



FUJIFILM Business Innovation Green Procurement Standards

Ver. 2.0



**FUJIFILM group
Green Policy**

February 2023

**FUJIFILM Business Innovation Corp.
Environment & Product Safety**

Revision History

Revision No.	Details	Date of Revision
Ver.1.0	Issued by changing the company name	April, 2021
Ver.2.0	<ul style="list-style-type: none"> - Added the following 10 substance groups to the list of restricted chemical substances - C9-C14 PFCA and its salts and related substances - PFHxS and its salts and related substances - Long-chain perfluoroalkylcarboxylic acid (LCPFAC) and perfluoroalkyl sulfonic acid compounds - Fluorinated greenhouse gases (PFC, SF6, HFC) - Mineral oil aromatic hydrocarbons (MOAH) consisting of 1~7 aromatic rings - 16 to 35 carbon atoms saturated hydrocarbons (MOSH) - Tris(isopropylphenyl) phosphate (PIP(3:1)) - Pentachlorothiophenol (PCTP) - Revised prohibition threshold values as stipulated by laws and regulations - Short chain chloride paraffin (C10-13) - Polychlorinated terphenyl chloride - Dimethyl fumarate - Trisubstituted organotin compounds - Dibutyltin compounds (DBT), dioctyltin compounds (DOT) - Cadmium, mercury (only batteries changed) - Revised in line with FUJIFILM's Green Procurement Standard Form - Modify the contents of a request to a business partner - Deletion of references to recycling policies and details of analysis methods - Consolidated tables of laws and regulations related to environmentally managed substances into Appendix 1 - Organized the list of exempted applications of prohibited substances - Deleted the lists of controlled substances, regulated substances in manufacturing process, and exemplary chemical substances 	February, 2023

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1. Introduction

FUJIFILM Corporation and its affiliates (hereinafter, FUJIFILM) are working hard to reduce its environmental impact and to improve the safety of its products and chemical substances by promoting countermeasures against global warming, managing products containing chemical substances and reuse / recycling of resources. FUJIFILM considers meeting these societal demands as an important initiative. We do not regard it simply as a matter of compliance with environmental regulations, but set our own standards for the entire product lifecycle from procurement of resources and components to the manufacture, sale, use, and disposal. The standards for managing chemical substances in products procured by FUJIFILM are prescribed in “FUJIFILM Green Procurement Standards.”

2. Objective of the FUJIFILM Green Procurement Standards

The FUJIFILM Green Procurement Standards prescribe the requirements and guidelines regarding the procurement of supplied goods.

3. Scope of the FUJIFILM Green Procurement Standards

The FUJIFILM Green Procurement Standards apply to chemical substances, chemical preparations, components, products, packaging materials, and other auxiliary materials supplied to FUJIFILM for products sold and supplied to customers. However, the above does not include toners, carriers, photoreceptor materials, or ink.

4. Green Procurement Standards

Compliance with all of the following requirements are mandatory:

- (1) Supplied goods must not contain any restricted chemical substances^{*1}.
Specific regulated threshold figures have to be met. ^{*2}
- (2) Accurate information about chemical contents must be provided so that FUJIFILM can ensure compliance of its products.
- (3) Chemical substances in supplied goods must be managed in accordance with the “Guidelines for the Management of Chemical Substances in Products,” or other comparable industrial standards.

^{*1, *2} Restricted chemical substances and their thresholds are provided in Table 1.

5. Requests to Suppliers

Cooperation is sought with respect to each of the following points to promote Green Procurement and ensure FUJIFILM products comply with worldwide regulations:

- (1) Compliance with the Green Procurement Standards for supplied goods
The supply of chemical substances, chemical preparations, components, homogeneous materials, products, packaging materials, and other auxiliary materials must comply with Standards for Management of Restricted Chemical Substances shown in Table 1.
In order to ensure that your products do not use any of the restricted chemical substances listed in our Green Procurement Standards, you will be requested by our Procurement Department to submit a Declaration of Compliance with Green Procurement Standards for all articles by product. You will be informed of the submission method and timing by our Procurement Department.
- (2) Information to be provided in accordance with the Green Procurement Standards
Product content information for chemical substances, chemical preparations, components, homogeneous materials, products, packaging materials, and other auxiliary materials supplied to

FUJIFILM must be provided in the JAMP endorsed Information – Communication Sheets (chemSHERPA-AI or chemSHERPA-CI) or an alternative format as specified by FUJIFILM requesting the data indicating that the materials supplied to FUJIFILM are in compliance with the Green Procurement Standards.

In addition, when there are changes in the information about chemical substances in the supplied goods and related laws and regulations, the suppliers must provide the updated information to FUJIFILM using prescribed format immediately.

(3) Management of Supplied Goods in accordance with the Green Procurement Standards

- ① Chemical substances, chemical preparations, components, homogeneous materials, products, packaging materials, and other auxiliary materials supplied to FUJIFILM must be in accordance with the “Guidelines for the Management of Chemical Substances in Products” or other comparable industrial standards. FUJIFILM requests that primary suppliers be responsible for managing and instructing secondary and subsequent suppliers to comply with the Standards as well.
- ② To promptly achieve prohibition of the use of hazardous chemical substances, FUJIFILM requests that suppliers update their ISO 14001 certification or other environmental management certification, as well as ISO 9001 quality management certification.
- ③ FUJIFILM may conduct an audit based on the “Guidelines for the Management of Chemical Substances in Products” on a supplier’s chemical substance management system.

(4) Other

From time to time, there may be requests to provide regulatory information for FUJIFILM’s products to comply with specific regulations and or in response to FUJIFILM’s customer requests. In such cases, the supplier must provide the following information on specific chemical substances, substance groups, regulations, and standards:

- ① Certificate of compliance with specified individual regulations
- ② Purchase specification or agreement including compliance with regulations.
- ③ Certificate for individual requirements of the relevant country’s environmental label
Example: Diisodecyl phthalate (DIDP), diisononyl phthalate (DINP), di-n-octyl phthalate (DNOP), and 16 types of polycyclic aromatic hydrocarbons (PAHs), etc. for China CEC environmental labeling certification
- ④ Submission of chemical substance analysis data
FUJIFILM conducts RoHS tests based on IEC 62321 prior to production. If a concern is discovered during the tests, FUJIFILM will request for a submission of analysis data by part or substance in order to check for compliance with the Green Procurement Standards in terms of prohibited substances. FUJIFILM will request for submission individually together with the analysis method.

6. Definitions of Terms

(1) Restricted chemical substances

- Chemicals prohibited or restricted by law from being used in chemical substances, chemical preparations, components, homogeneous materials, products, packaging materials, and other auxiliary materials.
- Chemicals prohibited or restricted by FUJIFILM’s corporate policies from being used in chemical substances, chemical preparations, components, homogeneous materials, products, packaging materials, and other auxiliary materials that are supplied.

(2) Chemical substances to be controlled

In compliance with chemSHERPA declarable substances.

Concentration of the chemical substances to be controlled contained in all goods supplied to FUJIFILM shall be accurately ascertained and managed.

(3) JAMP

Joint Article Management Promotion-consortium (JAMP). An initiative to promote cross-industrial

activities in Japan contributing to the establishment and dissemination of effective and workable mechanisms to facilitate disclosure/exchange of information on chemical substances (components, homogeneous materials, products, packaging materials, and other auxiliary materials) contained in Articles across the supply chain.

JAMP/chemSHERPA website: <https://chemsherpa.net/english>

(4) Alternate format

Format in accordance with commonly used industrial standard comparable to the JAMP formats used for collecting product data. The alternate format is typically specified by FUJIFILM.

(5) chemSHERPA Declarable Substances

The Declarable Substances are chemical substances subject to transfer of information under JAMP protocol. These are substances to be controlled for the prevention of health hazards and environmental conservation, which are selected by all parties involved in the entire supply chain. Refer to Table 5.

The updated contents of the declarable substances are available on the JAMP/chemSHERPA website.

(6) Information - Communication Sheets

Information - Communication sheets for the disclosure and transfer of information on the chemical substances subject to reporting and contained in chemical substances, preparations, and articles. The chemical substances subject to notification are specified as JAMP declarable substances or chemSHERPA declarable substances.

Sheet used for chemical substances and preparations.	chemSHERPA-CI
Sheet used for articles (components, homogeneous materials, products, packaging materials, and other auxiliary materials).	chemSHERPA-AI

(7) Guidelines for the Management of Chemical Substances in Products

The guidelines issued by JAMP. The guidelines indicate the requirements for the standardized management of contained substances to ensure accurate and efficient management. The guidelines focus primarily on the management of contained chemical substances in the process of converting substances/preparations to articles to ensure that the chemical substances contained in products are managed efficiently and rationally throughout the entire supply chain. The guidelines also cover management of the processes before and after the core process.

The guideline is available on the JAMP website.

(8) Certification of compliance with specified individual regulations

Documents issued by suppliers to certify that chemical substances, chemical preparations, components, homogeneous materials, products, packaging materials, and other auxiliary materials supplied to FUJIFILM comply the specific regulations.

Table 1. Standards for management of the restricted chemical substances

No.	Substance name	Main Regulations	Goods /Parts applied	Thresholds	Exemption/Purposes
1	Asbestos	EU REACH AnnexXVII	All	None(Prohibited)	None
2	Azo colorants	EU REACH AnnexXVII	Textile and other leather articles which may come into direct and prolonged contact with the human skin or oral cavity	Equal to or less than 30 ppm	Azo colorants that generates no specified amines when it is decomposed.
3	Short-chained chlorinated paraffin (C10-13)	EU POPs Regulation	All	Less than 1500 ppm	None
4	Cyanide compounds	FUJIFILM BI policy	All	None(Prohibited)	Except for inorganic cyanide compounds specified as poisonous substance by the Poisonous and Deleterious Substances Control Law
5	Pentachlorophenol (PCP)	Act on the Regulation of Manufacture and Evaluation of Chemical Substances FUJIFILM BI policy	All	None(Prohibited)	None
6	Polybrominated biphenyls (PBBs)	EU RoHS Directive	All	Equal to or less than 1,000 ppm	None
7	Polybrominated diphenylethers (PBDEs)	EU RoHS Directive	All	Equal to or less than 1,000 ppm	None
8	Polychlorinated biphenyls (PCBs)	EU POPs Regulation	All	None(Prohibited) Inform us if include PCBs as impurities.	None
9	Polychlorinated terphenyl (PCT)	EU REACH AnnexXVII	All	Equal to or less than 50 ppm /material	None
10	Polychlorinated naphthalenes (the number of chlorines is two or more)	EU POPs Regulation	All	None(Prohibited)	None
11	Tri-substituted organostannic compounds (containing tributyltin (TBT) compounds or triphenyltin (TPT) compounds)	EU REACH AnnexXVII	All	Equal to or less than 1,000 ppm by weight of tin in the article, or part thereof	None
12	Ozone depleting substances	Montreal Protocol FUJIFILM BI policy	All	None(Prohibited)	Except for use in manufacturing process and inclusion in parts
13	Benzene (CAS No.71-43-2)	Industrial Safety and Health Act / Substances Prohibited from Being Manufactured , FUJIFILM BI policy	All	None(Prohibited)	None

No.	Substance name	Main Regulations	Goods /Parts applied	Thresholds	Exemption/Purposes
14	Hexachlorobenzene (CAS No.7118-74-1)	Act on the Regulation of Manufacture and Evaluation of Chemical Substances FUJIFILM BI policy	All	None(Prohibited)	None
15	1,1,2-Trichloroethane (CAS No.79-00-5)	FUJIFILM BI policy	All	None(Prohibited)	None
16	Cadmium and its compounds	EU RoHS Directive	Others except below	Equal to or less than 100 ppm	See Table 2
		Battery Directive	Battery	Not exceeding 20 ppm in a battery	None
		EU Directive 94/62/EC	Packaging	The sum of cadmium, mercury, lead and hexavalent chromium not exceeding 100 ppm	None
17	Mercury and its compounds	EU RoHS Directive	Others except below	Equal to or less than 1,000 ppm	See Table 2
		Battery Directive	Battery	Not exceeding 5 ppm in a battery	None
		EU Directive 94/62/EC	Packaging	The sum of cadmium, mercury, lead and hexavalent chromium not exceeding 100 ppm	None
18	Lead and its compounds	EU RoHS Directive	Others except below	Equal to or less than 1,000 ppm	See Table 2
		California Proposition 65	Electric wire, cable, code coated with thermoset resin or thermoplastic resin	Not exceeding 300 ppm in surface coating	None
		Battery Directive	Battery	Not exceeding 420 ppm in a battery	None
		EU Directive 94/62/EC	Packaging	The sum of cadmium, mercury, lead and hexavalent chromium not exceeding 100 ppm	None
19	Hexavalent chromium compounds	EU RoHS Directive	Others except below	Equal to or less than 1,000 ppm	See Table 2
		EU Directive 94/62/EC	Packaging	The sum of cadmium, mercury, lead and hexavalent chromium not exceeding 100 ppm	None
20	Brominated flame retardants (excluding PBBs, PBDEs, HBCDD)	Blue Angel, ECO MARK, FUJIFILM BI policy	Plastic parts used for external covers (incl. control panel), plastic buttons on a control panel	None(Prohibited)	Parts located close to heating elements
			Packaging		

No.	Substance name	Main Regulations	Goods /Parts applied	Thresholds	Exemption/Purposes
21	Polyvinyl chloride (PVC)	Blue Angel, ECO MARK, FUJIFILM BI policy	Plastic parts used for external covers (incl. control panel), plastic buttons on a control panel Packaging	None(Prohibited)	Parts located close to heating elements
22	Radioactive substances	Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material and Reactors, FUJIFILM BI policy	All	None(Prohibited)	None
23	Tributyl tin oxide (TBTO) (CAS No.56-35-9)	EU REACH AnnexXVII	All	None(Prohibited)	None
24	Perfluorooctane sulfonate compounds Perfluorooctanesulfonic acid and its derivatives (PFOS)	EU POPs Regulation	All	None(Prohibited)	1) Resist and antireflective coating used for photolithography processes (2) Photographic film, photographic paper, printing plate
25	Dibutyltin compounds (DBT)	EU REACH AnnexXVII	All	Equal to or less than 1,000 ppm by weight of tin in the article, or part thereof	Parts and materials that, when substituted with an alternative, affect the quality of performance/function(s), etc. However, the threshold is set at 1,000 ppm or less in a material.
26	Diocyltin compounds (DOT)	EU REACH AnnexXVII	Two-component room temperature vulcanized molding kit (RTV-2)	Equal to or less than 1,000 ppm by weight of tin in the article, or part thereof	mpt with exception of two-component liquid room temperature vulcanization mold kit (RTV-2 mold kit)
27	Dimethyl fumarate (DMF) (CAS No.624-49-7)	EU REACH AnnexXVII	All	Equal to or less than 0.1 ppm (per part or component)	None
28	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (CAS No.3846-71-7)	Act on the Regulation of Manufacture and Evaluation of Chemical Substances	All	None(Prohibited)	None
29	Bis(2-ethylhexyl) phthalate (DEHP) (CAS No.117-81-7)	EU RoHS Directive	Others except below	Equal to or less than 1,000 ppm	None
		EU REACH AnnexXVII	Packaging	Total of DEHP, BBP, DBP, and DIBP shall not exceed 1000ppm. (denominator: per a piece of product supplied)	None
30	Benzyl butyl phthalate (BBP) (CAS No.85-68-7)	EU RoHS Directive	Others except below	Equal to or less than 1,000 ppm	None
		EU REACH AnnexXVII	Packaging	Total of DEHP, BBP, DBP, and DIBP shall not exceed 1000ppm. (denominator: per a piece of product supplied)	None

No.	Substance name	Main Regulations	Goods /Parts applied	Thresholds	Exemption/Purposes
31	Dibutyl phthalate (DBP) (CAS No.84-74-2)	EU RoHS Directive	Others except below	Equal to or less than 1,000 ppm	None
		EU REACH AnnexXVII	Packaging	Total of DEHP, BBP, DBP, and DIBP shall not exceed 1000ppm. (denominator: per a piece of product supplied)	None
32	Diisobutyl phthalate (DIBP) (CAS No.84-69-5)	EU RoHS Directive	Others except below	Equal to or less than 1,000 ppm	None
		EU REACH AnnexXVII	Packaging	Total of DEHP, BBP, DBP, and DIBP shall not exceed 1000ppm. (denominator: per a piece of product supplied)	None
33	Hexabromocyclodecane (HBCDD)	EU POPs Regulation	All	None(Prohibited)	None
34	Polycyclic aromatic hydrocarbons (PAHs): Benzo(a)pyrene (BaP) (CAS No.50-32-8) Benzo(e)pyrene (BeP) (CAS No.192-97-2) Benz(a)anthracene (BaA) (CAS No.56-55-3) Chrysene (CHR) (CAS No.218-01-9) Benzo(b)fluoranthene (BbFA) (CAS No.205-99-2) Benzo(j)fluoranthene (BjFA) (CAS No.205-82-3) Benzo(k)fluoranthene (BkFA) (CAS No.207-08-9) Dibenz(a,h)anthracene (DBAha) (CAS No.53-70-3)	EU REACH AnnexXVII	Articles with direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, made of plastic and rubber.	All applicable CAS numbers are to be 1 ppm or less per component.	Threshold to be applied to parts used in the following areas/applications: 1) Outermost surface of a keyboard, mouse device, or electronic pen 2) Outermost surface of an LCD touch panel 3) Outermost surface of an operational button 4) Other parts specified by FUJIFILM Business Innovation
35	Red phosphorus	FUJIFILM BI policy	Resin material used in electrical insulators of electrical/electronic parts	No intentional use	1) Applications other than for resin materials used in electrical insulators of electrical/electronic parts 2) Red phosphorus is coated with a water-proof substance or safety evaluation regarding the generation of phosphate is completed.
36	Perfluorooctanoic acid (PFOA), its salts	EU POPs Regulation	All	The concentration of PFOA and its salts shall be less than 25 ppb.	1) photographic coatings applied to films, 2) Photo-lithography process for semiconductors or in etching process for compound semiconductors
37	PFOA related substances	EU POPs Regulation	All	A single PFOA-related substance or combination of the substances shall not be used in a concentration exceeding 1,000 ppb	

No.	Substance name	Main Regulations	Goods /Parts applied	Thresholds	Exemption/Purposes
38	C9-C14 PFCA and its salts	EU REACH AnnexXVII	All	Total of C9-C14 PFCA and its salts contained in a molded product or mixture in an amount less than 25 ppb	C9-C14 PFCAs less than 1ppm (1,000 ppb) in polytetrafluoroethylene (PTFE) micropowders produced by ionizing irradiation or pyrolysis and in industrial and commercial mixtures and articles containing PTFE micropowders.
39	C9-C14 PFCA and its related substances	EU REACH AnnexXVII	All	C9-C14 PFCA-related substances or a combination thereof contained in a molded product or mixture in an amount less than 260 ppb	
40	Perfluorohexanesulphonic acid (PFHxS) and its salts	Swiss Chemical Risk Reduction Ordinance	All	Equal to or less than 25 ppb contained in a molded product or mixture	None
41	PFHxS-related substances	Swiss Chemical Risk Reduction Ordinance	All	Total of related substances contained in a molded product or mixture in an amount less than 1000 ppb	None
42	Long-chain perfluoroalkyl carboxylate (LCPFACs) and perfluoroalkyl sulfonic acid compounds	U.S. Toxic Substances Control Act (TSCA)	Parts with surface coating	None(Prohibited)	Other than parts with surface coating
43	Fluorinated greenhouse gases (PFC, SF6, HFC)	Regulation (EU) No 517/2014 FUJIFILM BI policy	All	None(Prohibited)	None
44	Mineral oil aromatic hydrocarbons (MOAH) with 1 to 7 aromatic rings	French AGEC law (mineral oil regulations) FUJIFILM BI policy	Packaging and printed materials	Of the ink used: ① Equal to or less than 1% (applicable until December 31, 2023) ② Equal to or less than 0.1% (applicable from January 1, 2024) ③ Equal to or less than 1 ppm of MOAH consisting of 3 to 7 aromatic rings (applicable from January 1, 2024)	Other than packaging and printed materials.
45	Mineral oil saturated hydrocarbons (MOSH) with 16 to 35 carbons	French AGEC law (mineral oil regulations) FUJIFILM BI policy	Packaging and printed materials	Equal to or less than 0.1% of the ink used (applicable from January 1, 2024)	
46	Tris (isopropylphenyl) phosphate (PIP(3:1)) (CAS No.68937-41-7)	U.S. Toxic Substances Control Act (TSCA)	All except for adhesives, sealants, lubricants, and greases	None(Prohibited)	① Adhesives and sealants (until 1/6/2024) ② Lubricants and greases

No.	Substance name	Main Regulations	Goods /Parts applied	Thresholds	Exemption/Purposes
47	Pentachlorothiophenol (PCTP) (CAS No.133-49-3)	U.S. Toxic Substances Control Act (TSCA)	All	None(Prohibited)	None

Table 2. Exemptions in EU RoHS Directive (ANNEX III)

The expire dates in the list are the applicable regulatory expire dates. As a general rule, deliveries to FUJIFILM will be prohibited starting one year prior to the expiry of the effective applicable regulatory date of expire.

No.	Exemption	Expire date
1	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	
1(a)	For general lighting purposes < 30 W: 2,5 mg	2023.2.24
1(b)	For general lighting purposes ≥ 30 W and < 50 W: 3,5 mg	2023.2.24
1(c)	For general lighting purposes ≥ 50 W and < 150 W: 5 mg	2023.2.24
1(d)	For general lighting purposes ≥ 150 W: 15 mg	2023.2.24
1(e)	For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 5 mg	2023.2.24
1(f)	For special purposes: 5 mg	Expired 2022.9.30
1(f)-I	For lamps designed to emit light in the ultra-violet spectrum: 5 mg	2027.2.24
1(f)-II	For special purposes: 5 mg	2025.2.24
1(g)	For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg	2023.8.24
2(a)	Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):	
2(a)(1)	Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4 mg	2023.8.24
2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 3 mg	2023.8.24
2(a)(3)	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8): 3,5 mg	2023.8.24
2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 3,5 mg	2023.8.24
2(a)(5)	Tri-band phosphor with long lifetime (≥ 25 000h): 5 mg	2023.8.24
2(b)	Mercury in other fluorescent lamps not exceeding (per lamp):	
2(b)(1)	Linear halophosphate lamps with tube diameter >28 mm (e.g. T10 and T12): 10 mg	Expired 2012.4.13
2(b)(2)	Non-linear halophosphate lamps (all diameters): 15 mg	Expired 2016.4.13
2(b)(3)	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9): 15 mg	2023.2.24
	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9): 10 mg	2025.2.24
2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	Replaced
2(b)(4)-I	Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	2025.2.24
2(b)(4)-II	Lamps emitting mainly light in the ultraviolet spectrum: 15 mg per lamp	2027.2.24
2(b)(4)-III	Emergency lamps: 15 mg per lamp	2027.2.24
3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp):	
3(a)	Short length (≤ 500 mm): 3,5 mg	2025.2.24
3(b)	Medium length (> 500mm and ≤ 1500 mm): 5 mg	2025.2.24
3(c)	Long length (> 1500 mm): 13 mg	2025.2.24
4(a)	Mercury in other low pressure discharge lamps (per lamp): 15 mg	2023.2.24

No.	Exemption	Expire date
4(a)-I	Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lamp-spectral output to be in the UV spectrum: up to 15 mg mercury may be used per lamp.	2027.2.24
4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index $R_a > 80$: $P \leq 105$ W: 16 mg may be used per burner	2027.2.24
4(b)-I	$P \leq 155$ W: 30 mg	2023.2.24
4(b)- II	$155W < P \leq 405$ W: 40 mg	2023.2.24
4(b)-III	$405W < P$: 40 mg	2023.2.24
4(c)	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):	
4(c)-I	$P \leq 155$ W: 20 mg	2027.2.24
4(c)- II	$155W < P \leq 405W$: 25 mg	2027.2.24
4(c)-III	$405W < P$: 25 mg	2027.2.24
4(d)	Mercury in High Pressure Mercury (vapour) lamps (HPMV)	Expired 2015.4.13
4(e)	Mercury in metal halide lamps(MH)	2027.2.24
4(f)	Mercury in other discharge lamps for special purposes not specifically mentioned in this table	Expired 2022.9.30
4(f)-I	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	2025.2.24
4(f)-II	Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required	2027.2.24
4(f)-III	Mercury in high pressure sodium vapour lamps used for horticulture lighting	2027.2.24
4(f)-IV	Mercury in lamps emitting light in the ultraviolet spectrum	2027.2.24
4(g)	Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications.	Expired 2018.12.31
5(a)	Lead in glass of cathode ray tubes	Expired 2016.7.21
5(b)	Lead in glass of fluorescent tubes not exceeding 0.2% by weight	Valid
6(a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight	Expired 2019.6.30
6(a)-I	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	Valid
6(b)	Lead as an alloying element in aluminium containing up to 0.4% lead by weight	Expired 2019.6.30
6(b)-I	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling	Valid
6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	Valid
6(c)	Copper alloy containing up to 4% lead by weight	Valid
7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)	Valid
7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	Expired 2016.7.21
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	Valid
7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	Valid
7(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	Expired 2013.1.1

No.	Exemption	Expire date
7(c)-IV	Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete semiconductors	Expired 2021.7.21
8(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs	Expired 2012.1.1
8(b)	Cadmium and its compounds in electrical contacts	Expired 2020.2.29
8(b)-I	Cadmium and its compounds in electrical contacts used in: -circuit breakers, -thermal sensing controls, -thermal motor protectors (excluding hermetic thermal motor protectors), -AC switches rated at: -6 A and more at 250 V AC and more, or -12 A and more at 125 V AC and more, -DC switches rated at 20 A and more at 18 V DC and more, and -switches for use at voltage supply frequency \geq 200 Hz.	Valid
9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75 % by weight in the cooling solution	Expired 2020.3.5
9(a)-I	Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators (including minibars) designed to operate fully or partly with electrical heater, having an average utilised power input < 75 W at constant running conditions	Expired 2021.3.5
9(a)-II	Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators: - designed to operate fully or partly with electrical heater, having an average utilised power input \geq 75 W at constant running conditions, - designed to fully operate with non-electrical heater.	Valid
9(b)	Lead in bearing shells and bushes for refrigerant- containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	Expired 2018.7.5
9(b)-I	Lead in bearing shells and bushes for refrigerant- containing hermetic scroll compressors with a stated electrical power input equal or below 9 kW for heating, ventilation, air conditioning and refrigeration (HVACR) applications	Expired 2019.7.21
11(a)	Lead used in C-press compliant pin connector systems	Expired 2010.9.24
11(b)	Lead used in other than C-press compliant pin connector systems	Expired 2013.1.1
12	Lead as a coating material for the thermal conduction module C-ring	Expired 2010.9.24
13(a)	Lead in white glasses used for optical applications	Valid
13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards	Expired 2018.7.5
13(b) -I	Lead in ion coloured optical filter glass types	Valid
13(b) -II	Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex	Valid
13(b) -III	Cadmium and lead in glazes used for reflectance standards	Valid
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	Expired 2011.1.1
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	Expired 2020.2.29
15(a)	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 mm ² or larger in any semiconductor technology node; -stacked die packages with die of 300 mm ² or larger, or silicon interposers of 300 mm ² or larger.	Valid
16	Lead in linear incandescent lamps with silicate coated tubes	Expired 2013.9.1
17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	Expired 2016.7.21

No.	Exemption	Expire date
18(a)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as speciality lamps for diazoprinting reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr,Ba) ₂ MgSi ₂ O ₇ :Pb)	Expired 2011.1.1
18(b)	Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi ₂ O ₅ :Pb)	Valid
18(b) -I	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi ₂ O ₅ :Pb) when used in medical phototherapy equipment	Valid
19	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact energy saving lamps(ESL)	Expired 2011.6.1
20	Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCDs)	Expired 2011.6.1
21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Expired 2020.2.29
21(a)	Cadmium when used in colour printed glass to provide filtering functions, used as a component in lighting applications installed in displays and control panels of EEE	Expired 2021.7.21
21(a)	Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Expired 2021.7.21
21(b)	Lead in printing inks for the application of enamels on other than borosilicate glasses	Expired 2021.7.21
21(c)	Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	Expired 2021.7.21
23	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Expired 2010.9.24
24	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	Valid
25	Lead oxide in the glass envelope of black light blue lamps	Expired 2016.7.21
26	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	Expired 2011.6.1
27	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	Expired 2010.9.24
29	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more	Valid
30	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)	Expired 2016.7.21
31	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi ₂ O ₅ :Pb) when used in medical phototherapy equipment	Expired 2016.7.21
32	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact energy saving lamps(ESL)	Valid
33	Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCDs)	Expired 2016.7.21
34	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Valid
36	Cadmium when used in colour printed glass to provide filtering functions, used as a component in lighting applications installed in displays and control panels of EEE	Expired 2010.7.1
37	Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Expired 2021.7.21
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	Expired 2016.7.21
39	Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm ² of light-emitting area) for use in solid state illumination or display systems	Expired 2018.11.20
39(a)	Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm ² of display screen area)	Valid
40	Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment	Expired 2013.12.13

No.	Exemption	Expire date
41	<p>Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council (1))</p> <p>(1) Directive 97/68/EC of the European Parliament and of the Council of 16 December 1997 on the approximation of the laws of the Member States relating to measures against the emission of gaseous and particulate pollutants from internal combustion engines to be installed in non-road mobile machinery (OJ L 59, 27.2.1998, p. 1).</p>	Expired 2022.3.31

Table3. The Specification standards for chemSHERPA Declarable Substances

The Specification standards for chemSHERPA Declarable Substances	Codes
Chemical Substances Control Law (Japan): Class I Specified Chemical Substances	LR01
Toxic Substances Control Act (TSCA) (US): Section 6	LR02
EU ELV Directive 2011/37/EU Targeted substances list	LR03
EU RoHS Directive 2011/65/EU ANNEX II Targeted substances list	LR04
EU POPs Regulation (EC) 850/2004 Annex I	LR05
EU REACH Regulation (EC) 1907/2006: The Candidate List of Substances of Very High Concern for Authorisation (SVHC), Authorisation List	LR06
EU REACH Regulation (EC) 1907/2006: Annex XVII Restriction substances	LR07
EU Medical Devices Regulation (MDR) : Annex I 10.4 Substances	LR08
CHINA RoHS the Administrative Measures for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products	LR09
Global Automotive Declarable Substance List (GADSL)	IC01
IEC 62474 DB Declarable substance groups and declarable substances	IC02