KONECRANES RESTRICTED SUBSTANCES LIST, Version March 2025

Konecranes Restricted Substances List defines chemical substances which are not conforming to Konecranes Environmental and Safety Policy Statements. These substances are therefore globally prohibited or restricted to be present in the products Konecranes supplies to the market and in products that Konecranes purchases from its suppliers as well in Konecranes' own production and service processes. The list includes also some requirements for substances used in suppliers' production and packing and for waste treatment of certain substances. Substances on the list are harmful to health and/or the environment. Restrictions are based on legal requirements in EU and in selected other countries.

Suppliers and sub-contractors must comply with the Konecranes Restricted Substances List globally and are held responsible for meeting all national laws and regulations when applicable to the product. Suppliers have to document and declare the presence of hazardous substances in delivered products as mentioned on the list to PSC-Supplier-Substances-Support@konecranes.com.

Konecranes will review this List annually by the end of March. Suppliers are required to follow and fulfill the requirements of the latest list. The list is available at https://www.konecranes.com/suppliers/doing-business-with-konecranes or at the request to PSC-Supplier-Substances-Support@konecranes.com it can be sent to the supplier.

Franz Schulte
Chief Technology Officer

Substances	Konecranes approach, and examples of potential applications where substance could be used	Main risk (1)	Examples of legal references or international agreements (2)
Metals			
Arsenic compounds	**Restricted in all applications. Subject to reporting.** Potential applications: wooden packaging material, non-ferrous alloys, corrosion inhibitor.	Aq, C, T	**REACH** In wood preservation (packaging materials), intentionally added. In textiles 1 mg/kg after extraction **PIC** **US TSCA (4), Proposition 65 List, Minnesota Lists** **Canada SOR/2019-51**
Cadmium compounds	**Restricted in all applications. Subject to reporting. (3)** Potential applications: plating, pigments, anti-corrosion surface treatment, solder, metals, electronics, batteries and accumulators, packaging plastics.	Aq, C, M, R, T	**REACH** In plastic parts, 0.01% (recycled PVC 0.1%). In textiles 1 mg/kg after extraction **RoHS** In electrical and electronic equipment, 0.01% of homogenous material **2006/66/EC (EU) 2023/1542** In batteries and accumulators 0.002% **PPW** In packaging **PIC** **China 2016 RoHS** **China GB/T 26572-2011** In electrical and electronic products 0.01% **China SJ/T 11364-2014** Tag requirements **China SJ/T 11363-2006** In electronic information products 0.01% **China GB 24427-2009** In batteries **China GB 30981-2020** In coating 100 mg/kg **China GB/T 38295-2019** In plastic materials 100 mg/kg **US/CA SB 20/50** Several applications **US TSCA (4), Proposition 65 List, Minnesota Lists** **Canada SOR/2019-51**
Hexavalent chromium compounds	**Restricted in all applications. Subject to reporting. (3)** Potential applications: passivation, chromate treatment, plating, anti-corrosion surface treatment, pigments, paints, dye, plastics, metals, steel parts, solder, electronics, batteries and accumulators, packaging plastics, cement.	Aq, C, M, R, T	**REACH** In cement 0.0002%. In textiles 1 mg/kg after extraction **RoHS** In electrical and electronic equipment, 0.1% of homogenous material **PPW** In packaging **China 2016 RoHS** **China GB/T 26572-2011** In electrical and electronic products 0.1% **China SJ/T 11364-2014** Tag requirements **China SJ/T 11363-2006** In electronic information products 0.1% **China GB 30981-2020** In coating 1000 mg/kg **China GB/T 38295-2019** In plastic materials 1000 mg/kg **US/CA SB 20/50** Several applications **US TSCA (4), Proposition 65 List, Minnesota Lists**
Lead compounds	**Restricted in all applications, except in lead batteries. Subject to reporting (3)** Potential applications: electronics, solder, counterweights, pigments, paints.	Aq, C, R, T	**REACH** Lead carbonates and lead sulphates in paints. In textiles 1 mg/kg after extraction **RoHS** In electrical and electronic equipment, 0.1% of homogenous material **(EU) 2023/1542** In batteries 0.01 % **PPW** In packaging **PIC** **China 2016 RoHS** **China GB/T 26572-2011** In electrical and electronic products 0.1% **China SJ/T 11364-2014** Tag requirements **China SJ/T 11363-2006** In electronic information products 0.1% **China GB 24427-2009** In batteries **China GB 30981-2020** In coating 1000 mg/kg **China GB/T 38295-2019** In plastic materials 1000 mg/kg **US/CA SB 20/50** Several applications **US TSCA (4), Proposition 65 List, Minnesota Lists** **Canada SOR/2019-51**
Mercury compounds	**Prohibited or restricted in all applications. Subject to reporting. (3)** Potential applications: electronics, pigments, anti-corrosion, fluorescent bulbs, switches, impregnation of heavy-duty industrial textiles, batteries, measuring devices. **Prohibited** in acetaldehyde **production** in which mercury or mercury compounds are used as a catalyst. **Prohibited or Restricted in production processes. Subject to reporting**. Potential applications: Chlor-alkali production, Vinyl chloride monomer production, Production of polyurethane using mercury containing catalysts. **Mercury waste** must be managed in an environmentally sound manner as defined In Minamata Convention.	Aq, T	**REACH** In wood preservation (packaging), industrial textiles **RoHS** In electrical and electronic equipment, 0.1% of homogenous material **2006/66/EC and (EU) 2023/1542** In batteries and accumulators 0.0005% **PPW** In packaging **PIC** **Minamata Convention** Prohibitions and restrictions for several products and processes, requirements for waste treatment **China 2016 RoHS** **China GB/T 26572-2011** In electrical and electronic products 0.1% **China SJ/T 11364-2014** Tag requirements **China SJ/T 11363-2006** In electronic information products 0.1% **China GB 24427-2009** In batteries **China GB 24428-2009** In batteries **China GB 30981-2020** In coating 1000 mg/kg **China GB/T 38295-2019** In plastic materials 1000 mg/kg **US/CA SB 20/50** Several applications **US TSCA (4), Proposition 65 List, Minnesota Lists, New York Env Law § 27-0719** **Canada SOR/2019-51**
Ozone depleting substances and Fluorinated greenhouse gases			
Ozone depleting substances (e.g. BCMs, CFCs, HCFCs, halons, HBFCs, methyl bromide, carbon tetrachloride, ozone depleting solvents)	**Prohibited in all applications. Subject to reporting**. Potential applications: coolant in air conditioning system, propellant gas in aerosol cans.	Ozone depleting, GHG	**Montreal Protocol** **(EU) No 590/2024** **US Clean Air Act** **Canada SOR/2016-137 In all applications**

Fluorinated greenhouse gases referred to in Annex I-III e.g. HFC, HCFC, PFC	**Prohibited in certain applications. Subject to reporting.** Potential applications: coolant in air conditioning system	GHG	**Montreal Protocol** **(EU) No 573/2024** Prohibited in accordance with annex IV
Nitrogen trifluoride	**Prohibited in all applications.** Potential applications: refrigeration and air conditioning systems, heat pumps, electrical switchgear, fire protection, foam production and as aerosols and solvents	Ozone depleting, GHG	**(EU) No 573/2024** **CH SR 814.81** (Annex I, Annex II) Special permit possible.
Brominated and other flame retardants (5)			
Polybrominated biphenyls (PBBs), polybrominated diphenylethers (PBDEs), hexabromocyclododecane (HBCDD)	**Restricted in all applications. Subject to reporting. (3)** Potential applications: flame retardant, plastic parts, textiles, electronics.	PBT, C, M, R, ED	**REACH** In textiles **POP** In all applications PBDEs (tetra-, penta-, hexa-, hepta- and decaBDE) 500 mg/kg. Exemptions to decaBDE in motor vehicles: powertrain, under-hood and fuel system applications, and pyrotechnical devices and applications affected by pyrotechnical devices. HexaBB prohibited in all applications. HBCDD 75 mg/kg (0,0075%) in certain applications **PIC** Certain PBBs, PBDEs **RoHS** In electrical and electronic equipment, 0.1% of homogenous material **China 2016 RoHS** **China GB/T 26572-2011 In electrical and electronic products 0.1%** **China SJ/T 11364-2014** Tag requirements **China SJ/T 11363-2006** In electronic information products 0.1% **US TSCA** (CFR Title 40 Part 721) **(4), Proposition 65 List** (PBBs, pentaBDE), **Minnesota Lists** **Japan CSCL**
Decabromodiphenyl ethane (DBDPE)	**Restricted for import. Subject to reporting.** Potential applications: Flame retardant in plastics, rubber, electrical equipment, adhesives and sealants.	PBT	**Canada CEPA 1999** (Ministerial Condition No. 15193) **REACH** (Under assessment)
Phthalates			
Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP)	**Restricted in all applications. Subject to reporting. (3)** Potential applications: plastic parts, electronics, rubber components in engine systems.	C, T, Te	**RoHS** In electrical and electronic equipment, 0.1% of homogenous material **PIC** BBP, DIBP **US TSCA (4), Proposition 65 List** (DEHP, BBP, DBP)**, Minnesota Lists** **Canada NPRI** (DEHP, BBP, DBP) **China 2016 RoHS**
Diisopentyl phthalate, Bis(2-methoxyethyl) phthalate, Dipentyl phthalate, N-pentyl-isopentyl phthalate	**Prohibited in all applications**	R	**REACH** Prohibited also in spare parts from March 2023 onwards **US TSCA (4)** ((Bis(2-methoxyethyl) phthalate, Dipentylphthalate) **Minnesota Lists** (Diisopentylphthalate, Bis(2-methoxyethyl) phthalate, Dipentylphthalate)
PCB and replacements (5)			
Polychlorinated biphenyls (PCBs), Polychlorinated triphenyls/terphenyls (PCTs)	**Prohibited in all applications.** Potential applications: capacitors, insulators, resistors and transformers, flame retardants for plastics.	Aq, PBT/vPvB, POP	**REACH** In all applications as substance, (in mixtures and equipment 0.005%) (PCTs) **POP** In all applications (equipment 0.005% or 0.05 dm^3) (PCBs) **Rotterdam Convention/PIC** **US TSCA (4), Proposition 65 List** (PCBs), **Minnesota Lists** **Canada SOR/2008-273** Certain PCB uses allowed, **Canada SOR/2012-285** **Japan CSCL**
Phenols (5)			
Pentachlorophenol (PCP), its salts and ethers	**Restricted in all applications. Subject to reporting.** Potential applications: impregnation of wood and textile.	Aq, T, ED	**POP** In all applications, 0.0005% **PIC** **US TSCA (4), Proposition 65 List, Minnesota Lists** **Japan CSCL**
4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated 4-Nonylphenol, branched and linear, ethoxylated	**Prohibited in all applications** Potential applications: adhesives and sealants, coating products	Aq, ED	**REACH** Prohibited also in spare parts from March 2023 onwards **PIC** (nonylphenols) **US TSCA (4), Minnesota Lists**
Isopropylated phenol phosphate (PIP 3:1)	**Restricted in all applications. Subject to reporting.** Potential applications: textiles, rubber, polyurethane foam, cutting oils, electronic equipment	PBT	**REACH** (under assessment) **US TSCA** Certain uses allowed **(4), Minnesota Lists**
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	**Restricted in all applications. Subject to reporting.** Potential applications: oil or lubricant additive	PBT	**REACH Candidate List of Substances of Very High Concern** **US TSCA** In oils and lubricants 0.3% **(4), Minnesota Lists** **Canada SOR/2019-51**
Pentachlorothiophenol (PCTP) (Pentachlorobenzenethiol)	**Restricted in all applications. Subject to reporting.** Potential applications: rubber	Aq, R, T	**REACH** **US TSCA** In all applications, 1% **(4), Minnesota Lists**
Perfluoroalkylated substances (PFAS) (5)			
Perfluorooctane sulfonic acid (PFOS) and its derivatives	**Prohibited in all applications.** Potential applications: hydraulic fluids, fire fighting foams, protective coating, textiles, upholstery	C, R, PBT, POP	**POP** **PIC** **US TSCA (4), Proposition 65 List, Minnesota Lists** **Canada SOR/2012-285 Certain uses allowed** **Japan CSCL**
Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	**Prohibited in all applications.** Potential applications: hydraulic fluids, fire fighting foams, protective coating, textiles, upholstery	C, R, PBT, POP	**POP** **PIC** **US TSCA (4), Proposition 65 List, Minnesota Lists** **Canada SOR/2012-285 Certain uses allowed** **Japan CSCL**

Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds	**Prohibited in all applications.** Potential applications: fire-fighting foams, metal plating, textiles, leather and upholstery, coatings, within the manufacturing of electronics and semiconductors.	vPvB, POP	**POP** In all applications **REACH** **PIC** **Japan CSCL**
Other Chlorinated compounds (5)			
Alkanes C_{10}-C_{13} (short-chain chlorinated paraffins) (C_{10}-C_{13} chloro alkanes)	**Restricted in all applications. Subject to reporting.** Potential applications: fuels	C, PBT, POP	**POP** In articles 0.15% **US TSCA (4), Minnesota Lists** **Canada SOR/2012-285** **Japan CSCL**
Hexachlorobutadiene (HCBD)	**Prohibited in all applications** Potential applications: Rubber, car and other tyres	Aq, C, R, POP	**POP** **US TSCA (4), Proposition 65 List, Minnesota Lists** **Canada SOR/2012-285**
Polychlorinated naphthalenes (PCNs)	**Prohibited in all applications** Potential applications: electrical devices, impregnated wood, waterproof paper/textiles	POP	**POP** **US TSCA** (In US TSCA work plan), **Minnesota Lists** **Canada SOR/2012-285** **Japan CSCL**
PeCB or pentachlorobenzene	**Prohibited in all applications** Potential applications: flame retardants, component of PCB	POP	**REACH** **PIC** **POP**
HCB or hexachlorobenzene	**Prohibited in all applications** Potential applications: wood preservative, starting material in the manufacture of various chemicals. Papermaking, solvent in the paint and plastics and other chemical, textile and metal industries	C POP	**REACH** **PIC** **POP** **Japan CSCL**
Benzidine dihydrochloride	**Prohibited in all applications** Potential applications: manufacture of dyes and pigments	C	**REACH** (Annex XVII) **Canada SOR/2012-285**
Trichloroethylene	**Prohibited in certain applications** Potential applications: lubricants, adhesives and sealants, paints and coating	Aq, C, M, R, T	**US TSCA** **REACH Annex XIV and Candidate List of Substances of Very High Concern**
Perchloroethylene	**Restricted** Potential applications: lubricating oils	C, R, T	**US TSCA**
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	**Prohibition.** Potential applications: flame retardant, lubricating oils, silicon rubber	PBT	**POP** **Japan CSCL**
Others			
Asbestos compounds and minerals, all members	**Prohibited in all applications.** Potential applications: brake lining pad.	C, M, R	**REACH** All applications **PIC** **US TSCA (4), Proposition 65 List, Minnesota Lists** **Canada NPRI, Canada SOR/2018-196**
Radioactive substances	**Restricted & prohibited in all applications. Subject to reporting.** Potential applications: Optical properties (thorium), sensors (americium).	M	**Council Directive 2013/59/EURATOM** **US NRC** Certain uses allowed **Canada Nuclear Safety and Control Act** Certain uses allowed
Formaldehyde	**Restricted Subject to reporting.** Potential applications: in packaging as wood preservation, textiles.	Allergenic, T, C	**REACH** **US/CA CARB Rule, US TSCA (US CFR Title 40 Part 770/USC Title 15, Chapter 53, Subchapter VI, §2697) (4), Proposition 65 List, Minnesota Lists** **Canada NPRI**
Benzene	**Restricted in all applications. Subject to reporting.** Potential applications: Solvent, fuel component, coatings, intermediate substance in chemical industry, impurity.	C	**REACH** In all applications, 0.1%. In textiles 5 mg/kg in homogenous material **PIC** **China GB 30981-2020** In coating 0.3% **US TSCA (4), Proposition 65 List, Minnesota Lists** **Canada NPRI**
Polycyclic-aromatic hydrocarbons (PAHs)	**Restricted in all applications. Subject to reporting.** Potential applications: Rubber, car and other tyres. Extender oil in elastomer. Lubricant (grease). Coatings.	C, M, R	**REACH** In tyres. In textiles 1 mg/kg in homogenous material **China GB 30981-2020** In coating 500 mg/kg **US TSCA (4), Proposition 65 List, Minnesota Lists** **Canada NPRI**
Creosotes	**Restricted in all applications. Subject to reporting.** Potential applications: Wooden packaging material.	C, M, R	**REACH** In wood (packaging) preservation, intentionally added **US TSCA (4), Proposition 65 List, Minnesota Lists**
1-methyl-2-pyrrolidone (NMP)	**Restricted in all applications. Subject to reporting.** Potential applications: metal coated plastics, writes, textiles	R	**REACH** 0.3% (worker exposure limits apply at higher levels), coating wires exempted till May 2024), in textiles 3 000 mg/kg in homogenous material **US TSCA (4), Proposition 65 List, Minnesota Lists** **Canada NPRI**
N,N'-Ditolyl-p-phenylenediamine, N-Tolyl-N'-xylyl-p-phenylenediamine, or N,N'-Dixylyl-p-phenylenediamine	**Prohibtion.** Potential applications: polymers, rubber	PBT	**Japan CSCL**
2,4,6-tri-tert-butylphenol	**Prohibtion.** Potential applications: oil and lubricant additive	PBT	**Japan CSCL** **REACH Candidate List of Substances of Very High Concern**
2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol (UV-320)	**Prohibtion.** Potential applications: paints, adhesive, flame retardant	PBT	**Japan CSCL** **REACH Annex XIV and Candidate List of Substances of Very High Concern**
2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (also known as UV-328)	**Prohibition.** Potential applications: lubricating oils, adhesive, UV absorbers	PBT	**POP** **Japan CSCL** **REACH Annex XIV and Candidate List of Substances of Very High Concern**
Substances Restricted under REACH (Annex XVII)			
Substances restricted under REACH (Annex XVII)	**Prohibited or restricted in applications as defined in REACH. Subject to reporting.** Supplier must always check the current list from European Chemicals Agency, **https://echa.europa.eu/substances-restricted-under-reach**	Unacceptably harmful to health or environment	**REACH.** Concentrations vary for different substances. Some Annex XVII substances are already covered in other parts of this Konecranes Restricted Substances List.

REACH SVHC Candidate List substances			
REACH Candidate list of Substances of Very High Concern (SVHC) for authorization	**Restricted in all applications. Subject to reporting.** Declare concentration if used. Potential applications: For example flame retardants, corrosion inhibitors, plasticizers, wood preservation, metal working fluids, pigments/paints, electronics. Supplier must always check the current list from European Chemicals Agency, http://echa.europa.eu/chem_data/candidate_list_table_en.asp	C, M, R, PBT, vPvB	**REACH** In all applications, e.g. presence must be declared if concentration in articles >0,1% w/w
Substances subject to Authorisation under REACH (Annex XIV)			
List of substances included in Annex XIV of REACH ("Authorisation List")	**The use of the substances as such or in mixtures requires authorization after the sunset date** Declare the presence of the substance, if present in chemical. Supplier must ensure that the applicable uses have been authorized.	C, M, R, PBT, vPvB Equivalente hazardous properties	**REACH**

EXPLANATIONS

(1) MAIN RISK
Aq = Harmful to aquatic environment
C = Carcinogenic
ED = Endocrine Disruptor (interferes hormonal systems)
GHG = Green House Gas
M = Mutagenic
PBT = Persistant, Bioaccumulative, Toxic
POP = Persistant Organic Pollutant
R = Reprotoxic
Te = Teratogenic
T =Toxic
vPvB = very Persistant, very Bioaccumulative

(2) EXAMPLES OF LEGAL REFERENCES OR INTERNATIONAL AGREEMENTS
EU legislation:
(EU) No 590/2024= Regulation on substances that deplete the ozone layer
2006/66/EC and (EU) 2023/1542 = Directive on batteries and accumulators and Regulation (EU) 2023/1542 concerning batteries and waste batteries
Council Directive 2013/59/EURATOM
(EU) No 573/2024= Regulation on Fluorinated Greenhouse Gases
PIC = Regulation concerning the export and import of hazardous chemicals (EU 649/2012)
POP = Regulation on Persistent Organic Pollutants (EU 2019/1021)
PPW = Directive on Packaging and Packaging Waste (94/62/EEC) and Regulation (EU) 2025/40 packaging and packaging waste
REACH = Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (EC 1907/2006). Note, references to REACH in this document includes also the requirements of REACH applicable in the United Kingdom ("UK REACH").
RoHS = Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (2011/65/EU)

Others:
International:
Minamata Convention = International convention on mercury
Montreal Protocol = International treaty for the protection of the ozone layer
POP Convention = Stockholm Convention on Persistent Organic Pollutants
Rotterdam Convention = The Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade
USA:
New York Env Law § 27-0719 is law about battery management and disposal (The Laws of New York, Environmental Conservation ENV, Article 27, Title 7, Section 27-0719)
US/CA SB 20/50 = California's Restriction on the Use of Certain Hazardous Substances in Some Electronic Devices (California RoHS Law, Department of Toxic Substances Control (DTSC), State of California, USA) [Senate Bill No. 20 & Senate Bill No. 50]
US Clean Air Act is for protecting ozone layer and regulating air emissions in USA
US TSCA = Toxic Substances Control Act (USA)
US NRC = United States Nuclear Regulatory Commission
US CFR = US Code of Federal Regulations
USC = United States Code
California Proposition 65 = Safe Drinking Water and Toxic Enforcement Act (California Office of Environmental Health Hazard Assessment (OEHHA), State of California, USA)
Proposition 65 List = List of chemicals known to the California state to cause cancer or reproductive toxicity
Minnesota Lists = Chemicals of High Concern List and Priority Chemicals List published by Minnesota Department of Health (MDH)
Canada:
Canada SOR/2012-285 = Canadian Prohibition of Certain Toxic Substances Regulations, 2012
Canada NPRI = Canadian National Pollutant Release Inventory (NPRI)
Canada SOR/2018-196 = Canadian Prohibition of Asbestos and Products Containing Asbestos Regulations, 2018
Canada SOR/2008-273 = PCB Regulations, 2008
Canada SOR/2019-51 = Environmental Emergency Regulations, 2019
Canada SOR/2016-137 = Ozone-depleting Substances and Halocarbon Alternatives Regulations
Canada Nuclear Safety and Control Act
Canada CEPA 1999 = Canadian Environmental Protection Act, 1999
China:
China 2016 RoHS = Decree No. 32 of the Ministry of Industry and Information Technology, the National Development and Reform Commission, the Ministry of Science and Technology, the Ministry of Finance, the Ministry of Environmental Protection, the Ministry of Commerce, the General Administration of Customs and the General Administration of Quality Supervision, Inspection and Quarantine: Administrative Measures on the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products
China GB/T 26572-2011 = Requirements of Concentration Limits for Certain Restricted Substances in Electrical and Electronic Products
China SJ/T 11364-2014 = The Tag Requirements relating to Restriction of the Use of Hazardous Substances in Electrical and Electronic Products
China SJ/T 11363-2006 = Restriction Requirements of Poisonous or Hazardous Substances in Electronic Information Products
China GB 24427-2009 = Limitation of Mercury, Cadmium and Lead Contents for Alkaline and Non-Alkaline Zinc Manganese Dioxide Batteries
China GB 24428-2009 = Limitation of Mercury Content for Zinc Silver Oxide, Zinc Oxygen and Zinc Manganese Dioxide Button Batteries

China GB 30981-2020 = Limitation of Hazardous Substances of Industrial Protective Coatings
China GB/T 38295-2019 = Limitation for Lead, Cadmium, Hexavalent Chromium, Mercury in Plastic Materials
Switzerland:
CH SR 814.81 = Ordinance of 18 May 2005 on the Reduction of Risks relating to the Use of Certain Particularly Dangerous Substances, Preparations and Articles (Chemical Risk Reduction Ordinance, ORRChem)
Japan:
Japan CSCL = Japan Chemical Substances Control Law (1974)

(3) Maximum concentration values tolerated and applications exempted from the restriction similarly as in EU RoHS Directive's appendix II and appendix III, and for batteries and accumulators as in EU Directive 2006/66/EC and for packaging's as in EU Directive 94/62/EEC.

(4) Pre-manufacture notice (PMN) or Significant New Use Notice (SNUN) to United States Environmental Protection Agency (US EPA) may apply.

(5) For all Persistent Organic Pollutants (POP): A) There is a prohibition of the production and use of chemicals pursuant to Article 3 (1) (a) 2) and Annex A of the Stockholm Convention of 23rd May 2001 on Persistent Organic Pollutants (POP Convention), including later amendments. B) There is a prohibition of handling, collection, storage and disposal of waste which is not environmentally sound in accordance with Art. 6 (1) d (i) and (ii) of the POP Convention. In EU POP Convention is implemented by Regulation on Persistent Organic Pollutants (EU 2019/1021).

Sources and search tools, incl.:
European Chemicals Agency (ECHA) (Search for Chemicals, Authorisation List, Candidate List of SVHC, Restriction List):
https://echa.europa.eu/authorisation-list
https://echa.europa.eu/candidate-list-table
https://echa.europa.eu/substances-restricted-under-reach
EUR-Lex (Access to European Union Law): https://eur-lex.europa.eu/homepage.html?locale=en
United States Environmental Protection Agency (US EPA) (Chemistry Dashboard (CompTox Chemicals Dashboard): https://comptox.epa.gov/dashboard
US e-CFR (US Electronic Code of Federal Regulations): https://www.ecfr.gov/cgi-bin/ECFR?page=browse
California Office of Environmental Health Hazard Assessment (OEHHA) (Proposition 65 List, Searchable Proposition 65 Chemical Database):
https://oehha.ca.gov/proposition-65/proposition-65-list
https://oehha.ca.gov/proposition-65/chemicals
The New York State Senate (Browse the Laws of New York): https://www.nysenate.gov/legislation/laws/CONSOLIDATED
Canada Environment and Natural Resources (Substances Search): https://pollution-waste.canada.ca/substances-search/Substance?lang=en

REVISION HISTORY

Issue	Date	Description of the most relevant changes
2.6	18.3.2025	Addition of revision history Reference to China 2016 RoHS added for phthalates Substances regulated by Japan CSCL added Dechlorane Plus and UV-328 added US TSCA Trichloroethylene and Perchloroethylene added PIC reference added to PFHxS Add reference to new Packaging and Packaging Waste Regulation (EU) 2025/40 Removed reference to repealed EU 517/2014 and EC 1005/2009 Fluorinated greenhouse gases separated into own entry