

FUJIFILM

FUJIFILM Business Innovation Green Procurement Standard

Ver. 4.0



**FUJIFILM Group
Green Policy**

April 2025

**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	<ol style="list-style-type: none"> 1. Added the following 10 substance groups to the list of restricted chemical substances <ul style="list-style-type: none"> • 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) 2. Revised prohibition threshold values as stipulated by laws and regulations <ul style="list-style-type: none"> • 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) 3. Revised in line with FUJIFILM BI's Green Procurement Standard Form <ul style="list-style-type: none"> • 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

Revision No.	Details	Date of Revision
Ver.3.0	<ol style="list-style-type: none"> 1. Added the following 2 substance groups to the list of restricted chemical substances (Table 1) <ul style="list-style-type: none"> • Dechlorane Plus • UV-328 2. Revised goods/parts applied of the restricted chemical substances (Table 1) <ul style="list-style-type: none"> • Tris (isopropylphenyl) phosphate(PIP(3:1)) 3. Revised restriction values of the restricted chemical substances (Table 1) <ul style="list-style-type: none"> • Cyanide compounds • Pentachlorophenol (PCP) • Polychlorinated biphenyls(PCBs) • Ozone depleting substances • Benzene • Hexachlorobenzene • 1,1,2-Trichloroethane • Brominated flame retardants(exclude PBBs, PBDEs, HBCDD) • Polyvinyl chloride(PVC) • Radioactive substances • Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (CAS No.3846-71-7) • Red phosphorus • Fluorinated greenhouse gases (PFC, SF6, HFC) • Mineral oil aromatic hydrocarbons (MOAH) with 1 to 7 aromatic rings • Mineral oil saturated hydrocarbons (MOSH) with 16 to 35 carbons 4. Revised exemptions to the latest content (Table 2) 	April, 2024
Ver.3.1	1. Correction of error (CAS No. of Hexachlorobenzene, Table 2)	September, 2024

Ver.4.0	<ol style="list-style-type: none"> 1. Added requirements for consumables (Paragraphs 3, 4 and 6, Appendix 1) 2. The following seven substances were added to Appendix 2-a. <ul style="list-style-type: none"> • Medium-chain chlorinated paraffin (MCCP, C14-C17 chlorine content \geq 45% by weight) • Long-chain perfluorocarboxylic acid, its salts and related compounds • Elemental chlorine • Polyvinylidene chloride • Orthophthalates • Par and polyfluoroalkyl substances (PFAS) • Chlorinated flame retardants 3. The following three substances were removed from Appendix 2-a. <ul style="list-style-type: none"> • Inorganic cyanide compounds • Benzene • 1,1,2-Trichloroethane 4. Revised the names of substances, applicable laws and regulations, target products, parts, regulatory values, exempted products, and applications in Appendix 2-a in accordance with the latest laws and regulations <ul style="list-style-type: none"> • Asbestos • Azo dyes and pigments • Short-chain chlorinated paraffin (C10-13) • Pentachlorophenol (PCP) and its salts and esters • Polychlorinated biphenyls (PCBs) • Ozone-depleting substances • Hexachlorobenzene • Cadmium and its compounds • Mercury and its compounds • Lead and its compounds • Hexavalent chromium compounds • Brominated flame retardants (excluding PBBs, PBDEs, and HBCDDs) • Polyvinyl chloride (PVC) • Perfluorooctane sulfonic acid and its derivatives (PFOS) • Bis-2-ethylhexyl phthalate (DEHP) • Butyl benzyl phthalate (BBP) • Dibutyl phthalate (DBP) • Diisobutyl phthalate (DIBP) • Hexabromocyclododecane (HBCDD) • Specified polycyclic aromatic hydrocarbons (PAHs) • Red phosphorus • PFOA-related substances • Perfluorohexanesulfonic acid (PFHxS) and its salts • PFHxS related substances 	April, 2025
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Revision No.	Details	Date of Revision
	<ul style="list-style-type: none"> • Long-chain perfluoroalkyl carboxylic acid compounds (LCPFACs) and perfluoroalkyl sulfonic acid compounds • Fluorinated greenhouse gases (PFCs, SF6, HFCs) • Mineral oil aromatic hydrocarbons (MOAHs) consisting of 1~7 aromatic rings • Mineral oil saturated hydrocarbons (MOSH) with 16~35 carbon atoms • Tris(isopropylphenyl) phosphate (PIP(3:1)) • Pentachlorothiophenol (PCTP) • Dechlorane Plus (DP) • UV-328 <p>5. Revised exemptions to the latest content (Table 2-b)</p> <p>6. Addition of Substances Reported as Contained in Appendix 3</p> <ul style="list-style-type: none"> • Per and polyfluoroalkyl substances (PFAS) • Substances of Very High Concern (SVHC) 	

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1. Introduction

FUJIFILM Business Innovation Corp. and its affiliates (hereinafter, FUJIFILM BI) 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 BI 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 BI are prescribed in “FUJIFILM Business Innovation Green Procurement Standards.”

2. Objective of the FUJIFILM Business Innovation Green Procurement Standards

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

3. Scope of the FUJIFILM Business Innovation Green Procurement Standard

The FUJIFILM Business Innovation Green Procurement Standards apply to consumables, components, products, packaging materials, and other auxiliary materials supplied to FUJIFILM BI for products sold and supplied to customers.

4. Green Procurement Standards

Compliance with all of the following requirements are mandatory:

- (1) Supplied goods must not contain any restricted chemical substances provided in Annex1 and 2. Specific regulated threshold figures have to be met.
- (2) Accurate information about chemical contents must be provided so that FUJIFILM BI 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.

5. Requests to Suppliers

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

- (1) Compliance with the Green Procurement Standards for supplied goods
The supply of consumables, products, packaging materials, and other auxiliary materials must comply with Standards for Management of Restricted Chemical Substances shown in items (1) to (3) of Section 4 of this standard.
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 consumables, components, products, packaging materials, and other auxiliary materials supplied to FUJIFILM BI must be provided in the JAMP endorsed Information – Communication Sheets (chemSHERPA-AI or chemSHERPA-CI) or an alternative format as specified by FUJIFILM BI requesting the data indicating that the materials supplied to FUJIFILM BI are in compliance with the Green Procurement Standards. For supplied products used for consumables, in order to comply with the laws and regulations of each

country or to submit a notification based on laws and regulations, in addition to chemSHERPA-CI, we ask that you provide information on all chemical substances (substance name, CAS registration number, composition ratio) that make up the SDS and procured products.

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 BI 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 BI must be in accordance with the “Guidelines for the Management of Chemical Substances in Products” or other comparable industrial standards. FUJIFILM BI 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 BI requests that suppliers update their ISO 14001 certification or other environmental management certification, as well as ISO 9001 quality management certification.
- ③ FUJIFILM BI may conduct an audit based on the “Guidelines for the Management of Chemical Substances in Products” on a supplier's chemical substance management system.

(3) Other

From time to time, there may be requests to provide regulatory information for FUJIFILM BI's products to comply with specific regulations and or in response to FUJIFILM BI'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 BI conducts RoHS tests based on IEC 62321 prior to production. If a concern is discovered during the tests, FUJIFILM BI 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 BI will request for submission individually together with the analysis method.

6. Definitions of Terms

(1) Consumable

It refers to chemicals used to provide the main functions of FUJIFILM BI products (e.g., toners, carriers, inks) or maintain operations of the main functions of said products (e.g., lubricant oil used for fusing device).

(2) Chemical substance

It refers to chemical elements (including polymers) or their compounds that have specific chemical composition and characteristic properties.

(3) Compound

It refers to a chemical substance produced by chemical reactions between two or more chemical substances.

(4) Mixture

It refers to a mixed thing of two or more chemical substances, not by chemical reactions.

(5) Chemical product

It refers to chemical substances or mixtures having chemical composition and characteristic properties and commercialized as a product.

(6) Impurity

It refers to unintentional chemical substances that exist in materials. These are chemical substances other than intended chemical substances produced by reactions other than intended reactions, such as unreacted substances, reaction catalysts, indicators, and by-products. They do not include intentionally added chemical substances.

(7) Article

It refers to an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition.

If said object is transferred or provided and then further processed by the recipient, it may not be considered as an article but a chemical. Depending on its packing style or purpose, some countries or regions may consider it still as an article.

Note 1; US and Europe consider carrier as an article. In this standard, carrier is treated as a chemical.

(8) Battery

It refers to an item that generates electron (electricity) by chemical reactions and can utilize the flow of the electrons as electricity. It includes dry cell batteries and button batteries. It also includes the cases where they are incorporated into products or components.

(9) Packaging

It refers to any material object intended for storage, protection, handling, transportation or presentation of products, parts, and raw materials. It is categorized into primary packaging (product packaging), secondary packaging (collective packaging), and tertiary packaging (transport packaging).

It doesn't include the items that retain their contents until the end of their life or remain as a part of a printing device such as toner cartridges. In addition, it doesn't include the packaging materials that our business partners use to deliver goods to FUJIFILM BI and are intended to be disposed of after delivery.

(10) Content

It refers to the presence of relevant chemical substances in parts and materials, whether intentional or not, including impurities and in-process transfers.

(11) Intentional Use

It refers to the presence of relevant chemical substances in parts and materials due to its intentional addition to achieve specific quality regardless of the standard values.

(12) Restricted chemical substance

It refers to any of the following chemical substances:

- ① Chemical substances that are prohibited for use in consumables.
These are chemical substances prohibited or restricted from being manufacturing, imported, or used by international treaties or laws. (See Appendix 1-a.)
- ② Chemical substances that are prohibited for use in consumables.
These are chemical substances classified as Category 1 of CMRs (carcinogenic, mutagenic, reproductive toxicity) by international research organizations or laws. (See Appendix 1-b.)
- ③ Chemical substances that are prohibited for use in articles. These are chemical substances that laws and FUJIFILM BI policy prohibit or restrict from being contained in chemical substances, mixtures, parts, components, products, packaging materials and auxiliary substances. (See Appendix 2.)

(13) Reportable chemical substances

It refers to a chemical substance whose content and volume are subject to reporting required by laws and regulations. (See Appendix 3.)

(14) Content controlled chemical substances

It refers to chemical substances subject to chemSHERPA management. These chemical substances are subject to management of its content when they are contained in the procured goods delivered to FUJIFILM BI.

(15) 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>

(16) 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 BI.

(17) 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.

(18) 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

(19) 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.

(20) 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 BI comply the specific regulations.

Appendix 1 Criteria of restricted chemical substances (Consumables)

The chemical substances prohibited from being used in consumables are shown below in (1) and (2). Appendices 2 - 4 are applicable to the procured goods used for articles or the resin materials whose final use is as article.

(1) Chemical substances specified by international treaties and laws

The chemical substances specified in Appendix 1-a below are prohibited from being intentionally used in the procured goods which are to be used for consumables.

When any of these chemical substances are unintentionally contained (such as impurities), FUJIFILM BI asks you to report its CAS Registry Number and content to FUJIFILM BI.

Additionally, when there is a limit concentration value for a chemical substance specified by applicable international treaty or law, exceeding the limit concentration value is prohibited even though unintentionally contained (such as impurities).

Appendix 1-a: List of international conventions or laws that specify prohibited substances

No	Country/Region	Names of international conventions or laws and/or names of prohibited substances
1	Japan	Class 1 Specified Chemical Substances and Class 2 Specified Chemical Substances under the Chemical Substances Control Law (CSCL) Class 1 Specified Chemical Substances: https://www.nite.go.jp/chem/jcheck/list6.action?category=211&request_locale=ja Class 2 Specified Chemical Substances: https://www.nite.go.jp/chem/jcheck/list6.action?category=212&request_locale=ja
2	Japan	Harmful Substances Prohibited for Manufacture under the Industrial Safety and Health Act (ISHA) https://www.jaish.gr.jp/anzen/hor/hombun/hor1-1/hor1-1-7-1-0.htm
3	Japan	Specified poisonous substance and Poisonous substance under the Poisonous and Deleterious Substances Control Law https://laws.e-gov.go.jp/law/340CO000000002/
4	Japan	Specified substances under The OzonLayer Protection Law https://laws.e-gov.go.jp/law/406CO000000308/
5	Japan	Specified Substances under the Chemical Weapon Prohibition law Column 3 (toxic substances; Table 1A agents) or Column 4 (raw materials; Table 1B agents) of Appended Table 1 of the Enforcement Order https://laws.e-gov.go.jp/law/407CO000000192/
6	Japan	Prohibited substances, narcotics, psychotropic drugs, and their raw materials as designated under the Narcotics and Psychotropics Control Law https://laws.e-gov.go.jp/law/328AC0000000014
7	Japan	Phenylaminopropane, phenylmethylaminopropane, and their salts, as specified under the Stimulants Control Act https://laws.e-gov.go.jp/law/326M50000100030
8	Japan	Opium, poppy and poppy husk as specified under the Opium Act https://laws.e-gov.go.jp/law/329AC0000000071
9	Japan	Cannabis plant and its products as designated under the Cannabis Control Act. https://laws.e-gov.go.jp/law/323AC0000000124
10	Japan	Controlled substances under the Act Concerning Special Provisions for the Narcotics and Psychotropics Control Law, etc. and Other Matters for the Prevention of Activities Encouraging Illicit Conducts and Other Activities Involving Controlled Substances through International Cooperation (*1) *1: The chemical substances referred to in this Act are those designated in the Narcotics and Psychotropics Control Law, the Stimulants Control Act, and the Opium Control Act.
11	Japan	the Act on Preventing Environmental Pollution of Mercur (mercury and mercury compounds specified in the Minamata Convention) https://minamataconvention.org/sites/default/files/2021-06/Minamata-Convention-booklet-Sep2019-EN.pdf

No	Country/Region	Names of international conventions or laws and/or names of prohibited substances
12	International	Substances specified in Annexes A to C of the Stockholm Convention on Persistent Organic Pollutants (POPs Convention) https://chm.pops.int/Convention/ThePOPs/ListingofPOPs/tabid/2509/Default.aspx
13	International	Substances specified in Annex on Chemicals Schedule 1 under the Chemical Weapons Convention (chemical substances) https://www.opcw.org/chemical-weapons-convention/annexes/annex-chemicals/schedule-1
14	International	Ozone-depleting substances (ODSs) specified in Annex A Group I and II, Annex B Group I to III, Annex C Group I to III, Annex E Group I, and Annex F Group I and II of the Montreal Protocol https://ozone.unep.org/treaties/montreal-protocol/summary-control-measures-under-montreal-protocol
15	International	Chemical substances designated in Appendices I to IV of the Single Convention on Narcotic Drugs https://www.incb.org/incb/en/narcotic-drugs/Yellowlist/yellow-list.html
16	International	Substances specified in Tables I and II of the United Nations Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances https://www.unodc.org/unodc/en/treaties/illicit-trafficking.html
17	International	Substances specified in the Minamata Convention on Mercury https://minamataconvention.org/sites/default/files/2021-06/Minamata-Convention-booklet-Sep2019-EN.pdf
18	Europe	EU POPs Regulation [(EU) No 2019/1021] Substances specified or restricted in Annex I, Annex II, Annex III and Annex IV https://echa.europa.eu/list-of-substances-subject-to-pops-regulation
19	Europe	Substances subject to authorization as specified in Annex XIV of the EU REACH Regulation [(EU) No 1907/2006] https://www.echa.europa.eu/authorisation-list
20	Europe	Substances specified in Annex II of the EU RoHS Directive [(EU) No 2015/863] https://environment.ec.europa.eu/topics/waste-and-recycling/rohs-directive_en
21	United States	PBT substances (Persistent, Bioaccumulative and Toxic substances) designated under Article 6 of the Toxic Substances Control Act (TSCA) https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/regulation-chemicals-under-section-6a-toxic-substances
22	Japan	Monitoring Chemical Substances under the Chemical Substances Control Law (CSCL) https://www.meti.go.jp/policy/chemical_management/kasinhou/files/ippantou/monitoring_chemicals_list.pdf
23	Japan	Substances of Very High Concern (SVHC) that are published as candidate substances for authorization in Annex XIV of the EU REACH Regulation [(EU) No 1907/2006] https://echa.europa.eu/candidate-list-table
24	Japan	Class 1 Specified Chemical Substances Designated in the Ordinance on Prevention of Hazards due to Specified Chemical Substances of the Industrial Safety and Health Act (ISHA) https://www.jaish.gr.jp/anzen/hor/hombun/hor1-1/hor1-1-7-1-0.htm
25	Japan	Harmful Substances Subject to Obtain the Permission of Manufacturing under the Industrial Safety and Health Act (ISHA) https://laws.e-gov.go.jp/law/347AC0000000057#Mpat_1
26	International	Specific hazardous substances specified in Annex III of the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade (PIC Convention) https://www.pic.int/TheConvention/Chemicals/AnnexIIIChemicals/tabid/1132/language/en-US/Default.aspx
27	International	Radioactive materials classified as class 7 under United Nations Recommendations on the Transport of Dangerous Goods (TDG) https://www.pic.int/TheConvention/Chemicals/AnnexIIIChemicals/tabid/1132/language/en-US/Default.aspx
28	Europe	Substances specified in Annex XVII "Restrictions on the production, placing on the market and use of certain hazardous substances, mixtures and articles" of the EU REACH Regulation [(EU) No 1907/2006] (*2) https://echa.europa.eu/substances-restricted-under-reach *2: Excludes use within the scope of restrictions specified in Annex XVII of the REACH Regulation [(EU) No 1907/2006] and use for purposes other than prohibited applications. However, it is necessary to report the CAS registration number of the relevant substance and the concentration value contained in the procured product.

No	Country/Region	Names of international conventions or laws and/or names of prohibited substances
29	France	Mineral oil aromatic hydrocarbons and mineral oil saturated hydrocarbons as defined in the mineral oil ^(*3) ^(*4) criteria of Article 112 of the French Fight Against Waste and the Circular Economy (AGEC Law). https://www.legifrance.gouv.fr/jorf/id/JORFTEXT000045733481#:~:text=Notice%20%3A%20'article%20112%20de.%2D45%2D1%20et%20D. *3: The term "mineral oil" refers to oil produced from petroleum hydrocarbon-derived materials used in the manufacture of ink. *4: This Act also applies to toner materials.

(2) Chemical substances classified as Category 1 of CMRs by international research organizations or laws

The chemical substances classified as Category 1 of CMRs (carcinogenic, mutagenic, reproductive toxicity) specified by Appendix 1-b below, even if which are not specified by Appendix 1-a, are prohibited from being intentionally used in the procured goods which are to be used for consumables.

When any of these chemical substances are unintentionally contained (such as impurities), FUJIFILM BI asks you to report its CAS Registry Number and content to FUJIFILM BI.

However, the cases below are excluded even though it is a chemical substance classified as Category 1 of CMRs specified by Appendix 1-b.

- if the chemical substance is not specified in Appendix 1-a, and if it is a chemical substance selected by the development department of FUJIFILM BI, and if the executive responsible for development department of FUJIFILM BI exceptionally approves its use.

Appendix 1-b: List of international research institutes, laws and regulations, or academic societies that designate chemical substances classified as CMRs Category 1 or equivalent

No	Country/Region	Name of international research organization, law, or academic society that specifies chemical substances classified as CMRs Category 1
30	International	Substances designated as Group 1 carcinogens by the International Agency for Research on Cancer (IARC)
31	Japan	Substances classified as Group 1 carcinogens or Group 1 reproductive toxicants by the Japanese Society for Occupational Health (JSOH)
32	Europe	Substances classified as carcinogenic, germ cell mutagenic, or toxic to reproduction in Category 1A or 1B under the EU CLP Regulation [(EU) No 1272/2008]
33	United States	Substances designated as "Known To Be Human Carcinogens" by the National Toxicology Program (NTP)
34	United States	Substances classified as carcinogenic A1 by the American Conference of Governmental Industrial Hygienists (ACGIH)
35	United States	Substances classified as carcinogenic in the Integrated Risk Information System (IRIS) of the US Environmental Protection Agency (EPA)
36	Germany	Substances classified as carcinogenic group 1, germ cell mutagenic group 1, and reproductive toxic group 1 by the German Research Foundation (DFG)

Appendix 2 Criteria of restricted chemical substances (Articles)

The table below shows based on regulatory requirements in principle. There are, however, some chemical substances being restricted ahead of regulatory implementation because of future forecast. They will be revised after the law into effect.

Appendix 2-a: List of restricted chemical substances

No	Substance name	CAS No.	Main Regulations	Goods /Parts applied	Thresholds	Exemption /Purposes
1	Asbestos	–	EU REACH AnnexXVII	All	No intentional use	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	None.
3	Short-chained chlorinated paraffin (C10-13)	–	EU POPs Regulation	All	No intentional use, and less than 1,500 ppm	None
4	Pentachlorophenol (PCP) and its salts and esters	–	EU POPs Regulation, Act on the Regulation of Manufacture and Evaluation of Chemical Substances	All	No intentional use, and equal to or less than 5ppm	None
5	Polybrominated biphenyls (PBBs)	–	EU RoHS Directive	All	Equal to or less than 1,000 ppm	None
6	Polybrominated diphenylethers (PBDEs)	–	EU RoHS Directive	All	Equal to or less than 1,000 ppm	None
7	Polychlorinated biphenyls (PCBs)	–	EU POPs Regulation	All	No intentional use, and equal to or less than 50ppm	None
8	Polychlorinated terphenyl (PCT)	–	EU REACH AnnexXVII	All	Equal to or less than 50 ppm /material	None
9	Polychlorinated naphthalenes (the number of chlorines is one or more)	–	EU POPs Regulation	All	None(Prohibited)	None
10	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
11	Ozone depleting substances	–	Montreal Protocol	All	No intentional use	None

No	Substance name	CAS No.	Main Regulations	Goods /Parts applied	Thresholds	Exemption /Purposes
12	Hexachlorobenzene	118-74-1	EU POPs Regulation	All	No intentional use, equal to or less than 10ppm	None
13	Cadmium and its compounds	-	EU RoHS Directive	Others except below	Equal to or less than 100 ppm	None
			EU Battery Regulation	Battery	Not exceeding 20 ppm in a battery	None
			EU Packaging and Packaging Waste Regulation	Packaging	No intentional use, and the sum of cadmium, mercury, lead and hexavalent chromium not exceeding 100 ppm	None
14	Mercury and its compounds	-	EU RoHS Directive	Others except below	Equal to or less than 1,000 ppm	See Appendix 2-b
			EU Battery Regulation	Battery	Not exceeding 5 ppm in a battery	None
			EU Packaging and Packaging Waste Regulation	Packaging	No intentional use, and the sum of cadmium, mercury, lead and hexavalent chromium not exceeding 100 ppm	None
15	Lead and its compounds	-	EU RoHS Directive	Others except below	Equal to or less than 1,000 ppm	See Appendix 2-b
			California Proposition 65	Electric wire, cable, code coated with thermoset resin or thermoplastic resin	Not exceeding 300 ppm in surface coating	None
			EU Battery Regulation	Battery	Not exceeding 40 ppm in a battery	None
			EU Packaging and Packaging Waste Regulation	Packaging	No intentional use, and the sum of cadmium, mercury, lead and hexavalent chromium not exceeding 100 ppm	None

No	Substance name	CAS No.	Main Regulations	Goods /Parts applied	Thresholds	Exemption /Purposes
16	Hexavalent chromium compounds	–	EU RoHS Directive	Others except below	Equal to or less than 1,000 ppm	See Appendix 2-b
			EU Packaging and Packaging Waste Regulation	Packaging	No intentional use, and the sum of cadmium, mercury, lead and hexavalent chromium not exceeding 100 ppm	None
17	Brominated flame retardants (excluding PBBs, PBDEs, HBCDD)	–	Blue Angel, ECO MARK, EPEAT	Plastic parts used for external covers (incl. control panel), plastic buttons on a control panel	No intentional use, and equal to or less than 1,000 ppm weight bromine Parts containing 25% or more postconsumer recycled content are permitted up to 3,000 ppm weight bromine	Parts located close to heating elements
18	Polyvinyl chloride (PVC)	9002-86-2	Blue Angel, ECO MARK, EPEAT	Plastic parts used for external covers (incl. control panel), plastic buttons on a control panel	No intentional use, and equal to or less than 1000 ppm weight chlorine. Parts containing 25% or more postconsumer recycled content are permitted up to 3000 ppm weight chlorine.	Parts located close to heating elements
				Packaging	No intentional use, and the sum of PVC and polyvinylidene chloride not exceeding 100ppm by weight chlorine	None

No	Substance name	CAS No.	Main Regulations	Goods /Parts applied	Thresholds	Exemption /Purposes
19	Radioactive substances	–	Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material and Reactor	All	No intentional use	None
20	Tributyl tin oxide (TBTO)	56-35-9	EU REACH Annex XVII	All	None(Prohibited)	None
21	Perfluorooctane sulfonate compounds Perfluorooctane sulfonic acid and its derivatives (PFOS)	–	EU POPs Regulation	All	No intentional use, lower than 1,000ppm	None
22	Dibutyltin compounds (DBT)	–	EU REACH Annex XVII	All	Equal to or less than 1,000 ppm by weight of tin in the article, or part thereof	None
23	Diocetyl tin compounds (DOT)	–	EU REACH Annex XVII	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	None
24	Dimethyl fumarate (DMF)	624-49-7	EU REACH Annex XVII	All	Equal to or less than 0.1 ppm (per part or component)	None
25	phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	3846-71-7	Act on the Regulation of Manufacture and Evaluation of Chemical Substances	All	No intentional use	None
26	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	EU RoHS Directive	All except packaging	Equal to or less than 1,000 ppm	None
27	Benzyl butyl phthalate(BBP)	85-68-7	EU RoHS Directive	All except packaging	Equal to or less than 1,000 ppm	None
28	Dibutyl phthalate(DBP)	84-74-2	EU RoHS Directive	All except packaging	Equal to or less than 1,000 ppm	None
29	Diisobutyl phthalate(DIBP)	84-69-5	EU RoHS Directive	All except packaging	Equal to or less than 1,000 ppm	None

No	Substance name	CAS No.	Main Regulations	Goods /Parts applied	Thresholds	Exemption /Purposes
30	Hexabromocyclododecane (HBCDD)	–	EU POPs Regulation	All	No intentional use, and equal to or less than 75ppm	None
31	Polycyclic aromatic hydrocarbons (PAHs): Benzo(a)pyrene (BaP) Benzo(e)pyrene (BeP) Benz(a)anthracene (BaA) Chrysene (CHR) Benzo(b)fluoranthene (BbFA) Benzo(j)fluoranthene (BjFA) Benzo(k)fluoranthene (BkFA) Dibenz(a,h)anthracene (DBAhA)	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9 53-70-3	EU REACH Annex XVII	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. 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	All applicable CAS numbers are to be 1 ppm or less per component.	None
32	Red phosphorus	7723-14-0 (Redphosphorus only)	Company policy	Resin material used in electrical insulators of electrical/electronic parts	No intentional use	Red phosphorus is coated with a water-proof substance or safety evaluation regarding the generation of phosphate is completed.
33	Perfluorooctanoic acid (PFOA), its salts	–	EU POPs Regulation	All	The concentration of PFOA and its salts shall be equal to or less than 25 ppb.	None
34	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	None

No	Substance name	CAS No.	Main Regulations	Goods /Parts applied	Thresholds	Exemption /Purposes
35	C9-C14 PFCA and its salts	–	EU REACH Annex XVII	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 polytetrafluoro ethylene (PTFE) micropowders produced by ionizing irradiation or pyrolysis and in industrial and commercial mixtures and articles containing PTFE micropowders
36	C9-C14 PFCA and its related substances	–	EU REACH Annex XVII	All	C9-C14 PFCA-related substances or a combination thereof contained in a molded product or mixture in an amount less than 260 ppb	
37	Perfluorohexanesulphonic acid (PFHxS) and its salts	–	EU REACH Annex XVII	All	Equal to or less than 25 ppb contained in a molded product or mixture	None
38	PFHxS-related substances	–	EU REACH Annex XVII	All	Sum of concentrations of all PFHxS-related compounds equal to or below 1,000 ppb	None
39	Long-chain perfluoroalkyl carboxylate (LCPFACs) and perfluoroalkyl sulfonic acid compounds	–	US TSCA	Parts with surface coating	None(Prohibited)	Other than parts with surface coating
40	Fluorinated greenhouse gases (PFC, SF6, HFC)	–	Regulation (EU) No 517/2014	All	No intentional use	None

No	Substance name	CAS No.	Main Regulations	Goods /Parts applied	Thresholds	Exemption /Purposes
41	Mineral oil aromatic hydrocarbons (MOAH) with 1 to 7 aromatic rings	–	French AGECE law (mineral oil regulations)	Inks used in packaging and printed documents	Of the ink used: ① Equal to or less than 0.1% ② Equal to or less than 1 ppm of MOAH consisting of 3 to 7 aromatic rings	① Equal to or less than 0.1% of the ink used ② Labels to be attached to products and parts If it is difficult to decide, please contact us.
42	Mineral oil saturated hydrocarbons (MOSH) with 16 to 35 carbons	–	French AGECE law (mineral oil regulations)	Inks used in packaging and printed documents	Equal to or less than 0.1% of the ink used	
43	Tris (isopropylphenyl) phosphate (PIP(3:1))	68937-41-7	US TSCA	All	No intentional use, and less than 1,000ppm	① Lubricants and greases ② Wiring harnesses and electrical circuit boards (including terminals, fuse covers, cable sheathing, casings, connectors, tapes)
44	Pentachloro phenol (PCTP)	133-49-3	US TSCA	All	Equal to or less than 1%	None
45	Dechlorane Plus™ (DP)	13560-89-9 135821-03-3 135821-74-8	POPs Convention, EU POPs regulation (draft)	All	No intentional use, and equal to or less than 1ppm	None
46	UV-328	25973-55-1	POPs Convention, EU POPs regulation (draft)	All	No intentional use, and equal to or less than 1ppm	Triacetyl cellulose (TAC) film in polarizers

No	Substance name	CAS No.	Main Regulations	Goods /Parts applied	Thresholds	Exemption /Purposes
47	Chlorinated paraffins with carbon chain lengths in the range C14-17 and chlorination levels at or exceeding 45% chlorine by weight	–	POPs Convention (draft)	All	None(prohibited) Applicable from October 1 2026(After the regulation comes into effect, the content of it will take precedence.)	Make a decision according to the regulatory content.
48	Long-chain perfluorocarboxylic acids(LC-PFCA), their salts and related compounds (excluding C9-C14 PFCA and its salts and its related substances)	–	POPs Convention (draft)	All	None(prohibited) Applicable from October 1 2026(After the regulation comes into effect, the content of it will take precedence.)	Make a decision according to the regulatory content.
49	Chlorinated flame retardants (excluding Dechloran plus™)	–	Blue Angel, ECO MARK, EPEAT	Plastic parts used for external covers (incl. control panel), plastic buttons on a control panel	Equal to or less than 1,000 ppm weight bromine Parts containing 25% or more postconsumer recycled content are permitted up to 3,000 ppm weight bromine	Parts located close to heating elements
50	Elemental chloride	–	EPEAT	Paper packaging	No use and no contain	None
51	Polyvinylidene	9002-85-1	EPEAT	Packaging	No intentional use, and the sum of PVC and polyvinylidene chloride not exceeding 100ppm by weight chlorine	None

No	Substance name	CAS No.	Main Regulations	Goods /Parts applied	Thresholds	Exemption /Purposes
52	Ortho-phthalate (including DEHP,BBP,DBP ,DIBP)	–	EPEAT, EU REACH Annex XVII	Packaging	No intentional use. If contained, the total amount of orthophthalates listed in EU RoHS Prohibited Substances and EU REACH Annex XIV (Authorization list) ^{*5} is 500 ppm or less	None
53	Per- and polyfluoroalkyl substances (PFAS) *6	–	EPEAT	Packaging	No intentional use, and total fluorine is 100 ppm or less*7 If it contains 25% or more of recycled materials, fluorine is 1,000 ppm or less*7	None

*5 EU REACH Authorization list <https://echa.europa.eu/authorisation-list> (As of March 2025)

EU RoHS Prohibited Substances

- Bis(2-ethylhexyl) phthalate (CAS No.117-81-7)
- Dibutyl phthalate (CAS No.84-74-2)
- Benzyl butyl phthalate (CAS No.85-68-7)
- Diisobutyl phthalate (CAS No.84-69-5)

EU REACH Authorization substances

- Dipentyl Phthalate (CAS No.131-18-0)
- 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (CAS No.84777-06-0)
- Dihexyl phthalate (CAS No.84-75-3)
- Diisopentyl phthalate (CAS No.605-50-5)
- Bis(2-methoxyethyl) phthalate(CAS No.117-82-8)
- 1,2-Benzenedicarboxylic acid, di-C6-8-branchedalkyl esters,C7-rich (CAS No.71888-89-6)
- N-pentyl-isopentylphthalate (CAS No.776297-69-9)
- 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (CAS No.68515-50-4)
- 1,2-Benzenedicarboxylic acid, di-C7-11-branchedand linear alkylesters (CAS No.68515-42-4)
- 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesterswith $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5) (CAS No.68515-51-5,68648-93-1)

*6 The target substance is defined by the Maine PFAS Pollution Control Act (an organic fluorine compound containing at least one fully fluorinated carbon atom).

*7 The manufacturer may exclude any of the following items from the calculation: plastic parts with a surface area less than 50 cm², labels affixed to plastics bags or wraps, tape, staples.

Appendix 2-b. 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 BI 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	Expired 2023.2.24
1(b)	For general lighting purposes \geq 30 W and < 50 W: 3,5 mg	Expired 2023.2.24
1(c)	For general lighting purposes \geq 50 W and < 150 W: 5 mg	Expired 2023.2.24
1(d)	For general lighting purposes \geq 150 W: 15 mg	Expired 2023.2.24
1(e)	For general lighting purposes with circular or square structural shape and tube diameter \leq 17 mm: 5 mg	Expired 2023.2.24
1(f)	For special purposes: 5 mg	
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	Expired 2025.2.24
1(g)	For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg	Expired 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	Expired 2023.2.24
2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter \geq 9 mm and \leq 17 mm (e.g. T5): 3 mg	Expired 2023.8.24
2(a)(3)	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and \leq 28 mm (e.g. T8): 3,5 mg	Expired 2023.8.24
2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 3,5 mg	Expired 2023.2.24
2(a)(5)	Tri-band phosphor with long lifetime (\geq 25 000h): 5 mg	Expired 2023.2.24
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	Expired 2023.8.24
	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9): 10 mg	Expired 2025.2.24
2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	
2(b)(4)-I	Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	Expired 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 (\leq 500 mm): 3,5 mg	Expired 2025.2.24

No.	Exemption	Expire date
3(b)	Medium length (> 500mm and ≤ 1500 mm): 5 mg	Expired 2025.2.24
3(c)	Long length (> 1500 mm): 13 mg	Expired 2025.2.24
4(a)	Mercury in other low pressure discharge lamps (per lamp): 15 mg	Expired 2023.2.24
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 Ra > 80: P ≤ 105 W: 16 mg may be used per burner	2027.2.24
4(b)-I	P ≤ 155 W: 30 mg	Expired 2023.2.24
4(b)-II	155W < P ≤ 405 W: 40 mg	Expired 2023.2.24
4(b)-III	405W < P: 40 mg	Expired 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 ≤ 155 W: 20 mg	2027.2.24
4(c)-II	155W < P ≤ 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	
4(f)-I	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	Expired 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

No.	Exemption	Expire date
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. piezoelectric 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
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	(Use prohibited by our voluntary policy) 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 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	(Use prohibited by our voluntary policy) Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex	Valid

No.	Exemption	Expire date
13(b)-III	(Use prohibited by our voluntary policy) 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
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
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(b)	Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Expired 2021.7.21
21(c)	Lead in printing inks for the application of enamels on other than borosilicate glasses	Expired 2021.7.21
23	Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	Expired 2021.7.21
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Expired 2010.9.24
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	Valid
26	Lead oxide in the glass envelope of black light blue lamps	Expired 2016.7.21
27	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
29	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
30	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
31	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
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	Expired 2021.7.21

No.	Exemption	Expire date
33	Lead in solders for the soldering of thin copper wires of 100µm diameter and less in power transformers	Expired 2016.7.21
34	Lead in cermet-based trimmer potentiometer elements	Valid
36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30mg per display	Expired 2010.7.1
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	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
41	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) (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).	Expired 2022.3.31

Appendix 3 : Reportable chemical substances

The table below shows the chemical substances subject to content reporting in accordance with laws and regulations.

No	Substance name	Goods /Parts applied	Thresholds	Main Regulations
1	Per- and polyfluoroalkyl substances (PFAS) ※ ⁸	All	Intentional use	US TSCA, Canadian Environmental Protection Act
2	Substances of Very High Concern (SVHC)	All	Equal to or more than 0.1% in article	EU REACH SCIP

※⁸ The target substance is defined by the Maine PFAS Pollution Control Act (an organic fluorine compound containing at least one fully fluorinated carbon atom).

Appendix 4. 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