FUJIFILM

Fujifilm Green Procurement Standards

Ver. 3.6

FUJIFILM group
Green Policy

March, 2023

Ecology and Quality Management Division

ESG Division

FUJIFILM Corporation

Revision History

Revision No.	Details	Date of Revision
Ver. 1.0	Issued. (Japanese document only)	December 1, 2010
Ver. 1.1	1. Revision of the thresholds of mercury in batteries. 2. Addition of the thresholds of cadmium and lead in batteries.	July 20, 2011
Ver. 1.2	Addition of the exemption products for PCB into Table 1.	July 11, 2012
Ver. 1.3	1. Addition of 4 kinds of phthalates into the restricted chemical substances in articles. 2. Revision of the threshold of lead in articles for general consumers. 3. Revision of Table 2 according to that of EU RoHS Directive.	June 14, 2013
Ver. 1.4	1. Addition of Table 3 according to EU RoHS Directive. 2. Revision of Table 5 according to that of the specification standards for the JAMP Declarable Substances.	May 19, 2014
Ver. 2.0	1.Elimination of the distinction between “Green Procurement Standards for Supplied Goods” and “Green Procurement Standards for Suppliers, and revisions of the Green Procurement Standards relating to supplied goods.” 2. Deletion of the provisions of item 4. (2) a) in Version 1.4. 3. Deletion of the provisions of item 4. (2) b) in Version 1.4. 4. Deletion of “Measures against noncompliant products” (Item 5. (6) in Version 1.4). 5. Deletion of the “Report of survey results of suppliers (environmental management levels)” (Item 5. (7) in vulershion 1.4). 6. Reflection of the revisions to the exempted items under the EU RoHS Directive.	April 28, 2015
Ver. 2.1	1. Addition of the following items into Table1 (1)The thresholds of 4 kinds of phthalates as newly added restricted chemical substances in articles in accordance with EU RoHS Directive. (2)The thresholds of chromium VI compounds in the leather articles and articles containing leather parts. (3)The thresholds of Polycyclic-aromatic hydrocarbons (PAH) in articles that have rubber or plastic components. (4)The thresholds of Lead and its compounds in articles that are smaller than 5 cm in one dimension. (5)The ban on the containing Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST) in chemical substances and mixtures. (6)The thresholds of Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST) in articles. (7)The thresholds of Perfluorooctanic acid (PFOA) and individual salts and esters of PFOA in articles. (8)Deletion of the exemption for the thresholds of Mercury in batteries other than dry batteries. 2. Division of Table 1 into following 2 sheets. (1)The standards for management of the restricted chemical substances in chemical substances and mixtures. (2)The standards for management of the restricted chemical substances in articles.	January 5, 2016
Ver.3.0	1. Revision of “Information-Communication” Sheets” to be provided by suppliers.	May 30, 2016

	2. Revision of “certificate of compliance”. 3. Addition of the definition of "Alternative format”.	
Ver.3.1	1. Addition of chemSHERPA format in "(2) Provision of information according to green procurement standard" in "5. Requests to suppliers". Addition of Table 6 according to that of the specification standards for the chemSHERPA Declarable Substances. 2. The following contents are added to Appendix 1 (1) Correction of the threshold value as stated in the law (e.g. 0,1% or less by weight in homogeneous materials of the EU RoHS Directive). (2) Addition of new restricted chemical substances based on European REACH regulations. 3. Updated European RoHS Directive exemption items described in Attachment 2 and Appendix 3 to the latest content.	June 29, 2017
Ver.3.2	1. Revision of following items caused from information transmission of contained chemicals switches from JAMP to chemSHERPA.. (1) Deletion of the JAMP form in "(2) Information to be provided in accordance with the Green Procurement Standards" in "5. Requests to Suppliers". (2) Deletion of "JAMP Declarable Substances" in "6. Definitions of Terms". (3) Deletion of "Table 5. The Specification standards for JAMP Declarable Substances". 2. Revision of the following contents of Table 1. (1) Revision of "Chemical Substances Control Law (Class I Specified Chemical Substances)" exemption. (2) Revision of "Mercury/Mercury compounds" based on "Act on Preventing Environmental Pollution of Mercury". (3) Revision of "Trisubstituted organotin compounds (including tributyltin (TBT) compounds and triphenyltin (TPT) compounds)". (4) Revision of "Dibutyltin (DBT) compounds". (5) Addition of " Perfluorooctanoic acid (PFOA) (CAS No 335-67-1) and its salts. Any related substance (including its salts and polymers) having a linear or branched perfluoroheptyl group with the formula C7F15- directly attached to another carbon atom, as one of the structural elements. Any related substance (including its salts and polymers) having a linear or branched perfluorooctyl group with the formula C8F17- as one of the structural elements The following substances are excluded from this designation: － C8F17-X, where X = F, Cl, Br. － C8F17-C(=O)OH, C8F17-C(=O)O-X′ or C8F17-CF2-X′ (where X′ = any group, including salts).". (6) Deletion of "Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)". (7) Addition of "Red phosphorus". 3. Updated European RoHS Directive exemption items described in Table 2 and Table 3 to the latest contents.	June 29, 2018

Ver.3.3	1. Changed organization name from CSR div. to ESG div.. 2. Changed URL of JAMP / chemSHERPA website. 3. Addition of the revised European REACH Annex XVII entry #51 4. Updated the contents of the EU RoHS Directive exemption items in table 2 and table 3 to the latest contents and changed the format of the table.	August 8, 2019
Ver.3.4	1. Changed the following contents of Table 1 (1) and (2) (1) Added "US TSCA Section 6(h) PBT Chemicals" to restricted chemical substances (2) Amendment due to the change in restrictions on perfluorooctanoic acid (PFOA) and its salts and PFOA-related compounds from EU REACH regulation to EU POPs regulation (3) Set concentration limits for specified carcinogenic, mutagenic and reproductive toxicants found in clothing or related accessories and textiles other than clothing which, come into contact with human skin to an extent similar to clothing (4) Change the example of Substance name in the following laws to URL - Chemical Substances Control Law (Class I Specified Chemical Substances) - Labor Safety and health Law (Substances prohibited to be manufactured) - Poisonous and Deleterious Substances Control Law (Specified poisonous substances) - The Ozone Layer Protection Law (Specified substances) - Specified Substances According to the Law Concerning the Prohibition of Chemical Weapons and the Regulation of Specified Substances 2. Updated the EU RoHS Directive exemption items in Appendix 2 and Appendix 3 to the latest contents - Status change from "Expiration date" to "Valid" by requested for renewal - Change the fixed expiration date from "Valid" to "Expiration date" - Addition of exemptions (ANNEX III No.43, 44, ANNEX IV No.44) - Added end date to exemption for expiration 3. With the addition of 1(3) above, Table 6 of the restricted substances and maximum concentration limits by weight in homogeneous materials is added. 4. Added Table 7 which describes other phthalates specified in No.18-No.22 of Table 6 of 3 above.	September 30, 2020
Ver.3.5	1. Changed the following contents of Table 1 (1) and (2) (1) Addition the substances regulated by the “Opium Control Act”, “Cannabis Control Act”, and “Act Concerning Special Provisions for the Narcotics and Psychotropics Control Act, etc. and Other Matters for the Prevention of Activities Encouraging Illicit Conducts and Other Activities Involving Controlled Substances through International Cooperation”. (2) Addition the long-chain perfluoroalkyl carboxylate	October 1, 2021

	（LCPFAC）contained in the surface coating on the article as a restricted substance. (3) Amendment due to the change in restrictions on perfluorooctanoic acid (PFOA) and its salts as also regulated by US TSCA. 2. Updates the EU RoHS Directive exemption items in Appendix 2 and Appendix 3 to the latest contents - Revision the status change from "Expiration date" to "Valid" by requested for renewal - Revision the fixed expiration date from "Valid" to "Expiration date" - Addition of the exemptions (ANNEX III No.45) - Addition the end date of the exemptions for expiration	
Ver.3.6	1. Added the following contents of Table 1 Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances. 2. Updates the EU RoHS Directive exemption items in Appendix 2 and Appendix 3 to the latest contents - Revision the status change from "Expiration date" to "Valid" by requested for renewal - Revision the fixed expiration date from "Valid" to "Expiration date" - Addition of the exemptions (ANNEX IV No.45, 46, 47, 48) - Addition the end date of the exemptions for expiration 3. Added "China RoHS" to "Table 5. The specification standards for chemSHERPA Declarable Substances".	March 10, 2023

Contents

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.

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.

(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

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.

Furthermore, a self-audit or Fujifilm audit may be requested to confirm the management status of suppliers.

(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:

- Certificate of compliance with specified individual regulations
- Purchase specification or agreement including compliance with regulations.

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

(1) Chemical substances and mixtures

Regulation/Substance name	Goods applied	Thresholds	Exemption
Chemical Substances Control Law (Class I Specified Chemical Substances) Refer to NITE chemical risk infomation plattform (NITE-CHRIP) provided by National Institute of technology and Evaluation (NITE) https://www.nite.go.jp/chem/chrip/chrip_search/intSrhSpcLst?_e_trans=&slScNm=RJ_01_001	Chemical substances, mixtures	None(Prohibited)	Exemption which are specified in METI website of CSCL Class I Specified Chemical Substances. (URL: http://www.meti.go.jp/policy/chemical_management/kasinhou/about/class1specified_history.html)
Labor Safety and health Law (Substances prohibited to be manufactured) Refer to NITE chemical risk infomation plattform (NITE-CHRIP) provided by National Institute of technology and Evaluation (NITE) https://www.nite.go.jp/chem/chrip/chrip_search/intSrhSpcLst?_e_trans=&slScNm=RJ_04_011	Chemical substances, mixtures	None(Prohibited)	None
Poisonous and Deleterious Substances Control Law (Specified poisonous substances) Refer to NITE chemical risk infomation plattform (NITE-CHRIP) provided by National Institute of technology and Evaluation (NITE) https://www.nite.go.jp/chem/chrip/chrip_search/intSrhSpcLst?_e_trans=&slScNm=RJ_03_001	Chemical substances, mixtures	None(Prohibited)	None
The Ozone Layer Protection Law (Specified substances) Refer to NITE chemical risk infomation plattform (NITE-CHRIP) provided by National Institute of technology and Evaluation (NITE) https://www.nite.go.jp/chem/chrip/chrip_search/intSrhSpcLst?_e_trans=&slScNm=RJ_12_001	Chemical substances, mixtures	None(Prohibited)	None
Specified Substances According to the Law Concerning the Prohibition of Chemical Weapons and the Regulation of Specified Substances (Chemical Weapon Prohibition Law) Refer to NITE chemical risk infomation plattform (NITE-CHRIP) provided by National Institute of technology and Evaluation (NITE) https://www.nite.go.jp/chem/chrip/chrip_search/intSrhSpcLst?_e_trans=&slScNm=RJ_11_001	Chemical substances, mixtures	None(Prohibited)	None
Narcotics and Psychotropics Control Act (Narcotics and Psychotropics)	Chemical substances, mixtures	None(Prohibited)	None
Stimulants Control Act (Stimulants)	Chemical substances, mixtures	None(Prohibited)	None
Opium Control Act (Opium, Opium Poppy)	Chemical substances, mixtures	None(Prohibited)	None

Regulation/Substance name	Goods applied	Thresholds	Exemption
Cannabis Control Act (Cannabis plant and articles thereof)	Chemical substances, mixtures	None(Prohibited)	None
Act Concerning Special Provisions for the Narcotics and Psychotropics Control Act, etc. and Other Matters for the Prevention of Activities Encouraging Illicit Conducts and Other Activities Involving Controlled Substances through International Cooperation (Controlled Substances)	Chemical substances, mixtures	None(Prohibited)	None
EU REACH REGULATION (EC) 1907/2006 ANNEX XIV: Substances of Authorisation List https://echa.europa.eu/authorisation-list	Chemical substances, mixtures	None(Prohibited)	None
US TSCA Section 6(h) PBT Chemicals https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under	Chemical substances, mixtures	None(Prohibited)	Chemical substances, and mixtures specified by divisions of Fujifilm or Fujifilm subsidiaries
Cadmium / Cadmium compounds	Chemical substances, mixtures	None(Prohibited)	None
Mercury / Mercury compounds	Chemical substances, mixtures	None(Prohibited)	None
Polychlorinated terphenyls (PCTs)	Chemical substances, mixtures		None
Benzene (CAS No. 71-43-2)	Chemical substances, mixtures which are specified by divisions	Less than 0,1 % by weight	None
Dibutyltin (DBT) compounds	Mixtures	None(Prohibited)	
Diphenylether, octabromo derivative C12H2Br8O	Chemical substances, mixtures	Equal to or less than 0,1 % by weight	None
Trichlorobenzene (CAS No. 120-82-1)	Chemical substances, mixtures	Less than 0,1 % by weight	None

Regulation/Substance name	Goods applied	Thresholds	Exemption
Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds (i) perfluorooctanoic acid, including any of its branched isomers; (ii) its salts; (iii) PFOA-related compounds which, are any substances that degrade to PFOA, including any substances (including salts and polymers) having a linear or branched perfluoroheptyl group with the moiety (C7F15)C as one of the structural elements. The following compounds are not included as PFOA-related compounds: (i) C8F17-X, where X= F, Cl, Br; (ii) fluoropolymers that are covered by CF3[CF2]n-R', where R'=any group, n>16; (iii) perfluoroalkyl carboxylic acids (including their salts, esters, halides and anhydrides) with ≥8 perfluorinated carbons; (iv) perfluoroalkane sulfonic acids and perfluoro phosphonic acids (including their salts, esters, halides and anhydrides) with ≥9 perfluorinated carbons; (v) perfluorooctane sulfonic acid and its derivatives (PFOS), as listed in this Annex.	Chemical substances, mixtures	- PFOA or any of its salts equal to or below 0,025 mg/kg (0,0000025 % by weight) where they are present in substances or mixtures. - Any individual PFOA-related compound or a combination of PFOA-related compounds equal to or below 1 mg/kg (0,0001 % by weight) where they are present in substances or mixtures	Chemical substances, and mixtures specified by divisions of Fujifilm or Fujifilm subsidiaries

(2) Articles

Regulation/Substance name	Goods applied	Thresholds	Exemption
Chemical Substances Control Law (Class I Specified Chemical Substances) Refer to NITE chemical risk infomation plattform (NITE-CHRIP) provided by National Institute of technology and Evaluation (NITE) https://www.nite.go.jp/chem/chrip/chrip_search/intSrhSpcLst?_e_trans=&slScNm=RJ_01_001	Articles	None(Prohibited)	Exemption which are specified in METI website of CSCL Class I Specified Chemical Substances. (URL: http://www.meti.go.jp/policy/chemical_management/kasinhou/about/class1specified_history.html)
EU RoHS Directive Cadmium / Cadmium compounds	Articles	Equal to or less than 0,01 % by weight in homogeneous materials	See Table 2 and Table 3.
EU RoHS Directive Lead / Lead compounds	Articles	Equal to or less than 0,1% by weight in homogeneous materials	See Table 2 and Table 3.
EU RoHS Directive Hexavalent chromium / Hexavalent chromium compounds	Articles	Equal to or less than 0,1% by weight in homogeneous materials	See Table 2 and Table 3.
EU RoHS Directive Mercury / Mercury compounds	Articles	Equal to or less than 0,1% by weight in homogeneous materials	See Table 2 and Table 3.
EU RoHS Directive Polybromobiphenyl (PBB)	Articles	Equal to or less than 0,1% by weight in homogeneous materials	See Table 2 and Table 3.
EU RoHS Directive Polybrominated diphenyl ethers (PBDE)	Articles	Equal to or less than 0,1% by weight in homogeneous materials	See Table 2 and Table 3.
EU RoHS Directive Bis (2-ethylhexyl) phthalate (DEHP)	Articles	Equal to or less than 0,1% by weight in homogeneous materials	Articles specified by divisions of Fujifilm or Fujifilm subsidiaries.
EU RoHS Directive Dibutyl phthalate (DBP)	Articles	Equal to or less than 0,1% by weight in homogeneous materials	
EU RoHS Directive Butyl benzyl phthalate (BBP)	Articles	Equal to or less than 0,1% by weight in homogeneous materials	
EU RoHS Directive Diisobutyl phthalate (DIBP)	Articles	Equal to or less than 0,1% by weight in homogeneous materials	

Regulation/Substance name	Goods applied	Thresholds	Exemption
Bis (2-ethylhexyl) phthalate (DEHP) (CAS No.117-81-7) Dibutyl phthalate (DBP) (CAS No.84-74-2) Butyl benzyl phthalate (BBP) (CAS No.85-68-7) Diisobutyl phthalate (DIBP) (CAS No.84-69-5)	Articles	Equal to or less than 0,1% by weight of the plasticised material※, in any combination of the 4 phthalates ※"plasticised material" means the following homogeneous materials: - polyvinyl chloride (PVC), polyvinylidene chloride(PVDC), polyvinyl acetate (PVA), polyurethanes, - any other polymer (including inter alia polymer foams and rubber material) except silicone rubber and natural latex coatings, - surface oatings, non-slip coatings, finishes, decals, printed designs, - adhesives, sealants, paints and inks.	- Articles specified by divisions of Fujifilm or Fujifilm subsidiaries. - articles exclusively for industrial or agricultural use, or for use exclusively in the open air, provided that no plasticised material omes into contact with human mucous membranes or prolonged contact with human skin. - measuring devices for laboratory use, or parts thereof. - medical devices within the scope of Directives 90/385/EEC, 93/42/EEC or 98/79/EC, or parts thereof. - electrical and electronic equipment within the scope of Directive 2011/65/EU.
Lead Cadmium Mercury Hexavalent chromium	Packaging materials and auxiliary materials	The Sum of concentration levels of lead, cadmium, mercury and hexavalent chromium present in packaging or packaging components is less than 100 ppm by weight	None
Mercury/ Mercury compounds	Button zinc silver oxide batteries	Less than 0,0005 % by weight/Mercury and less than 1% by weight/ Mercury and its compounds	None

Regulation/Substance name	Goods applied	Thresholds	Exemption
Mercury/ Mercury compounds	Button zinc air batteries	Less than 0,0005 % by weight/Mercury and less than 2% by weight/ Mercury and its compounds	None
Mercury/ Mercury compounds	Other batteries	None (Prohibited)	None
Cadmium	Batteries	Less than 10 ppm	None
Lead	Alkaline batteries	Less than 40 ppm	None
Lead	Batteries other than alkaline batteries	Up to 0,1 % by weight	None
Mercury/ Mercury compounds	Switches and relays	None (Prohibited)	None
Mercury/ Mercury compounds	Linear fluorescent lamps (LFLs) for general lighting purposes those with a rated power consumption of 40 watts or less and using halophosphate phosphor as a main component	Equal to or less than 10 mg per lamp and equal to or less than 0,1 % by weight in homogeneous materials	None
Lead / Lead compounds	Articles	Paint and similar surface-coating materials for consumer use that contain lead or lead compounds and in which the lead content (calculated as lead metal) is less than 0,009 percent	None
Lead / Lead compounds	Articles or accessible parts of an article may be placed in the mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size	Concentration of lead (expressed as metal) in those articles or accessible parts thereof is less than 0,05 % by weight	Articles specified by divisions of Fujifilm or Fujifilm subsidiaries.

Regulation/Substance name	Goods applied	Thresholds	Exemption
Chromium(VI) compounds	-Leather articles coming into contact with the skin -Articles containing leather parts coming into contact with the skin	Less than 3 mg/kg (0,0003 % by weight) of the total dry weight of that leather part (Chromium(VI))	None
Perfluorooctane sulfonic acid and its derivatives (PFOS) $C_8F_{17}SO_2X$	Articles	None (Prohibited)	None
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) (CAS No. 85535-84-8)	Articles	Less than 0,15 % by weight	None
Trisubstituted organotin compounds (including tributyltin (TBT) compounds and triphenyltin (TPT) compounds)	Articles	Equal to or less than 0,1 % by weight of tin in the article, or part thereof	None
Dibutyltin (DBT) compounds	Articles	Equal to or less than 0,1 % by weight of tin in the article, or part thereof	Articles specified by divisions of Fujifilm or Fujifilm subsidiaries
Azo dyes, and azo pigment (that produce specific amine) (see Table 4.)	1. Textile articles 2. Leather articles	Equal to or less than 30 mg/kg (0,003 % by weight) in the dyed parts thereof	None
Formaldehyde	1. Wood products 2. Textile products	None (Prohibited)	None
Dimethylfumarate (DMF) (CAS No. 624-49-7)	Articles	Equal to or less than 0,1 mg/kg in the article, or any parts thereof	None
Polycyclic-aromatic hydrocarbons (PAH) (CAS No. 50-32-8, 53-70-3, 56-55-3, 218-01-9, 205-82-3, 205-99-2, 207-08-9, 192-97-2)	Articles containing rubber or plastic components	Less than 1 mg/kg (0,0001 wt% by weight of rubber or plastic component) of any of the listed PAHs.	None

Regulation/Substance name	Goods applied	Thresholds	Exemption
Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds (i) perfluorooctanoic acid, including any of its branched isomers; (ii) its salts; (iii) PFOA-related compounds which, are any substances that degrade to PFOA, including any substances (including salts and polymers) having a linear or branched perfluoroheptyl group with the moiety (C7F15)C as one of the structural elements. The following compounds are not included as PFOA-related compounds: (i) C8F17-X, where X= F, Cl, Br; (ii) fluoropolymers that are covered by CF3[CF2]n-R', where R'=any group, n>16; (iii) perfluoroalkyl carboxylic acids (including their salts, esters, halides and anhydrides) with ≥8 perfluorinated carbons; (iv) perfluoroalkane sulfonic acids and perfluoro phosphonic acids (including their salts, esters, halides and anhydrides) with ≥9 perfluorinated carbons; (v) perfluorooctane sulfonic acid and its derivatives (PFOS), as listed in this Annex	Articles	- PFOA or any of its salts equal to or below 0,025 mg/kg (0,0000025 % by weight) where they are present in articles. - Any individual PFOA-related compound or a combination of PFOA-related compounds equal to or below 1 mg/kg (0,0001 % by weight) where they are present in articles	Articles specified by divisions of Fujifilm or Fujifilm subsidiaries.
C9-C14 linear and/or branched perfluorocarboxylic acids (C9-C14 PFCAs), their salts and C9-C14 PFCAs-related substances Linear and branched perfluorocarboxylic acids of the formula CnF2n +1-C(= O)OH where n = 8, 9, 10, 11, 12, or 13 (C9-C14 PFCAs), including their salts, and any combinations thereof; Any C9-C14 PFCA-related substance having a perfluoro group with the formula CnF2n +1- directly attached to another carbon atom, where n = 8, 9, 10, 11, 12, or 13, including their salts and any combinations thereof; Any C9-C14 PFCA-related substance having a perfluoro group with the formula CnF2n +1- that it is not directly attached to another carbon atom, where n = 9, 10, 11, 12, 13 or 14 as one of the structural elements, including their salts and any combinations thereof. The following substances are excluded from this designation −CnF2n +1-X, where X = F, Cl, or Br where n = 9, 10, 11, 12, 13 or 14, including any combinations thereof, −CnF2n +1-C(= O)OX' where n> 13 and X'=any group, including salts.	Articles	below 25 ppb for the sum of C9-C14 PFCAs and their salts below 260 ppb for the sum of C9-C14 PFCA-related substances	Articles specified by divisions of Fujifilm or Fujifilm subsidiaries.

Regulation/Substance name	Goods applied	Thresholds	Exemption
Long-chain perfluoroalkyl carboxylate（LCPFAC）and its salts ・LCPFAC https://www.federalregister.gov/documents/2020/07/27/2020-13738/long-chain-perfluoroalkyl-carboxylate-and-perfluoroalkyl-sulfonate-chemical-substances-significant#sectno-citation-.721.10536 ・Perfluorooctanoic acid (PFOA) and its salts	Articles (surface coating)	None	Impurity※ Articles specified by divisions of Fujifilm or Fujifilm subsidiaries ※The threshold of the content of PFOA and its salts is restricted under 0.0000025 wt% even as impurities.
US TSCA Section 6(h) PBT Chemicals https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under	Articles	None(Prohibited)	Articles specified by divisions of Fujifilm or Fujifilm subsidiaries
The substances of specified carcinogenic, mutagenic or toxic for reproduction (See Table 6)	1. Clothing or related accessories; 2. Textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing	See Table 6 (in homogeneous materials)	Articles specified by divisions of Fujifilm or Fujifilm subsidiaries
Tris (2,3 dibromopropyl) phosphate (TBPP) (CAS No. 126-72-7)	Textile articles	None (Prohibited)	None
Tris(aziridinyl)phosphinoxide (TEPA) (CAS No. 545-55-1)	Textile articles	None (Prohibited)	None
Polybromobiphenyls; Polybrominatedbiphenyls (PBB) (CAS No. 59536-65-1)	Textile articles	None (Prohibited)	None
Arsenic compounds	Wood treated with preservatives	None (Prohibited)	None
Dioctyltin (DOT) compounds	- textile articles intended to come into contact with the skin, - gloves, - footwear or part of footwear intended to come into contact with the skin, - wall and floor coverings, - childcare articles, - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits).	Equal to or less than 0,1 % by weight of tin in the article, or part thereof	None

Regulation/Substance name	Goods applied	Thresholds	Exemption
Creosote	Wood treated with preservatives	None (Prohibited)	None
Nonylphenol ethoxylates (NPE) $(C_2H_4O)_nC_{15}H_{24}O$	Textile articles	Less than 0,01 % by weight of that textile article or of each part of the textile article	None
Bisphenol A (BPA) (CAS No. 80-05-7)	Thermal paper	Less than 0,02 % by weight	None
Bis(pentabromophenyl)ether (decabromodiphenyl ether; decaBDE) (CAS No. 1163-19-5)	Articles	Less than 0,1% by weight in the article, or part thereof	None
Red phosphorus	Articles containing plastic components for electronic insulation	Equal to or less than 0,1 % by weight	Articles which can secure electrical safety as an insulator. For details, consult with the purchasing department for consultation.

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

No.	Exemption	Expire date				
		category 1-7,10	category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments	category 11
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	2023.2.24	2023.2.24	2023.2.24	2023.2.24
1(b)	For general lighting purposes ≥ 30 W and < 50 W: 3,5 mg	2023.2.24	2023.2.24	2023.2.24	2023.2.24	2023.2.24
1(c)	For general lighting purposes ≥ 50 W and < 150 W: 5 mg	2023.2.24	2023.2.24	2023.2.24	2023.2.24	2023.2.24
1(d)	For general lighting purposes ≥ 150 W: 15 mg	2023.2.24	2023.2.24	2023.2.24	2023.2.24	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	2023.2.24	2023.2.24	2023.2.24	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	2027.2.24	2027.2.24	2027.2.24	2027.2.24
1(f)-II	For special purposes: 5 mg	2025.2.24	2025.2.24	2025.2.24	2025.2.24	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	2023.8.24	2023.8.24	2023.8.24	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	2023.2.24	2023.2.24	2023.2.24	2023.2.24	2023.2.24
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	2023.8.24	2023.8.24	2023.8.24	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	2023.8.24	2023.8.24	2023.8.24	2023.8.24
2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 3,5 mg	2023.2.24	2023.2.24	2023.2.24	2023.2.24	2023.2.24
2(a)(5)	Tri-band phosphor with long lifetime (≥ 25 000h): 5 mg	2023.2.24	2023.2.24	2023.2.24	2023.2.24	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	2023.2.24	2023.2.24	2023.2.24	2023.2.24	2023.2.24
	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9): 10 mg	2025.2.24	2025.2.24	2025.2.24	2025.2.24	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	2025.2.24	2025.2.24	2025.2.24	2025.2.24	2025.2.24
2(b)(4)-II	Lamps emitting mainly light in the ultraviolet spectrum: 15 mg per lamp	2027.2.24	2027.2.24	2027.2.24	2027.2.24	2027.2.24

No.	Exemption	Expire date				
		category 1-7,10	category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments	category 11
2(b)(4)-III	Emergency lamps: 15 mg per lamp	2027.2.24	2027.2.24	2027.2.24	2027.2.24	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	2025.2.24	2025.2.24	2025.2.24	2025.2.24
3(b)	Medium length (> 500mm and ≤ 1500 mm): 5 mg	2025.2.24	2025.2.24	2025.2.24	2025.2.24	2025.2.24
3(c)	Long length (> 1500 mm): 13 mg	2025.2.24	2025.2.24	2025.2.24	2025.2.24	2025.2.24
4(a)	Mercury in other low pressure discharge lamps (per lamp): 15 mg	2023.2.24	2023.2.24	2023.2.24	2023.2.24	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	2027.2.24	2027.2.24	2027.2.24	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	2027.2.24	2027.2.24	2027.2.24	2027.2.24
4(b)-I	P ≤ 155 W: 30 mg	2023.2.24	2023.2.24	2023.2.24	2023.2.24	2023.2.24
4(b)-Ⅱ	155W < P ≤ 405 W: 40 mg	2023.2.24	2023.2.24	2023.2.24	2023.2.24	2023.2.24
4(b)-Ⅲ	405W ＜ P: 40 mg	2023.2.24	2023.2.24	2023.2.24	2023.2.24	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	2027.2.24	2027.2.24	2027.2.24	2027.2.24
4(c)-Ⅱ	155W < P ≤ 405W: 25 mg	2027.2.24	2027.2.24	2027.2.24	2027.2.24	2027.2.24
4(c)-Ⅲ	405W ＜ P: 25 mg	2027.2.24	2027.2.24	2027.2.24	2027.2.24	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	2027.2.24	2027.2.24	2027.2.24	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	2025.2.24	2025.2.24	2025.2.24	2025.2.24	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	2027.2.24	2027.2.24	2027.2.24	2027.2.24
4(f)-III	Mercury in high pressure sodium vapour lamps used for horticulture lighting	2027.2.24	2027.2.24	2027.2.24	2027.2.24	2027.2.24
4(f)-IV	Mercury in lamps emitting light in the ultraviolet spectrum	2027.2.24	2027.2.24	2027.2.24	2027.2.24	2027.2.24

No.	Exemption	Expire date				
		category 1-7,10	category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments	category 11
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	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
5(b)	Lead in glass of fluorescent tubes not exceeding 0.2% by weight	Valid	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
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	Valid	Valid	Valid	Valid
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	Valid	Valid	Valid	Valid
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	Valid	Valid	Valid	Valid
7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)	Valid	Valid	Valid	Valid	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	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
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 (except applications covered under point 34)	Valid	Valid	Valid	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	Valid	Valid	Valid	Valid

No.	Exemption	Expire date				
		category 1-7,10	category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments	category 11
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	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
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	Valid	Valid	Valid	Valid
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 ≥ 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	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
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 2021.7.21				
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	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
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;				

No.	Exemption	Expire date				
		category 1-7,10	category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments	category 11
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	Valid	Valid	Valid	Valid
13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards	Expired 2018.7.5	Valid	Valid	Valid	Valid
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	Valid	Valid	Valid	Valid
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 mm2 or larger in any semiconductor technology node; -stacked die packages with die of 300 mm2 or larger, or silicon interposers of 300 mm2 or larger.	Valid	Valid	Valid	Valid	2024.7.21
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	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
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)2MgSi2O7: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 (BaSi2O5:Pb)	Valid	Valid	2023.7.21	2024.7.21	2024.7.21

No.	Exemption	Expire date				
		category 1-7,10	category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments	category 11
18(b) - I	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi2O5:Pb) when used in medical phototherapy equipment	Valid	Valid	2023.7.21		
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	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
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	2021.7.21				
23	Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	Expired 2010.9.24				
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Valid	Valid	Valid	Valid	2024.7.21
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	Expired 2016.7.21	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
26	Lead oxide in the glass envelope of black light blue lamps	Expired 2011.6.1				
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 2010.924				
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	Valid	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
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	Expired 2016.7.21	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
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	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21

No.	Exemption	Expire date				
		category 1-7,10	category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments	category 11
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	Valid	Valid	2023.7.21	Valid	2024.7.21
33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers	Expired 2016.7.21	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
34	Lead in cermet-based trimmer potentiometer elements	Valid	Valid	Valid	Valid	Valid
36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg 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	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	Expired 2016.7.21	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21
39	Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm2 of light-emitting area) for use in solid state illumination or display systems	Expired 2018.11.20	Expired 2018.11.20	Expired 2018.11.20	Expired 2018.11.20	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 mm2 of display screen area)	Valid	Valid	Valid	Valid	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	Expired 2021.7.21	2023.7.21	2024.7.21	2024.7.21

No.	Exemption	Expire date				
		category 1-7,10	category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments	category 11
42	Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment: - with engine total displacement ≥ 15 litres; or - with engine total displacement < 15 litres and the engine is designed to operate in applications where the time between signal to start and full load is required to be less than 10 seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and agriculture applications.					Excluding applications covered by entry 6(c) of this Annex. Expires on 21 July 2024.
43	Bis (2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed: (a) 30% by weight of the rubber for (i) gasket coatings; (ii) solid-rubber gaskets; or (iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine. (b) 10% by weight of the rubber, for rubber-containing components not referred to in point (a). For the purposes of this entry, 'prolonged contact with human skin' means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.					2024.7.21
44	Lead in solder of sensors, actuators, and engine control units (ECUs) of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council , installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users					2024.7.21
45	Lead diazide, lead styphnate, lead dipicramate, orange lead (lead tetroxide), lead dioxide in electric and electronic initiators of explosives for civil (professional) use and barium chromate in long time pyrotechnic delay charges of electric initiators of explosives for civil (professional) use					2026.4.20

Table 3. Exemptions in EU RoHS Directive (specific to medical devices and monitoring and control instruments) (ANNEX IV)

No.	Exemptions	Expire date		
		category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments
Equipment utilising or detecting ionising radiation				
1	Lead, cadmium and mercury in detectors for ionising radiation.	Valid	Valid	Valid
2	Lead bearings in X-ray tubes.	Valid	2023.7.21	2024.7.21
3	Lead in electromagnetic radiation amplification devices: micro-channel plate and capillary plate.	Valid	Valid	Valid
4	Lead in glass frit of X-ray tubes and image intensifiers and lead in glass frit binder for assembly of gas lasers and for vacuum tubes that convert electromagnetic radiation into electrons.	Expired 2021.7.21	2023.7.21	2024.7.21
5	Lead in shielding for ionising radiation.	Valid	2023.7.21	Valid
6	Lead in X-ray test objects.	Expired 2021.7.21	2023.7.21	2024.7.21
7	Lead stearate X-ray diffraction crystals.	Expired 2021.7.21	2023.7.21	2024.7.21
8	Radioactive cadmium isotope source for portable X-ray fluorescence spectrometers.	Expired 2021.7.21	2023.7.21	2024.7.21
Sensors, detectors and electrodes				
1a	Lead and cadmium in ion selective electrodes including glass of pH electrodes.	Valid	2023.7.21	Valid
1b	Lead anodes in electrochemical oxygen sensors.	Valid	2023.7.21	Valid
1c	Lead, cadmium and mercury in infra-red light detectors.	Valid	Valid	Valid
1d	Mercury in reference electrodes: low chloride mercury chloride, mercury sulphate and mercury oxide.	Expired 2021.7.21	2023.7.21	2024.7.21
Others				
9	Cadmium in helium-cadmium lasers.	Expired 2021.7.21	2023.7.21	2024.7.21
10	Lead and cadmium in atomic absorption spectroscopy lamps.	Expired 2021.7.21	2023.7.21	2024.7.21
11	Lead in alloys as a superconductor and thermal conductor in MRI.	Valid	2023.7.21	2024.7.21
12	Lead and cadmium in metallic bonds creating superconducting magnetic circuits in MRI, SQUID, NMR (Nuclear Magnetic Resonance) or FTMS (Fourier Transform Mass Spectrometer) detectors.	Valid	2021.6.30	Valid
13	Lead in counterweights.	Valid	2023.7.21	2024.7.21
14	Lead in single crystal piezoelectric materials for ultrasonic transducers.	Valid	2023.7.21	2024.7.21
15	Lead in solders for bonding to ultrasonic transducers.	Valid	2023.7.21	2024.7.21
16	Mercury in very high accuracy capacitance and loss measurement bridges and in high frequency RF switches and relays in monitoring and control instruments not exceeding 20 mg of mercury per switch or relay.	Expired 2021.7.21	2023.7.21	2024.7.21
17	Lead in solders in portable emergency defibrillators.	Valid	2023.7.21	2024.7.21
18	Lead in solders of high performance infrared imaging modules to detect in the range 8-14 μm.	Valid	2023.7.21	2024.7.21
19	Lead in Liquid crystal on silicon (LCoS) displays.	Expired 2021.7.21	2023.7.21	2024.7.21
20	Cadmium in X-ray measurement filters.	Valid	2023.7.21	2024.7.21
21	Cadmium in phosphor coatings in image intensifiers for X-ray images.	Expired 2019.12.31	Expired 2019.12.31	Expired 2019.12.31
22	Lead acetate marker for use in stereotactic head frames for use with CT and MRI and in positioning systems for gamma beam and particle therapy equipment.	Expired 2021.6.30	Expired 2021.6.30	Expired 2021.6.30
23	Lead as an alloying element for bearings and wear surfaces in medical equipment exposed to ionising radiation.	Expired 2021.6.30	Expired 2021.6.30	
24	Lead enabling vacuum tight connections between aluminium and steel in X-ray image intensifiers.	Expired 2019.12.31	Expired 2019.12.31	Expired 2019.12.31

No.	Exemptions	Expire date		
		category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments
25	Lead in the surface coatings of pin connector systems requiring nonmagnetic connectors which are used durably at a temperature below – 20 °C under normal operating and storage conditions.	Expired 2021.6.30	Expired 2021.6.30	Expired 2021.6.30
26	Lead in the following applications that are used durably at a temperature below – 20 °C under normal operating and storage conditions: (a) solders on printed circuit boards; (b) termination coatings of electrical and electronic components and coatings of printed circuit boards; (c) solders for connecting wires and cables; (d) solders connecting transducers and sensors. Lead in solders of electrical connections to temperature measurement sensors in devices which are designed to be used periodically at temperatures below - 150 °C.	Valid	Expired 2021.6.30	Valid
27	Lead in — solders, — termination coatings of electrical and electronic components and printed circuit boards, — connections of electrical wires, shields and enclosed connectors, which are used in (a) magnetic fields within the sphere of 1 m radius around the isocentre of the magnet in medical magnetic resonance imaging equipment, including patient monitors designed to be used within this sphere, or (b) magnetic fields within 1 m distance from the external surfaces of cyclotron magnets, magnets for beam transport and beam direction control applied for particle therapy. (c) MRI non-integrated coils, for which the Declaration of Conformity of this model is issued for the first time before 23 September 2022, or (d) MRI devices including integrated coils, which are used in magnetic fields within the sphere of 1 m radius around the isocentre of the magnet in medical magnetic resonance imaging equipment, for which the Declaration of Conformity is issued for the first time before 30 June 2024.	a) or b) 2023.3.31 c) or d) 2027.6.30	a) or b) 2023.3.31 c) or d) 2027.6.30	Expired 2021.6.30
28	Lead in solders for mounting cadmium telluride and cadmium zinc telluride digital array detectors to printed circuit boards.	Expired 2017.12.31	Expired 2017.12.31	Expired 2017.12.31
29	Lead in alloys, as a superconductor or thermal conductor, used in cryo-cooler cold heads and/or in cryo-cooled cold probes and/or in cryo-cooled equipotential bonding systems, in medical devices (category 8) and/or in industrial monitoring and control instruments.	Valid	Expired 2021.6.30	Expired 2021.6.30
30	Hexavalent chromium in alkali dispensers used to create photocathodes in X-ray image intensifiers.	Expired 2019.12.31	Expired 2019.12.31	Expired 2019.12.31
31a	Lead, cadmium, hexavalent chromium, and polybrominated diphenyl ethers (PBDE) in spare parts recovered from and used for the repair or refurbishment of medical devices, including in vitro diagnostic medical devices, or electron microscopes and their accessories, provided that the reuse takes place in auditable closed-loop business-to-business return systems and that each reuse of parts is notified to the customer.	Valid	Valid	2024.7.21
32	Lead in solders on printed circuit boards of detectors and data acquisition units for Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment. (*3)	Expired 2019.12.31	Expired 2019.12.31	Expired 2019.12.31
33	Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators. (*3)	class IIa: Expired 2019.12.31 class IIb: Expired 2020.12.31		

No.	Exemptions	Expire date		
		category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments
34	Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP ($BaSi_2O_5$: Pb) phosphors.	Valid	Expired 2021.7.21	
35	Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017.			2024.7.21
36	Lead used in other than C-press compliant pin connector systems for industrial monitoring and control instruments.			Expired 2020.12.31
37	Lead in platinized platinum electrodes used for conductivity measurements where at least one of the following conditions applies: (a) wide-range measurements with a conductivity range covering more than 1 order of magnitude (e.g. range between 0,1 mS/m and 5 mS/m) in laboratory applications for unknown concentrations; (b) measurements of solutions where an accuracy of +/– 1 % of the sample range and where high corrosion resistance of the electrode are required for any of the following: (i) solutions with an acidity < pH 1; (ii) solutions with an alkalinity > pH 13; (iii) corrosive solutions containing halogen gas;	2025.12.31	2025.12.31	2025.12.31
38	Lead in solder in one interface of large area stacked die elements with more than 500 interconnects per interface which are used in X-ray detectors of computed tomography and X-ray systems.	Expired 2019.12.31	Expired 2019.12.31	Expired 2019.12.31
39	Lead in micro-channel plates (MCPs) used in equipment where at least one of the following properties is present: (a) a compact size of the detector for electrons or ions, where the space for the detector is limited to a maximum of 3 mm/MCP (detector thickness + space for installation of the MCP), a maximum of 6 mm in total, and an alternative design yielding more space for the detector is scientifically and technically impracticable; (b) a two-dimensional spatial resolution for detecting electrons or ions, where at least one of the following applies: (i) a response time shorter than 25 ns; (ii) a sample detection area larger than 149 mm^2; (iii) a multiplication factor larger than $1,3 \times 10^3$. (c) a response time shorter than 5 ns for detecting electrons or ions; (d) a sample detection area larger than 314 mm^2 for detecting electrons or ions; (e) a multiplication factor larger than $4,0 \times 10^7$.	Valid	Valid	Valid
40	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC for industrial monitoring and control instruments.			Expired 2020.12.31
41	Lead as a thermal stabiliser in polyvinyl chloride (PVC) used as base material in amperometric, potentiometric and conductometric electrochemical sensors which are used in in-vitro diagnostic medical devices for the analysis of blood and other body fluids and body gases.		Expired 2022.3.31	
42	Mercury in electric rotating connectors used in intravascular ultrasound imaging systems capable of high operating frequency (> 50 MHz) modes of operation.	2026..6.30		
43	Cadmium anodes in Hersch cells for oxygen sensors used in industrial monitoring and control instruments, where sensitivity below 10 ppm is required.			2023.7.15
44	Cadmium in radiation tolerant video camera tubes designed for cameras with a centre resolution greater than 450 TV lines which are used in environments with ionising radiation exposure exceeding 100 Gy/hour and a total dose in excess of 100kGy.	2027.3.31		2027.3.31
45	Bis(2-ethylhexyl) phthalate (DEHP) in ion-selective electrodes applied in point of care analysis of ionic substances present in human body fluids and/or in dialysate fluids.	2028.7.21	2028.7.21	2028.7.21

No.	Exemptions	Expire date		
		category 8,9	category 8 in vitro diagnostic medical devices	category 9 industrial monitoring and control instruments
46	Bis(2-ethylhexyl) phthalate (DEHP) in plastic components in MRI detector coils.	2024.1.1	2024.1.1	2024.1.1
47	Bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP) and diisobutyl phthalate (DIBP) in spare parts recovered from and used for the repair or refurbishment of medical devices, including in vitro diagnostic medical devices, and their accessories, provided that the reuse takes place in auditable closed-loop business-to-business return systems and that each reuse of parts is notified to the customer.	2028.7.21	2028.7.21	
48	Lead in bismuth strontium calcium copper oxide (BSCCO) superconductor cables and wires and lead in electrical connections to these wires.	2027.6.30	2027.6.30	2027.6.30

Table 4. Specified amines that must not be generated

Specified amines	CAS-No.
Biphenyl-4-ylamine	92-67-1
Benzidine	92-87-5
4-chloro-o-toluidine	95-69-2
2-naphthylamine	91-59-8
o-aminoazotoluene	97-56-3
5-nitro-o-toluidine	99-55-8
4-chloroaniline	106-47-8
4-methoxy-m-phenylenediamine	615-05-4
4, 4'-methylenedianiline	101-77-9
3, 3'-dichlorobenzidine	91-94-1
3, 3'-dimethoxybenzidine	119-90-4
3, 3'-dimethylbenzidine	119-93-7
4, 4'-methylenedi-o-toluidine	838-88-0
6-methoxy-m-toluidine	120-71-8
4, 4'-methylene-bis(2-chloroaniline)	101-14-4
4, 4'-oxydianiline	101-80-4
4, 4'-thiodianiline	139-65-1
o-toluidine	95-53-4
4-methyl-m-phenylenediamine	95-80-7
2, 4, 5-trimethylaniline	137-17-7
o-anisidine	90-04-0
4-amino azobenzene	60-09-3

Table 5. 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

Table 6. The list of concentration limits for specified carcinogenic, mutagenic or toxic for reproduction found in clothing or related accessories and textiles other than clothing which, come into contact with human skin to an extent similar to clothing

N.o.	Substances	CAS No.	Concentration limit by weight in homogeneous materials
1	Cadmium and its compounds (listed in Annex XVII, Entry 28, 29, 30, Appendices 1-6)	—	1 mg/kg after extraction (expressed as Cd metal that can be extracted from the material)
2	Chromium VI compounds (listed in Annex XVII, Entry 28, 29, 30, Appendices 1-6)	—	1 mg/kg after extraction (expressed as Cr VI that can be extracted from the material)
3	Arsenic compounds (listed in Annex XVII, Entry 28, 29, 30, Appendices 1-6)	—	1 mg/kg after extraction (expressed as As metal that can be extracted from the material)
4	Lead and its compounds (listed in Annex XVII, Entry 28, 29, 30, Appendices 1-6)	—	1 mg/kg after extraction (expressed as Pb metal that can be extracted from the material)
5	Benzene	71-43-2	5mg/kg
6	Benz[a]anthracene	56-55-3	1mg/kg
7	Benz[e]acephenanthrylene	205-99-2	1mg/kg
8	Benzo[a]pyrene; Benzo[def]chrysene	50-32-8	1mg/kg
9	Benzo[e]pyrene	192-97-2	1mg/kg
10	Benzo[j]fluoranthene	205-82-3	1mg/kg
11	Benzo[k]fluoranthene	207-08-9	1mg/kg
12	Chrysene	218-01-9	1mg/kg
13	Dibenz[a,h]anthracene	53-70-3	1mg/kg
14	α,α,α,4-tetrachlorotoluene; p-chlorobenzotrichloride	5216-25-1	1mg/kg
15	α,α,α-trichlorotoluene; benzotrichloride	98-07-7	1mg/kg
16	α-chlorotoluene; benzyl chloride	100-44-7	1mg/kg
17	Formaldehyde	50-00-0	75mg/kg
18	1,2-Benzenedicarboxylic acid; Di-C6-8-branched alkylesters, C7-rich	71888-89-6	1000 mg/kg (individually or in combination with other phthalates listed in Annex XVII of EU REACH regulation classified as 1A 1B as carcinogenic, germ cell mutagenic or reproductive toxicity according to EU CLP regulation (see Table 7))
19	Bis(2-methoxyethyl) phthalate	117-82-8	1000 mg/kg (individually or in combination with other phthalates listed in Annex XVII of EU REACH regulation classified as 1A 1B as carcinogenic, germ cell mutagenic or reproductive toxicity according to EU CLP regulation (see Table 7))
20	Diisopentylphthalate	605-50-5	1000 mg/kg (individually or in combination with other phthalates listed in Annex XVII of EU REACH regulation classified as 1A 1B as carcinogenic, germ cell mutagenic or reproductive toxicity according to EU CLP regulation (see Table 7))
21	Di-n-pentyl phthalate (DPP)	131-18-0	1000 mg/kg (individually or in combination with other phthalates listed in Annex XVII of EU REACH regulation classified as 1A 1B as carcinogenic, germ cell mutagenic or reproductive toxicity according to EU CLP regulation (see Table 7))
22	Di-n-hexyl phthalate (DnHP)	84-75-3	1000 mg/kg (individually or in combination with other phthalates listed in Annex XVII of EU REACH regulation classified as 1A 1B as carcinogenic, germ cell mutagenic or reproductive toxicity according to EU CLP regulation (see Table 7))
23	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone (NMP)	872-50-4	3000 mg/kg

N.o.	Substances	CAS No.	Concentration limit by weight in homogeneous materials
24	N,N-dimethylacetamide (DMAC)	127-19-5	3000 mg/kg
25	N,N-dimethylformamide; dimethyl formamide (DMF)	68-12-2	3000 mg/kg
26	1,4,5,8-tetraaminoanthraquinone; C.I. Disperse Blue 1	2475-45-8	50mg/kg
27	Benzenamine, 4,4′ -(4-iminocyclohexa-2,5-dienylidenemethylene)dianiline hydrochloride; C.I. Basic Red 9	569-61-9	50mg/kg
28	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride; C.I. Basic Violet 3 with ≧0,1% of Michler's ketone ((EC No. 202-027-5)	548-62-9	50 mg/kg
29	4-chloro-o-toluidinium chloride	3165-93-3	30 mg/kg
30	2-Naphthylammoniumacetate	553-00-4	30 mg/kg
31	4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	30 mg/kg
32	2,4,5-trimethylaniline hydrochloride	21436-97-5	30 mg/kg
33	Quinoline	91-22-5	50 mg/kg

Table 7. The list of other specific phthalates in No.18-No.22 of Table 6

Substances	CAS No.
Bis(2-ethylhexyl) phthalate; DEHP	117-81-7
Dibutyl phthalate; DBP	84-74-2
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear [1] n-pentyl-isopentylphthalate [2] Di-n-pentyl phthalate (DPP) [3] Diisopentylphthalate [4]	84777-06-0 [1] 776297-69-9[2] 131-18-0 [3] 605-50-5 [4]
Benzyl butyl phthalate; BBP	85-68-7
1,2-Benzenedicarboxylic acid di-C7-11-branched and linear alkylesters	68515-42-4
1,2-Benzenedicarboxylic acid; Di-C6-8-branched alkylesters, C7-rich	71888-89-6
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
Diisobutyl phthalate	84-69-5
Di-n-hexyl phthalate (DnHP)	84-75-3
Dicyclohexyl phthalate	84-61-7
Bis(2-methoxyethyl) phthalate	117-82-8