Brominated flame retardants (BFR) (other	Intentionally	Printed wiring board (PWD) laminates (product specified at SS-00259)	Banned

than PBBs, PBDEs, or HBCDD)	added	Plastic materials except printed wiring board laminates (product specified at SS-00259)	Banned
Halogenated flame retardants	<1000ppm	Plastic enclosure and stand of electronic displays, including televisions, monitors and digital signage displays with a screen area greater than 100 square centimetres, as well as labels, tapes, etc. attached to the plastic enclosures and stands	Banned
	<1000ppm	Plastic enclosure of game device	Banned
Perfluorocarboxylic acids (PFCAs) C9-C14 and its salts and related substances	<25ppb (PFCAs including its salts)	All use	Banned
	<260ppb (PFCAs-related substances)	All use	Banned
Hexachlorobenzene (HCB)	<10ppm Intentionally added	All use	Banned
Pentachlorothiophenol (PCTP)	Intentionally added	All use	Banned
Phenol, Isopropylated, Phosphate (3:1) (PIP (3:1))	Intentionally added	All except Mgmt level II	Banned
2,4,6-Tris(tert-butyl)phenol (TTBP)	Intentionally added	All except articles	Banned
Hexachlorobutadiene (HCBd)	Intentionally added	All use	Banned
Chlorinated phenols (PCP)	<5ppm	Leather products (natural leather, artificial leather, and natural fur occupying more than 60% of the surface of the product)	Banned

<p>Details of Controlled Substances for leather/textile products</p> <p>a. CMR Substances of EU REACH regulation (Entry 72)</p> <p>b. Korea Electrical Appliances and Consumer Products Safety Control Act</p>	Intentionally added	<p>a. Textile parts/products which come into contact with human skin under normal conditions of use (e.g. straps, carrying bags, carrying cases, pouches etc.);</p> <p>b. Leather products (natural leather, artificial leather, and natural fur occupying more than 60% of the surface of the product).</p>	Banned
<p>Long-chain perfluoroalkyl carboxylate (LCPFACs) and perfluoroalkyl sulfonate chemicals</p>	Intentionally added	Parts/products that contain one or more of the applicable LCPFACs in the surface coating	Banned
TSCA Priority chemicals	Intentionally added	All use	Banned
Polyvinyl chloride (PVC)	Intentionally added	<ul style="list-style-type: none"> <li>- Substrates for FeliCa contactless IC cards</li> <li>- Carrying bags, Carrying cases, and Carrying pouches for digital cameras, video camcorders, and portable audio products (excluding those for professional use)</li> <li>- Cable ties used for accessories and connecting cords <ul style="list-style-type: none"> <li>- Packaging components and materials to protect, contain, or transport products or supplied accessories (e.g. bags, adhesive tapes, cartons, and blister packs)</li> </ul> </li> <li>- Heat shrink tubes (excluding those for batteries)</li> <li>- Flexible flat cables (FFC)</li> <li>- Insulating plates, decorative panels, labels (excluding those for batteries)</li> <li>- Sheets, and laminates (including Sheets and laminates used for exterior of wooden speakers)</li> <li>- Suction cups for mounting in-vehicle products</li> </ul>	Banned
<p>Long-chain (C9-C20) perfluorocarboxylic acids (PFCAs) and its salts and related substances</p>	Intentionally added	All use	Banned
Decabromodiphenylethane (DBDPE)	Intentionally added	All use	Banned

1, 6, 7, 8, 9, 14, 15, 16, 17, 17, 18, 18- Dodecachloropentacyclo[1 2. 2. 1. 16, 9. 0 2, 13. 05, 10]octadeca- 7, 15-diene ( "Dechlorane Plus"™)	Intentionally added	All use	Banned
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## Xinruilian Controlled Hazardous Substances List

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II	Phenol, Isopropylated, Phosphate (3:1) (PIP (3:1))	Intentionally added	Adhesives and Sealants	2023. 6. 1



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	Bis (2-ethylhexyl)phthalate (DEHP); Dibutyl phthalate (DBP); Benzyl butyl phthalate (BBP); Diisobutyl phthalate (DIBP)	<1000ppm	Parts and materials in packaging materials and batteries	Undergoing
	Cobalt dichloride	<1000ppm	All applications other than above.	Undergoing
	Diarsenic trioxide; Diarsenic pentoxide	<1000ppm	All applications other than above.	Undergoing
	Nickel and Nickel compounds	Intentionally added	All where prolonged skin contact is expected	Undergoing
	Diisononyl phthalate (DINP); Diisodecyl phthalate (DIDP)	Intentionally added	All use	Undergoing
	Di-n-hexyl phthalate (DnHP)	Intentionally added <1000ppm	All use	Undergoing
	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	<1000ppm	All use	Undergoing
	Polycyclic aromatic hydrocarbons (PAH)	<1000ppm	All use	Undergoing

III	Brominated flame retardants (BFR) (other than PBBs, PBDEs, or HBCDD); Chlorinated flame retardants (CFR) (other than TCEP, TCPP, or TDCPP)	<900ppm	Printed wiring board (PWD) laminates	Undergoing
		<1000ppm	Plastic materials except printed wiring board laminates	Undergoing
	Perchlorates	<0.006ppm	All use	Undergoing
	Radioactive substances	Contained; Intentionally added	All use	Undergoing
	4,4'-Isopropylidenediphenol (bisphenol A)	<1000ppm	All use	Undergoing
	Halogenated flame retardants (other than brominated and chlorinated flame retardants)	Intentionally added	Plastic materials	Undergoing
	Perfluorohexanoic acid (PFHxA) and its salts and related substances	Intentionally added	All use	Undergoing
	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[1.2.2.1.16,9.0.2,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	<1000ppm	All use	Undergoing
	Perfluorocarboxylic acids (PFCAs) C9-C14 and its salts and related substances	<1000ppm	All use	Undergoing
	Per/polyfluoroalkyl substances (PFAS)	Intentionally added	All use	Undergoing
	Substances in candidate list for authorization of EU REACH regulation	<1000ppm	All use	Undergoing
	TSCA Priority chemicals	Intentionally added	All use	Undergoing
	Polyvinyl chloride (PVC)	Intentionally added	All application other than Level I	Undergoing
	Tetrabromobisphenol A (TBBP-A)	<1000ppm Intentionally added	Parts and materials in electrical and electronic equipment	Undergoing
Medium-chain chlorinated paraffins (MCCPs)	<1000ppm Intentionally added			

Remarks

1. 80 ppm (or 0.008 wt%) or more of the total-concentration of four heavy metals (cadmium, lead, mercury, and hexavalent chromium) ( $Cd < 5\text{ppm}$ ) in each part, ink, or paint that constitutes a package is banned, and PVC is not intentionally use.

2. Exemption: Not subject to Level 1, Level 2 and Level 3 because of reasons also being reflected by exemptions from laws.

### 3. Management Levels

Level I: The substances and their applications classified into this Level are those that are banned for the use in parts and materials.

Level II: On the date set in each table, the substances and their applications in the respective tables shall be reclassified into Level 1.

Level III: Technical investigations on substances and their applications are conducted.

Approved:

Reviewed:

drafted:

FMQA64 1.0