

# Canon

# Green Procurement Standards

Ver.17.0

June 2025

# Canon Green Procurement Standards

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# Canon

## Green Procurement Standards

### 1. Objective

Guided by its corporate philosophy of “Kyosei”, Canon group (this is hereinafter referred to as “Canon”) has been conducting global environmental conservation activities. One of these activities is green procurement, in which procurement and purchasing of environment-friendly materials, parts, and products are prioritized when necessary resources are procured and purchased. Canon would like to proceed with “Maximization of Resource Efficiency” together with suppliers to realize global environment conservation. To attain this objective, the Canon Green Procurement Standards prescribe the conditions for starting dealings with suppliers.

### 2. Scope

These standards apply to the following parts and materials constituting Canon products, OEM products, and packaging for these products.

#### 1. Products

- (1) Parts, Units
- (2) Materials
- (3) Accessories packaged or used with product main units  
In Canon sales companies, the following accessories are included:
  - (a) Regular commodities packaged with Canon products
  - (b) OEM goods that add value to Canon products
  - (c) Standard commodities physically connected to Canon products
- (4) Printed matter (manuals, attached documents, etc.)
- (5) Auxiliary materials used in products, such as adhesives, lubricants, and paint for identification

#### 2. Packaging

Packaging herein includes packaging that is used to wrap, protect and distribute parts and materials delivered to Canon. The standards, however, do not apply for the time being to packaging in such cases as each Canon group’s delivery site agrees that these materials are discarded at each Canon site at the present moment.

### 3. Definitions of Terms

- 1. Environmental impact of business activities  
Refer to the impact that business activities have on the environment, such as use of energy, chemical substances, and water, as well as the emission of waste.
- 2. Environment-related laws and regulations  
Refer to laws and regulations, municipal by laws, and agreements, etc. related to environmental conservation, such as the prevention of air, water and soil pollution.
- 3. Production environmental impact substances  
Refer to chemical substances used in the process of production, or sales of parts and materials delivered to Canon. These chemical substances are specified in the “List of Production Environmental Impact Substances” (Attachment 1) and classified into the following two categories.
  - (1) Prohibited substances: Chemical substances whose use is prohibited or strictly limited according to international treaties, etc.
  - (2) Substances targeted for reduced levels of use: Chemical substances that are believed to have a high possibility of being subject to limits on their use according to international treaties, etc.

4. Preventive measures against pollution of soil and groundwater  
Refer to measures taken to predict and prevent soil and groundwater contamination.  
Examples 1; Spill trays, linings, fluid-proof dikes, wiping cloth and spill mats in locations where chemical substances are stored and used.  
Examples 2; Inspections of facilities, usage locations and storage locations.
5. Product environmental impact substances  
Refer to chemical substances contained in parts and materials delivered to Canon.  
These chemical substances are specified in the "List of Product Environmental Impact Substances" (Attachment 2) and classified into the following three categories.  
(1) Prohibited substances: Chemical substances that must not be used in parts and materials  
(2) Use-restricted substances: Chemical substances that are allowed to be used in parts and materials for a specified period  
(3) Controlled substances: Chemical substances that require tracking of the absence/presence of each substance in parts and materials, its content, purpose, and where it is contained, etc.
6. Chemical substance  
A chemical element or compound that either exists in nature or is obtained through a manufacturing process.
7. Mixture  
A mixture intentionally comprising two or more chemical substances.  
Examples; Paints, inks, alloy ingot, solder, resin pellets containing additive, etc.
8. Article  
An item of specific shape, appearance or design created during manufacture which substantially determines functions in final use rather than functions provided by its chemical composition.  
Examples: metal plates, gears, integrated circuits, electric appliances, transport equipment etc.
9. Chemical product  
Chemical substance or mixture.  
(The definitions of the terms 6. through 9. were taken from the "Guidelines for the Management of Chemical Substances in Products" issued by JAMP (Joint Article Management Promotion-Consortium)).
10. Contain  
It means that a particular chemical substance is originally present in a part or a material that constitutes a product. This term also refers to cases in which a substance exists as a result of addition, filling, mixing, or deposition, as well as results from a manufacturing process.
11. Intentional addition  
Refers to a state where a chemical substance is added to a product with a purpose, such as to give a certain quality.
12. Impurity  
An impurity refers to a chemical substance which has no intended role with respect to the product's functionality and whose chemical composition differs from those of substances/substance groups identified as environmental impact substances in products. Chemical substances that remain in products after common industrial refining processes are also regarded as impurities.  
However, such impurities are not regarded as inclusions in practice if they are technically unpredictable or their amounts are too small to obtain content information, except when limits or allowable values are prescribed by laws, ordinances, or standards.  
When a substance is intentionally added or inclusion is intended, it is not regarded as an impurity regardless of its concentration.
13. Scope (Scope in List of Product Environmental Impact Substances)  
This term refers to the types, purposes of use, and other conditions of products, parts, or materials to which the standards of environmental impact substances in products are applicable.

#### 14. Threshold

This term refers to the concentration, intentional use, or other conditions of an environmental impact substance in products to which the standards are applicable. When a concentration is specified for an environmental impact substance, the standards are applicable to cases in which the substance content is equal to or exceeding the specified concentration level.

The concentration of a substance is calculated using the following formula:

$$(\text{Concentration}) = \frac{(\text{content by mass of a specified chemical substance})}{(\text{mass of a part element that contains the substance})}$$

Note 1: Denominator of the concentration formula

"A part element that contains the substance", which is a denominator in the formula, differs depending on the law that applies. A denominator such as "in homogeneous materials", "in parts" or , etc., is indicated in "Threshold" . So, please use an appropriate denominator for calculation of the concentration.

Note 2: Homogeneous materials

"Homogeneous material" means an identical material of a part element that contains the specified chemical substance, and that cannot be mechanically disjointed into different materials.

Note 3: Unit of the concentration

The unit of concentration is expressed as a percent by weight, using the % and ppm (or ppb) notations. ppm is an abbreviation of "parts per million," that is, one millionth. 1 ppm equals 1 mg/kg. ppb is an abbreviation of "parts per billion," that is, one billionth. 1000 ppb equals 1 ppm.

Note 4: Elements converted value

When the applicable range is stipulated according to specific elements, the content and concentration of that element must be calculated with element equivalents. Element equivalents are calculated by multiplying the content or concentration of the compound containing the element in question by the conversion coefficient.

Note that the conversion coefficient is calculated by dividing the total atomic weight of the element in question by the molecular weight of the compound containing said element.

Ex.: Conversion coefficient for tin in dibutyltin dichloride ( $\text{C}_8\text{H}_{18}\text{Cl}_2\text{Sn}$ )

$$\text{Conversion coefficient (0.39)} = \frac{\text{Atomic weight of tin (118.7)}}{\text{Total molecular weight of dibutyltin dichloride (303.85)}}$$

#### 15. Exemption

This term refers to uses or products to which the standards for environmental impact substances in products are not applicable because they meet conditions of exemptions from legal restrictions.

#### 16. IEC62474

One of the international standards published by the International Electrotechnical Commission (IEC).

A document that specifies material declarations related to products and the electricity/electronic industry. For related lists, etc., please refer to the below URL.  
<https://std.iec.ch/iec62474/iec62474.nsf>

#### 17. DLS of IEC62474

DLS is an acronym for the Declarable Substance List established by IEC62474.

#### 18. chemSHERPA

Generic name given to the new scheme for communicating information on chemical substances in products. This scheme was developed under the leadership of the Ministry of Economy, Trade and Industry of Japan. The details are referred to the below URL.

<https://chemsherpa.net/english>

## 19. Canon supplier

In this standard, "Canon supplier" means Canon Group's tier 1 supplier.

## 20. Supplier

In this standard, "supplier" means supplier who delivers parts/materials to "Canon supplier".

#### 4. "Production Environmental Impact Substances" and "Product Environmental Impact Substances"

Canon prescribes the management criteria for the production environmental impact substances in Attachment 1, and the management criteria for the product environmental impact substances in Attachment 2.

## 1. Production environmental impact substances

## (1) Prohibited substances

Use of "1A Prohibited substances" is prohibited in the process of production, and sales of parts and materials delivered to Canon.

## (2) Substances targeted for reduced levels of use

Use of "1B Substances targeted for reduced levels of use" must be reduced in the process of production, and sales of parts and materials delivered to Canon.

## 2. Product environmental impact substances

The "List of Product Environmental Impact Substances" contains chemical substances selected as follows:

Substances contained in DSL of IEC62474, substances restricted by EU ELV Directive and substances for packing or substances added by Canon according to social trends and changes in laws and regulations.

## (1) Prohibited substances

The inclusion of "2A Prohibited substances" in amounts equal to or exceeding thresholds for applicable substances is prohibited in products/packs delivered to Canon, except for the exempted items, if any, specified in the lists.

The inclusion of "3A Prohibited Substances for Package and Printed matter only", "4A Prohibited Substances for in-vehicle product only" and "5A Prohibited Substances for Leather / Textile products only" in amounts equal to or exceeding thresholds for applicable substances is prohibited in package and printed matter delivered to Canon for 3A, in products delivered to Canon that are used in car-mounted products for 4A and in products delivered to Canon that are used in leather or textile products for 5A except for the exempted items, if any, specified in the lists adding to "2A prohibited substances".

Exemptions must be controlled in the same manner as the controlled substances. However, in cases where products/packs delivered to Canon contain the prohibited substance(s) in the form of chemical substances or mixtures, if Canon judges that such substance does not remain in final Canon products/packs or OEM products, or that it satisfied laws, regulations, standards, etc. with respect to certain usage conditions, there are cases where they may be delivered to Canon.

## (2) Use-restricted substances.

The inclusion of "2B Use-restricted substances" in amounts equal to or exceeding thresholds for applicable substances specified in the lists after the deadline dates is prohibited in products/packs delivered to Canon, except for the exempted items, if any, specified in those lists.

Exemptions must be controlled in the same manner as the controlled substances.

## (3) Controlled substances

Regarding "2C Controlled substances," it is necessary to monitor whether each substance is contained in products/packs delivered to Canon and, if so, keep track of its content, area of use, application, etc., except for the exempted items, if any, specified in the lists.

## 5. Principles behind the Requirements of the Canon Green Procurement Standards

To promote environmental conservation activities, Canon thinks it essential that the following four frameworks A through D function effectively:

A: Environmental management system for business activities

A company must construct and operate a system to reduce environmental impact caused by its business activities

B: Performance of business activities

As the result of constructing and operating an environmental management system, the following must be achieved: compliance with environment-related laws and regulations and other applicable legal requirements, no use of the prohibited substances, reduction in the use of substances targeted for reduced levels of use, and implementation of preventive measures against pollution of soil and groundwater.

C: Management of chemical substances in products (environmental management system for parts and materials)

A system must be constructed and operated to keep track of and manage chemical substances contained in parts and materials delivered to Canon.

D: Performance of parts and materials

No "prohibited substances" are contained in parts and materials delivered to Canon, and no "use-restricted substances" are contained after a specified period.

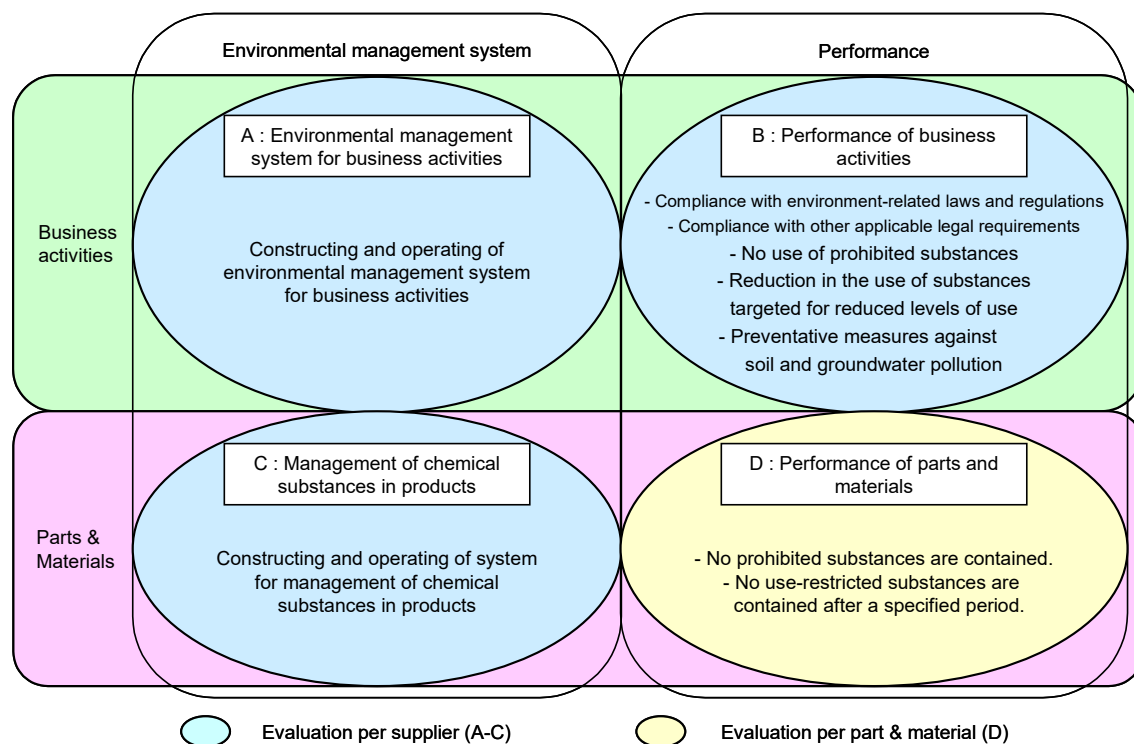


Figure 1; 4 frameworks

## 6. Procedure for Starting Dealings

Each supplier is asked to develop and operate an environmental management system related to business activities and the system for management of chemical substances in products to achieve the expected performance level based on the "7.Requirements" stipulated in the Canon Green Procurement Standards.

1. Evaluation of suppliers (A through C shown in Figure 1)
  - (1) Canon will request suppliers to submit "Self-Evaluation Sheet" based on "9 (1) Supplier Environmental Evaluation".
  - (2) Suppliers are asked to carry out self-evaluation of the conditions of activities performed to satisfy the "Requirements" and submit the result to Canon.
  - (3) Canon will carry out evaluation and make a judgment based on the results of self-evaluation submitted and start dealings with suppliers who satisfy the "Requirements".
2. Evaluation of parts and materials (D shown in Figure 1)
  - (1) Canon will request suppliers to submit information on product environmental impact substance related to parts and materials delivered to Canon based on "9.(2)Parts and Materials Evaluation".
  - (2) Suppliers are asked to submit the survey result.
  - (3) Canon will make a judgment based on the submitted survey result and only purchase parts and materials that satisfy the "Requirements".

## 7. Requirements

### [Requirements Related to Business Activities]

A : Requirements Related to an Environmental Management System for Business Activities

#### I. Construction of an Environmental management System

Responsibilities and procedures for conducting the following shall be defined and documented:

1. Policy
  - Draw up policy related to environmental management activities.
  - Communicate to all persons working for or on behalf of the organization
2. Planning
  - 2.1 Environmental aspect (Investigations of the current situation)
    - Survey on environmental impact of business activities
    - Survey on environment-related laws and regulations and other applicable legal requirements
    - Survey on production environmental impact substances
    - Survey on preventive measures against pollution of soil and groundwater
  - 2.2 Establishment targets and programs
    - Draw up targets and programs to reduce environmental impact based on the investigation results of the current situation.
3. Operational Control
  - Appoint management representative(s) of the environmental management system
  - Establish procedures necessary for achieving the targets.
  - Communicate the procedures necessary for achieving the targets.



#### 4. Performance Evaluation and Improvement

- Evaluate the progress of the programs, attainment of the targets, and the sufficiency of the environmental management system, and report the evaluation results to management.

#### 5. Management Review

- Evaluate performance involving top management, check compliance with laws and regulations related to environment and other applicable legal requirements and find solutions to problems.
- Reflect the above results on "1. Policy" and "2.2 Establishment of targets and programs".

### II. Operation of an Environmental Management System

- Activities shall be performed according to the responsibilities and procedures established to meet the above requirements (1. Construction of an Environmental Management System).
- The results of activities shall be recorded, and their records kept.

### B : Requirements Related to Performance of Business Activities

#### 1. Compliance with laws and regulations

- Suppliers must comply with environment-related laws and regulations.
- Suppliers must comply with other applicable legal requirements.

#### 2. Management of production environmental impact substances

##### 2.1 Prohibited substances

- None of the "1A Prohibited Substances" defined in the "List of Production Environmental Impact Substances" (Attachment 1) shall be used in the process of development, production, and sales of parts and materials delivered to Canon.

##### 2.2 Substances Targeted for Reduced Levels of Use

- "1B Substances Targeted for Reduced Levels of Use" defined in the "List of Production Environmental Impact Substances" (Attachment 1) shall be reduced in the process of development, production, or sales of parts and materials delivered to Canon.

#### 3. Preventive measures against pollution of soil and groundwater

- Measures shall be taken to prevent the pollution of soil and groundwater by chemical substances.

Note: "1A Prohibited substances" in the "List of Production Environmental Impact Substances" (Attachment 1) are, in principle, banned from use. Contact Canon if any of these substances is not banned by any regulations in the country or region and its substitution is technically difficult.

## [Requirements Related to Parts and Materials]

### C : Requirements related to the Management of Chemical Substances in Products

Responsibilities and procedures shall be defined and documented to conduct activities in conformity with the Action Items for Management of Chemical Substances in Products and action details in the "Guidelines for the Management of Chemical Substances in Products" issued by the JAMP (Joint Article Management Promotion-consortium). Then activities shall be carried out according to the established procedures.

The requirements prescribed in this document make it indispensable that the substances defined in the "List of Product Environmental Impact Substances" (Attachment 2) be included as objects of the management.

\*Please access the below websites to see the "Guidelines for the Management of Chemical Substances in Products."

Ver.3: <https://chemsherpa.net/english/docs/guidelines/archive?id=6>

Ver.4: <https://chemsherpa.net/english/docs/guidelines>

For the time being, either Ver. 3 or Ver. 4 may be used.

### D : Requirements Related to Performance of Parts and Materials

#### 1. Management of product environmental impact substances

##### 1.1 Prohibited substances

- None of the "2A, 3A,4A and 5A Prohibited Substances" defined in the "List of Product Environmental Impact Substances" (Attachment 2) shall be contained in parts and materials delivered to Canon.

##### 1.2 Use-restricted substances

- None of the "2B Use-restricted Substances" defined in the "List of Product Environmental Impact Substances" (Attachment 2) shall be contained in parts and materials delivered to Canon after a specified period.

#### 2. Providing chemical substance information

In order to (1) confirm the requirements of the "Prohibited substances" and "Use-restricted substances" in the D 1 above, and to (2) meet the requirements of information provision, reporting or disclosure under relevant laws/regulations or eco-labeling standards, the chemical substance information such as standardized number (e.g., CAS), unique material identifier and concentration for each chemical substance contained in the materials, components and parts for Canon shall be provided in accordance with the substance information communication method that is directed in the section 9 (2)(1).

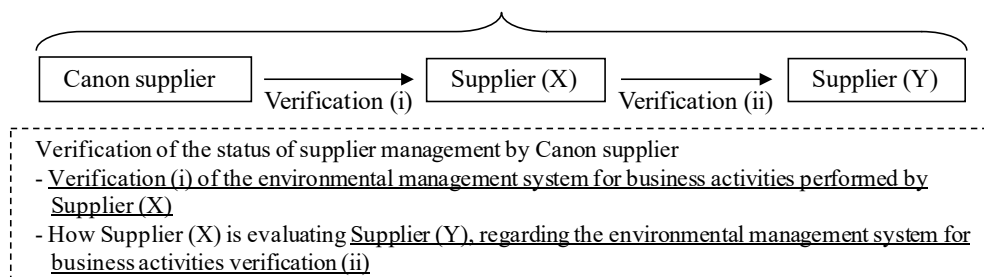
#### 3. Concerning the following chemical substances related to environmental information, when no inclusion is indicated in reply to parts & materials surveys or instructed in specifications (e.g., drawings, delivery specifications), these substances shall not be contained in parts and materials to be delivered to Canon:

- Environmental label substances (Attachment 2 "2D Environmental label substances in plastic exterior enclosure members/cabinets for business machine products")
- Chemical substances for which Canon must comply with customer requirements (Example :Attachment 2 "2E Prohibited substances in LBP (Laser Printer) parts")
- Chemical substances added according to changes in laws and regulations, as well as social trends.

## 8. Explanation of the Requirements

1. Requirements related to an environmental management system for business activities
  - (1) The “construction” of an environmental management system means to document who (“responsibilities”) should draw up guidelines and identify environmental aspects, etc., and how (“procedures”) these tasks should be carried out. The “operation” means to perform activities and keep records in accordance with the determined responsibilities and procedures. “Responsibilities” refer to responsible persons or organizations, such as a committee, etc.
  - (2) When the supplier has already constructed and operated a system toward ISO14001 reduction of environmental burdens, and satisfied the “Requirements” stipulated in the Canon Green Procurement Standards, a new system need not be constructed.
  - (3) To promote global environmental conservation activities, all the suppliers in the supply chain must construct and operate environmental management systems designed to reduce environmental impact in business activities. For this reason, when a Canon supplier (including a trading company) selects or continues dealings with supplier (X), they have to ask this supplier (X) to operate the environmental management system and verify the operation (Requirement A and B). The verification of supplier (X) includes a process to examine how supplier (X) is verifying the environmental management system performed by supplier (Y), who is in the upstream of the supply chain.

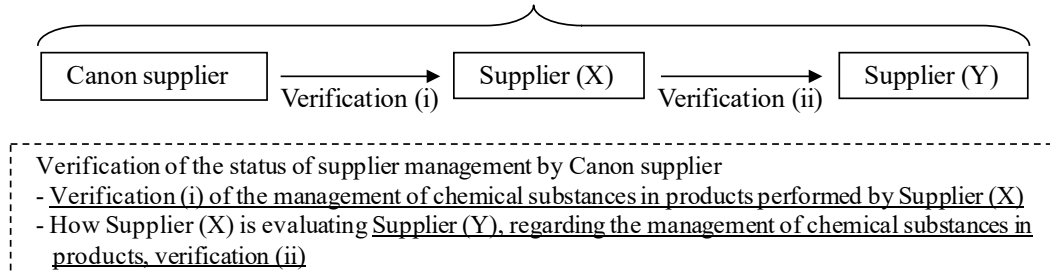
Implementation & operation of system for the environmental management system for business activities



2. Requirements related to the Management of Chemical Substances in Products
  - (1) The “management of chemical substances in products” refers to a system that keeps track of and manages throughout the supply chain chemical substances contained in parts and materials delivered to Canon. This term also means systems established by suppliers to keep track of and manage chemical substances in parts and materials delivered to them from their own suppliers.
  - (2) Refer to the “Guidelines for the Management of Chemical Substances in Products” for the action items related to the management of chemical substances in products. The “Action Details” provide descriptions common to the entire supply chain, with consideration given to varying businesses. When taking action, each company is asked to interpret each item in more specific terms in accordance with the “Sample Answer, note & point of management” and their own situation.

- (3) To ensure information on chemical substances in products, all the suppliers in the supply chain must implement and operate the management of chemical substances in products. For this reason, when a Canon supplier (including a trading company) selects or continues dealings with supplier (X), they have to ask this supplier (X) to operate the management of chemical substances in products, and verify the operation (Requirement C and D). The verification of supplier (X) includes a process to examine how supplier (X) is verifying the management of chemical substances in products performed by supplier (Y), who is in the upstream of the supply chain.

Implementation & operation of system for the management of chemical substances in products



- (4) Suppliers who have already constructed and operated a system such as ISO14001 or ISO9001, are recommended to make full use of their existing management systems.
- (5) Regarding parts and materials that constitute a product to be certified with an environmental label, the standards of the environmental label may prohibit or restrict the use of certain chemical substances, in addition to the product environmental impact substances. There are also chemical substances whose use is prohibited or restricted according to requests from Canon OEM clients. For this reason, when a supplier indicates no inclusion of a chemical substance in reply to a parts and materials survey, the supplier shall continue not to use this substance. Suppliers who deliver such parts and materials to Canon may be instructed not to use concerned chemical substances by means of drawings, delivery specifications, etc.
- Example of an environmental label that specifies substances: Blue Angel standards that business machine products are designed to comply with (Attachment 2 "2D Environmental label substances in plastic exterior enclosure members/cabinets for business machine products")
  - Chemical substances to be managed in line with customer requirements: Parts used in LBP products (Attachment 2 "2E Prohibited substances in LBP (Laser Printer) parts")
3. Notification to Canon
- (1) When an engineering change or a process change, etc. is to be made in the supply chain, notify Canon of the change in advance.
- (2) When either of the following occurs in the supply chain, Canon shall be notified immediately:
- A public institution has ordered the person responsible for an operational site to take measures necessary for making improvement or imposed a penalty, regarding environment-related laws and regulations and other applicable legal requirements that are relevant to the operational site engaged in the development, production, and sales of parts and materials delivered to Canon.
  - Parts and materials delivered to Canon are found not to comply with "D: Requirements Related to Performance of Parts and Materials."

## 9. Evaluation by Canon

### (1) Supplier Environmental Evaluation

#### (1-1) Supplier environmental evaluation procedure

The following are the steps taken for a supplier environmental evaluation regarding "A: Environmental management system for business activities," "B: Performance of business activities," and "C: Management of chemical substances in products" shown in Figure 1 Four frameworks (see "Figure 2 Supplier Environmental Evaluation Flow" ).

- (a) Canon asks each supplier to perform a "self-evaluation" before dealing start. Suppliers are requested to submit the evaluation results at least once in two years after the start of dealings.
- (b) The supplier is requested to perform a self-evaluation on the status of their activities with respect to the "Requirements" and submit the results using the format designated by Canon. Said format may be downloaded from Canon's website.  
In addition to the results of self-evaluation explained, Canon may request suppliers to submit materials that will verify the construction and operation of an "environmental management system for business activities" and "system for management of chemical substances in products".
- (c) Based on the results of self-evaluation submitted by suppliers, Canon evaluates whether the suppliers satisfy the requirements of "A: Environmental management system for business activities", "B: Performance of business activities", and "C: Management of chemical substances in products" shown in Figure 1 and makes a judgment.
- (d) The supplier will be informed of Canon's evaluation results.

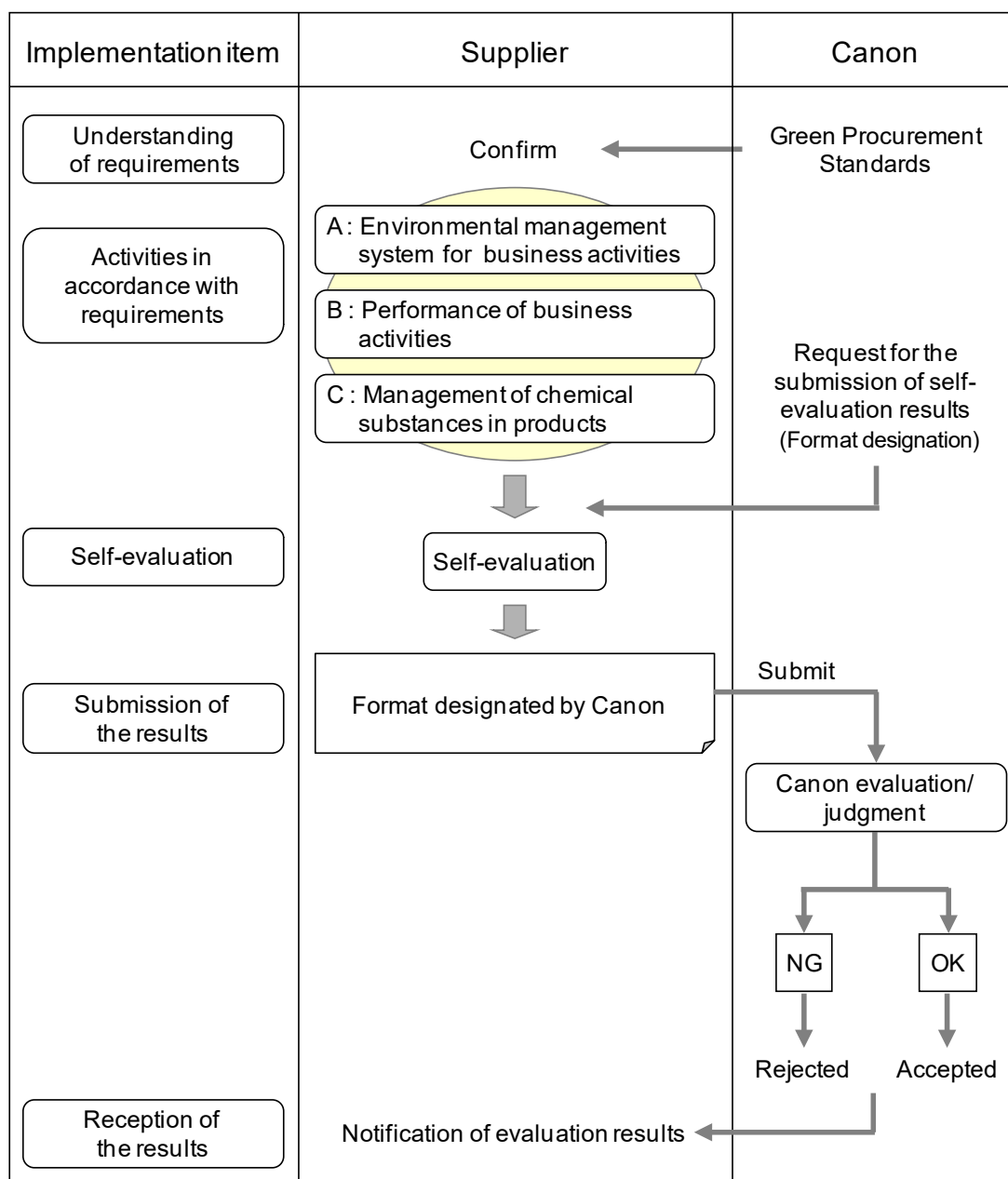


Figure 2; Supplier Environmental Evaluation Flow

## (1-2) Suppliers concerned with “self-evaluation”

## (a) Concerned companies

Companies meeting either of the following conditions are concerned:

## (1) Supplier (Supplier who does business directly with Canon)

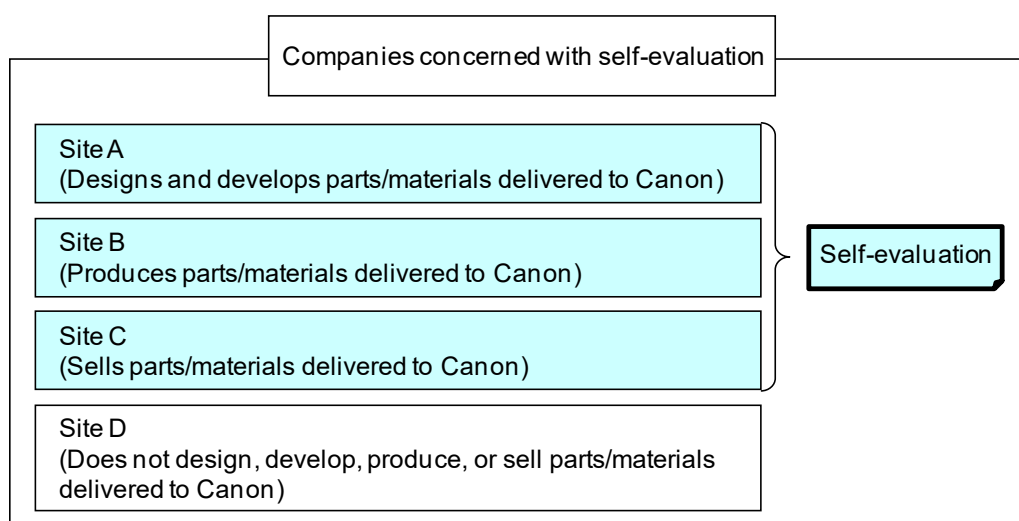
If the supplier is a trading company and currently unable to perform purchasing management in accordance with these Standards, the supplier takes the responsibility for checking the status of supplier management by manufacturers or subcontractor sites/plants that produce parts and materials delivered to Canon, and Canon provides for cooperation in this check for the time being.

## (2) Companies operating throughout the supply chain

- Suppliers manufacturing parts and materials (e.g., resin material, sheet steel, or general-purpose electrical part, etc.) specified by Canon
- Specific companies designated by Canon to consign processing works, etc.

## (b) Concerned sites and plants

All the sites and plants that design, develop, produce, or sell parts and materials delivered to Canon are concerned.



Regarding the evaluation of “C: Management of chemical substances in products” in Figure 1 Four frameworks, if the management of chemical substances in products does not complete within one site (plant), all the concerned sections outside the site (plant) are also subjected to the evaluation.

Example: When a site (plant) has only manufacturing sections and headquarters sections (parent company) select raw materials to be designed and used, the headquarters sections (parent company) are also subject to the evaluation.

When the same system for the management of chemical substances in products is developed and implemented, an evaluation may be performed for the entire group.

## (2) Parts and Materials Evaluation

## (2-1) Parts and materials evaluation procedures

The followings are the procedures of evaluation to be performed on each part and material concerning "D: Performance of parts and materials" shown in Figure 1 (see "Figure 3 Parts and Materials Evaluation Flow").

- (a) Suppliers are asked to verify in advance information on product environmental impact substances in parts and materials delivered to Canon.
- (b) Canon requests each supplier to provide answers to the parts and materials survey through (1) and (2) below.

In addition, we may make a request equivalent to (1) and (2) using different methods/forms.

## (1) "chemSHERPA-AI file" and "chemSHERPA-CI file"

Necessity of each information is as follows when you fill in "chemSHERPA-AI file":

- Compliance (Information on compliance with SCIP included when SVHC are contained): Required
- Composition : Required

Necessity of each information is as follows when you fill in "chemSHERPA-CI file":

- Composition : Required

You may use the data creation support tool provided by chemSHERPA for entry. For detailed methods on providing responses using this tool, please refer to the manual and usage rules provided by chemSHERPA. These will be obtained at the following URL.

<https://chemsherpa.net/english/tool>

## (2) "Canon Survey sheet for packaging" and "Canon's Additional Survey Form"

This survey form will be used to find information required in the following cases, separately from the product environmental impact substances specified in the chemSHERPA file. Canon will request surveys as needed.

- Product environmental impact substances specified in these Standards but not the subject of the chemSHERPA file
- When material information, chemical substance information, etc. related to eco-label certification is necessary  
Examples of required information: environmental label substances in resin covers and casing of business machine products certified by Eco Mark or Blue Angel
- When surveys are necessary to comply with environmental laws and regulations for substances in packaging materials, batteries, and other specific applications.
- When a need arises to obtain environmental information judged necessary according to social trends and changes in laws and regulations
- When measures must be taken to respond to customer requests, etc.

For the detailed method of reply, refer to the "Canon Survey Form Entry Manual" issued separately by Canon.

[https://global.canon/en/procurement/green03.html#annual\\_area](https://global.canon/en/procurement/green03.html#annual_area)

- (c) Suppliers are asked to fill in the requested survey form with their answers and submit it.

If you do not respond to us in the format specified by Canon in (b) above, we may not be able to purchase goods due to difficulties in determining compliance with the requirements.

- (d) When an engineering change or a process change, etc. is to be made, notify Canon of the change in advance. When such a change is likely to alter answers of parts and materials survey, Canon will re-examine the contained chemical substances and re-evaluate product performance.



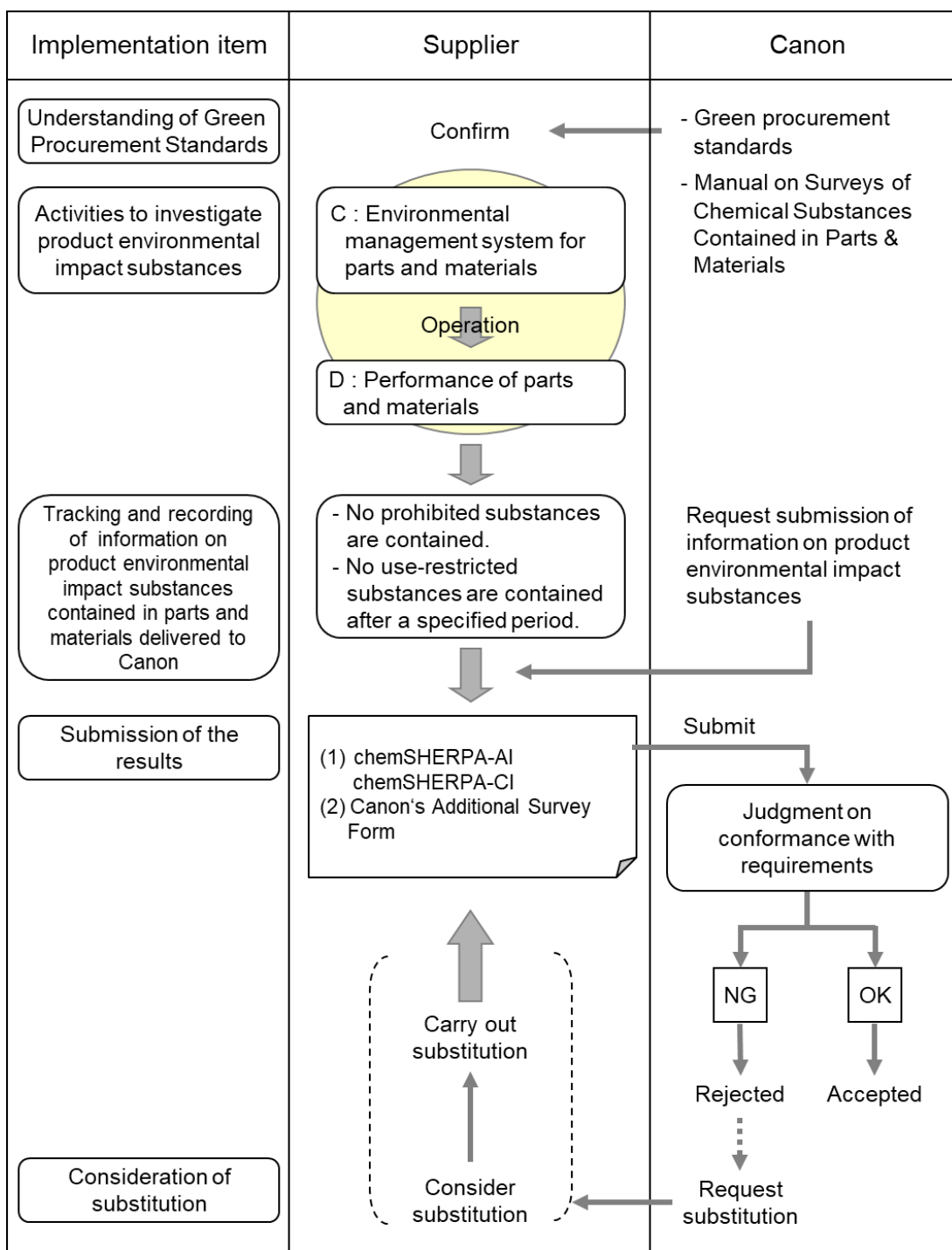


Figure 3; Parts and Materials Evaluation Flow

## 10. Handling of Information

Information provided by suppliers for the purpose of the management of chemical substances in products will be shared only within the Canon group. Information provided by suppliers may be furnished to a non-Canon third party as it was originally provided or in a processed state in the following cases.

- (1) To disclose or provide supplier information to government judicial agencies or administrative agencies based on directives from those agencies.
- (2) To disclose or provide supplier information to an audit corporation who performs an audit based on relevant laws.
- (3) To disclose or provide supplier information to obtain or maintain certifications from a certification authority.
- (4) To disclose or provide supplier information based on a request for disclosure from important customers, corporate investors and citizen groups.

Suppliers who are inconvenienced by the disclosure of this information are asked to contact Canon. For information on the handling of personal information, please see the Canon website.

Note that in the case of (4) above, suppliers will be notified in advance if Canon is to disclose or furnish information as it was originally provided by suppliers to a third party. "In a processed state" means that Canon may edit and furnish information provided by suppliers to a third party as part of Canon product-related information.

## 11. Acknowledgement of Revisions

About Confirmation of Revised Canon Green Procurement Standards\*

1. When revisions (1), and/or (2) are made, we will ask our suppliers who deal directly with Canon to confirm the revision of Canon Green Procurement Standards.
  - (1) Revisions of the requirements
  - (2) Revisions pertaining to "1A Prohibited substances", "2A Prohibited substances", "3A Prohibited substances for Package and Printed matter only", "4A Prohibited substances for in-vehicle product only", "5A Prohibited substances for Leather / Textile products only", "2B Use-restricted substances" (Delivery deadline is within one year). (When substances to be prohibited or restricted are newly added)
2. When revisions (1), (2), and/or (3) are made, confirmation of the revision of the Canon Green Procurement Standards is not required, but the requirements of this Standard, including the amendments, must be complied with.
  - (1) Revisions pertaining to "1B Substances targeted for reduced levels of use", "2B Use-restricted substances" (Delivery date is more than one year), "2C Controlled substances"
  - (2) Revision of supplements for the requirements
  - (3) Corrections of typos

\*Confirmation of Revised Canon Green Procurement Standards is a matter to be implemented by a business partner as confirmation of compliance with this standard when this standard is revised.

## 12. Starting Date for Application

This version of Canon Green Procurement Standards shall start to be applied from September 1st, 2025.

## Major changes in Ver.17.0

### Main text

In 9. Evaluation by Canon - (2) Parts and Materials Evaluation - (c), add the following:  
If you do not respond in the format specified by Canon, there may be a problem in starting the purchase goods

### Appendix 2 List of Product Environmental Impact Substances

Appendix	No.	Substance/Substance group	Changes
2A Prohibited substances	18	Hexabromocyclododecane (HBCDD)	Changed threshold
	-23 -24	- Perfluorooctane sulfonic acid (PFOS) and its salts - PFOS-related substances	Changed threshold
	39	Halogenated Flame Retardants	Moved from Use-restricted substances (Plastic external enclosure of electric and electronic products powered by 120V outlets or battery)
	45	Phenol, Isopropylated Phosphate (3:1) (PIP (3:1))	Changed threshold
	47	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	Changed threshold
5A Prohibited substances for Leather / Textile products only	36	Azocolourants and azodyes which form certain aromatic amines	Changed threshold (Deleted "details of substances")
	-38 -39	- Perfluorohexane acids (PFHxA) and its salts - PFHxA-related substances	Moved from Use-restricted substances (Textiles, leather, furs and hides in clothing and related accessories for the general public and Footwear for the general public)
2B Use-restricted substances	- 1 - 2	- Perfluorohexane acids (PFHxA) and its salts - PFHxA-related substances	Added target (Textiles, leather, furs and hides)
	3	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene](DBDPE)	Changed delivery deadline
	4	Medium-chain chlorinated paraffins (MCCP)(Chlorinated paraffins with carbon chain lengths in the range C14-17 and chlorination levels at or exceeding 45% chlorine by weight)	Moved from Controlled substances
	5	Long-chain (C9-C21) perfluorocarboxylic acids, its salts and related substances	Newly added
2C Controlled substances	19	Per- and poly-fluoroalkyl substances (PFAS)	Added Notes on investigation and promotion of substitution
	21	Colecalciferol	Newly added
Attached Table 2C-1 Controlled substances (REACH Regulation Candidate List of substances of very high	121	Bis(α,α-dimethylbenzyl) peroxide	Newly added
	122	Triphenyl phosphate	Newly added
	123	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	Newly added
	124	O,O,O-triphenyl phosphorothioate	Newly added
	125	Octamethyltrisiloxane	Newly added
	126	Perfluamine	Newly added
2E Prohibited Substances in LBP (Laser Printer) parts	127	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	Newly added
	5	Chlorinated paraffins	Newly added

Documentation, survey sheets (forms) and other materials related to green procurement are available by download from the following URL

English (English and Chinese)

<https://global.canon/en/procurement/green03.html>

Japanese (English, Japanese and Chinese)

<https://global.canon/ja/procurement/green03.html>

### **Inquiries**

Canon's each site of your dealing

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Canon Green Procurement Standards Ver.17.0

Published: Canon Inc. June 2025

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## **Appendix 1 List of Production Environmental Impact Substances**

This Appendix 1 makes a list of management criteria for the production environmental impact substances specified in Canon Green Procurement Standards. The management criteria specified in the “List of Production Environmental Impact Substances” should be satisfied production, and sales of parts and materials delivered to Canon.

1A Prohibited substances

1B Substances targeted for reduced levels of use

**1A Prohibited substances**

**(Chemical substances prohibited to be used production, or sales of parts and materials delivered to Canon.)**

**1A-1 Montreal Protocol (Annex A/B/C/E)**

No.	CAS No.	Substance
1	-	CFCs
2	-	Halon
3	56-23-5	Carbon tetrachloride
4	71-55-6	1,1,1-Trichloroethane
5	-	HCFCs
6	-	HBFCs
7	74-97-5	Bromochloromethane
8	74-83-9	Methyl bromide

**1A-2 Convention concerning safety in the use of asbestos**

No.	CAS No.	Substance
9	-	Asbestos

**1A-3 Stockholm convention on Persistent Organic Pollutants (Annex A/B)**

No.	CAS No.	Substance
10	-	Polychlorinated biphenyls (PCB)
11	-	Polychlorinated naphthalene (2 or more chlorine atoms)
12	118-74-1	Hexachlorobenzene
13	309-00-2	Aldrin
14	60-57-1	Dieldrin
15	72-20-8	Endrin
16	50-29-3	DDT
17	57-74-9	Chlordane
18	76-44-8	Heptachlor
19	8001-35-2	Toxaphene
20	2385-85-5	Mirex
21	87-68-3	Hexachlorobutadiene
22	-	Perfluorooctane sulfonic acid (PFOS) and its salts <sup>a)</sup> Perfluorooctane sulfonyl fluoride (PFOSF)
23	608-93-5	Pentachlorobenzene
24	319-84-6	Alpha hexachlorocyclohexane
25	319-85-7	Beta hexachlorocyclohexane
26	58-89-9	Lindane
27	143-50-0	Chlordecone
28	36355-01-8	Hexabromobiphenyl
29	-	Tetrabromodiphenyl ether and pentabromodiphenyl ether
30	-	Hexabromodiphenyl ether and heptabromodiphenyl ether
31	115-29-7 959-98-8 33213-65-9	Technical endosulfan and its related isomers

**1A-3 Stockholm convention on Persistent Organic Pollutants (Annex A/B)**

No.	CAS No.	Substance
32	25637-99-4 3194-55-6 4736-49-6 65701-47-5 134237-50-6 134237-51-7 134237-52-8 138257-17-7 138257-18-8 138257-19-9 169102-57-2 678970-15-5 678970-16-6 678970-17-7	Hexabromocyclododecane
33	-	Pentachlorophenol and its salts and esters
34	85535-84-8 68920-70-7 71011-12-6 85536-22-7 85681-73-8 108171-26-2	Short-chain chlorinated paraffins (Alkanes, C10-13, chloro): straight-chain chlorinated hydrocarbons with chain lengths ranging from C10 to C13 and a content of chlorine greater than 48 per cent by weight
35	1163-19-5	Decabromodiphenyl ether (commercial mixture, c-decaBDE)
36	115-32-2 10606-46-9	Dicofol
37	-	Perfluorooctanoic acid(PFOA), its salts and PFOA-related compounds
38	-	Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds
39	72-43-5 30667-99-3 76733-77-2 255065-25-9 255065-26-0 59424-81-6 1348358-72-4	Methoxychlor
40	13560-89-9 135821-74-8 135821-03-3	Dechlorane Plus
41	25973-55-1	UV-328
<p>[Note a)]</p> <p>Perfluorooctane sulfonic acid (PFOS) and its salts may be used for the following applications:</p> <ul style="list-style-type: none"> <li>- Manufacture of etching agents (limited to those used in the manufacture of compound semiconductors that enable piezoelectric filters or radio devices to transmit/receive a frequency of 3MHz or above)</li> <li>- Manufacture of resist for semiconductors</li> <li>- Manufacture of photo films for industrial use</li> </ul>		

**1A-4 Prohibited Substances for Preventing Soil Contamination (Canon Standards)**

No.	CAS No.	Substance
(3)	56-23-5	Carbon tetrachloride <sup>a)</sup>
42	107-06-2	1,2-Dichloroethane
43	75-35-4	Vinylidene (di) chloride
44	540-59-0 156-59-2 156-60-5	1,2-Dichloroethylene
45	542-75-6	1,3-dichloropropene
46	75-09-2	Dichloromethane
47	127-18-4	Tetrachloroethylene
(4)	71-55-6	1,1,1-Trichloroethane <sup>a)</sup>
48	79-00-5	1,1,2-Trichloroethane
49	79-01-6	Trichloroethylene
50	71-43-2	Benzene
51	75-01-4	Chloroethylene <sup>b)</sup>
[Note a)] These substances are prohibited by other categories (International treaties). However, these are listed again in the light of importance of preventing soil contamination.		
[Note b)] Chloroethylene is not prohibited as synthetic raw material for resin and/or paint, etc.		

**1A-5 Substances having a significant impact on human health (Canon Standards)**

No.	CAS No.	Substance
52	-	Tetraphosphorus
53	-	Benzidine and its salt
54	-	4-Aminobiphenyl and its salt
55	-	4-Nitrobiphenyl and its salt
56	-	Bis(chloromethyl) ether
57	-	β-Naphthylamine and its salt
Note The above is set as Canon based on the banned substances under the Industrial Safety and Health Act in Japan. The also Industrial Safety and Health Act regulates asbestos and benzene-containing rubber paste (benzene capacity: >5%) as prohibited substances.		

**1B Substances targeted for reduced levels of use**

No applicable substances at present.
[Note] New “substances targeted for reduced levels of use” may be set in the future.



## **Appendix 2 List of Product Environmental Impact Substances**

### 2A Prohibited substances

(Prohibited substances including in product/packing to delivery to Canon)

### 3A Prohibited substances for Package and Printed matter only

### 4A Prohibited substances for in-vehicle product only

### 5A Prohibited substances for Leather / Textile products only

Attached Table 2A-1 Details of Prohibited substances

Attached Table 2A-2 Items for Prohibition of the Use of Heavy Metals in Batteries

Attached Table 2A-3 Exemptions from the EU RoHS Directive

Attached Table 2A-4 Product Categories in EU RoHS Directive

Attached Table 4A-1 Exemptions from the EU ELV Directive

2B Use-restricted substances (For product/package delivery to Canon, Canon should make the deadline, and contain of the substances will be prohibited after deadline.)

2C Controlled substances (Substances which is necessary to report presence, content, and site of use, etc. in the product.)

Attached Table 2C-1 Controlled substances (REACH Regulation Candidate List of substances of very high concern for Authorisation)

2D Environmental label substances in plastic exterior enclosuremembers/cabinets or business machine products (EcoMark, BlueAngel)

2E Prohibited Substances in LBP (Laser Printer) parts

3E Prohibited Substances in packaging LBP (Laser Printer) parts

2F Controlled Substances in Medical Equipment Products

Reference laws and regulations and Numberings

**2A Prohibited Substances (Prohibited Substances including in product/packing to delivery to Canon)**

No.	Substance/Substance group	Applicable Substances CAS No.	Scope	Threshold	Exemption	Reference laws and regulations	ID of IEC62474 DSL
1	Cadmium/Cadmium compounds	-	All, except batteries	0.01 mass% (100ppm) of total Cd in homogenous material	Attached Table 2A-3	1,2,3,4, 5-1	00010
2			Batteries	Refer to Attached Table 2A-2 Items for Prohibition of Use of Heavy Metals in Batteries			00011
3	Chromium (VI) compounds	-	All	0.1 mass% (1000ppm) of total Cr+6 in homogenous material	Attached Table 2A-3	1,2,3,4	00012
4	Lead/Lead compounds	-	All, except batteries	0.1 mass% (1000ppm) of total Pb in homogenous material	Attached Table 2A-3	1,2,3,4, 5-1	00021
5			Consumer products designed or intended primarily for children 12 years of age or younger	0.01 mass% (100ppm) of total Pb in product	-	13	00022
6			Paint and similar surface coatings of toys and other articles intended for use by children	0.009 mass% (90ppm) of surface coating material	-	13	00023
7			Cables/cords with thermoset or thermoplastic coatings	0.03 mass% (300ppm) of surface coating material	-	6	00024
8			Batteries	Refer to Attached Table 2A-2 Items for Prohibition of Use of Heavy Metals in Batteries			00025
9	Mercury/Mercury compounds	-	All, except batteries	Intentionally added or 0.1 mass% (1000ppm) of total Hg in homogenous material	Attached Table 2A-3	1,2,3,4, 5-1,31	00029
10			Batteries	Refer to Attached Table 2A-2 Items for Prohibition of Use of Heavy Metals in Batteries			00030 00132
11	Asbestos	-	All	Intentionally added	-	5-1,7,8	00003
12	Bis(tributyltin) oxide (TBTO)	56-35-9	All	Intentionally added <sup>a)</sup>	-	9	00054
13	Dibutyltin (DBT) compounds	-	All	0.1 mass% (1000ppm) of tin in the part	-	5-1	00014
14	Diocetyl tin (DOT) compounds	-	(1) Textile and leather articles intended to come into contact with the skin, (2) Childcare articles, (3) Two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	0.1 mass% (1000ppm) of tin in the part	-	5-1	00015

**2A Prohibited substances (Prohibited Substances including in product/packing to delivery to Canon)**

No.	Substance/Substance group	Applicable Substances CAS No.	Scope	Threshold	Exemption	Reference laws and regulations	ID of IEC62474 DSL
15	Tri-substituted organostannic compounds	-	All	Intentionally added or 0.1 mass% (1000ppm) of tin in the part	-	5-1,9	00055
16	Polybrominated biphenyls (PBB)	-	All	0.1 mass% (1000ppm) in homogenous material	-	1,2,4	00044
17	Polybrominated diphenyl ethers (PBDE)	-	All	Intentionally added or 0.1 mass% (1000ppm) in homogenous material <sup>a)</sup>	-	1,2,4,9	00045
18	Hexabromocyclododecane (HBCDD)	Refer to Attached Table 2A-1(Details of Prohibited substances1)	All	Intentionally added or 0.0075 mass% (75ppm) of article <sup>a)</sup>	-	9,10	00020
19	Polychlorinated Biphenyls (PCBs) and specific substitutes	Refer to Attached Table 2A-1(Details of Prohibited substances2)	All	Intentionally added <sup>a)</sup>	-	5-1, 7,9,10	00046
20	Polychlorinated Terphenyls (PCTs)	-	All	0.005 mass% (50ppm) in material	-	5-1	00047
21	Polychlorinated naphthalenes	-	All	Intentionally added <sup>a)</sup>	-	9,10	00048
22	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	-	All	Intentionally added or 0.1 mass% (1000ppm) of article <sup>a)</sup>	-	9,10,39	00052
23	Perfluorooctane sulfonic acid (PFOS) and its salts	-	All	Intentionally added or 0.0000025 mass% (25ppb) of PFOS including its salts in article or mixture <sup>a)</sup>	-	9,10,12	00124 00125
24	PFOS-related substances	-	All	Intentionally added or 0.0001 mass% (1000ppb) of one or a combination of PFOS-related substances, in article or mixture	-	10,12	-
25	Fluorinated Greenhouse Gases (PFC, SF <sub>6</sub> , HFC)	Refer to Attached Table 2A-1(Details of Prohibited substances 3)	All	Intentionally added	except for "Scope" in Attached Table 2A-1(Details of Prohibited substances3)	14	00018
26	Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)	Refer to Attached Table 2A-1(Details of Prohibited substances 4)	All	Intentionally added	-	15,16,17	00032
27	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	All	Intentionally added <sup>a)</sup>	-	9	00035
28	Dimethylfumarate (DMF)	624-49-7	All	0.00001 mass% (0.1ppm) of the part	-	5-1	00016

**2A Prohibited substances (Prohibited Substances including in product/packing to delivery to Canon)**

No.	Substance/Substance group	Applicable Substances CAS No.	Scope	Threshold	Exemption	Reference laws and regulations	ID of IEC62474 DSL
29	Polycyclic aromatic hydrocarbons (PAH)	Refer to Attached Table 2A-1 (Details of Prohibited substances 5)	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% (1ppm) of the plastic or rubber part	-	5-1	00108, 00109, 00110, 00111, 00112, 00113, 00114, 00115
30			Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass%(0.5ppm) of the plastic or rubber part	-		00116, 00117, 00118, 00119, 00120, 00121, 00122, 00123
31	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	All	0.1 mass% (1000ppm) in homogenous material	-	1	00038
32	Dibutyl phthalate (DBP)	84-74-2	All	0.1 mass% (1000ppm) in homogenous material	-	1	00039
33	Benzyl butyl phthalate (BBP)	85-68-7	All	0.1 mass% (1000ppm) in homogenous material	-	1	00040
34	Diisobutyl phthalate	84-69-5	All	0.1 mass% (1000ppm) in homogenous material	-	1	00041
35	Phthalates, Selected Group 1 (DEHP, DBP, BBP, DIBP)	117-81-7 84-74-2 85-68-7 84-69-5	(1)Packaging material (2)Promotional materials and Product accessories	0.1 mass% (1000ppm) as the sum of the phthalate concentrations in plasticized material	-	5-1	00036
36	Perfluorooctanoic acid and its salts	-	All	Intentionally added or 0.000025 mass% (25ppb) of PFOA including its salts in article or mixture <sup>a)</sup>	-	9,10	00160
37	PFOA-related substances	-	All	Intentionally added or 0.0001 mass% (1000ppb) of one or a combination of PFOA-related substances, in article or mixture <sup>a)</sup>	-	9,10	00161
38	Halogenated Flame Retardants	-	Enclosure and stand of electronic displays, including televisions, monitors and digital signage displays with a screen area greater than 100 square centimetres	0.1 mass% (1000ppm) of halogen content in homogeneous material	-	45	00171
39		-	Plastic external enclosure of electric and electronic products powered by 120V outlets or battery <sup>b)</sup>	(1) 0.1 mass% (1000ppm) of bromine or (2) 0.1 mass% (1000ppm) of chlorine or (3) 0.1 mass% (1000ppm) of fluorine, and phosphorus less than 0.5% (5000ppm) in homogeneous material	-	51	-

**2A Prohibited substances (Prohibited Substances including in product/packing to delivery to Canon)**

No.	Substance/Substance group	Applicable Substances CAS No.	Scope	Threshold	Exemption	Reference laws and regulations	ID of IEC62474 DSL
40	C9-C14 PFCAs and their salts	-	All	0.0000025 mass% for the sum of C9-C14 PFCAs and their salts in Article or Mixture (25ppb)	-	5-1	00182
41	C9-C14 PFCA-related substances	-	All	0.000026 mass% for the sum of C9-C14 PFCA-related substances in Article or Mixture (260ppb)	-	5-1	00183
42	Perfluorohexane sulfonic acid (PFHxS), its salts	-	All	Intentionally added or 0.0000025 mass% (25ppb) of PFHxS including its salts in article <sup>a)</sup>	-	9,10	00143
43	PFHxS-related compounds	-	All	Intentionally added or 0.0001 mass% (1000ppb) of one or a combination of PFHxS-related compounds, in article	-	10	00205
44	Pentachlorophenol and its salts and esters	-	All	Intentionally added or 0.0005 mass% (5ppm) of PCP including its salts and esters in article or mixture <sup>a)</sup>	-	9,10	00201
45	Phenol, Isopropylated Phosphate (3:1) (PIP (3:1)) <sup>c)</sup>	68937-41-7	All	Intentionally added or 0.1 mass% (1000ppm) of article	-	7	00174
46	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.6,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) <sup>d)</sup>	-	All	Intentionally added or 0.0001 mass% (1ppm) of article <sup>a)</sup>	-	9,10	00147
47	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) <sup>e)</sup>	25973-55-1	All	Intentionally added or 0.0001 mass% (1ppm) of article <sup>a)</sup>	-	9,10	00130

[Notes for 2A as a whole]

- The "Applicable Substance CAS No." column shows CAS No. when substance(s) is specified. The "-" in the column means the substance is defined as substance group.
- The numbers in the "Reference laws and regulations" column correspond to the numbers in Attached "Reference laws and regulations and Numberings". "Reference laws and regulations" in this table do not include all laws, ordinances, and standards to be the basis, but give only examples.

[Note a) on Threshold for Class I Specified Chemical Substances of (JP) Chemical Substances Control Law]

If the relevant chemical substance is contained in trace amounts as a by-product, check the following:

- If the subject is manufactured in Japan, the raw material containing the chemical substance must be "Best available technology (BAT)" or less than the voluntary control value approved by the Ministry of Economy, Trade and Industry.
- If the subject is manufactured outside Japan, it does not fall under the category of "products that cannot be imported if Class I Specified Chemical Substances are used."

[Note b) on Halogenated Flame Retardants]

- "Plastic external enclosure of electric and electronic products powered by 120V outlets or battery (except "Enclosure and stand of electronic displays, including televisions, monitors and digital signage displays with a screen area greater than 100 square centimetres")" can be delivered until 2025/12/31.

[Note c) on Phenol, Isopropylated Phosphate (3:1) (PIP (3:1))]

- Lubricants can be delivered until 2038/11/20.

[Note d) on Dechlorane Plus]

- Medical imaging applications and radiotherapy devices/installations can be delivered until 2029/2/26. (Delivery deadline is subject to change due to legal requirements.)

[Note e) on UV-328]

- Triacetyl cellulose film in polarisers can be delivered until 2029/2/26. (Delivery deadline is subject to change due to legal requirements.)

**3A Prohibited substances for Package and Printed matter only**

Substance/Substance groups listed in the table below apply in addition to 2A for Package and Printed matter only.

No.	Substance/Substance group	Applicable Substances CAS No.	Scope	Threshold	Exemption	Reference laws and regulations
1	4 heavy metals: Cadmium and its compounds /Hexavalent chromium compounds /Lead and its compounds /Mercury and its compounds	-	Package	Intentionally added or Sum of cadmium, hexavalent chromium, lead and mercury contained in excess of 0.01 mass% (100ppm) by weight in homogeneous material	-	23,24
2	Arsenic compounds	-	Wood preservative	Intentionally added	-	5-1
3	Cobalt dichloride	-	Indicator in a drying agent	Intentionally added	-	5-1
4	Polyvinyl chloride/ polyvinylidene chloride	-	Package	Intentionally added	-	25
5	Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings	-	Package, Printed matter	0.1 mass%(1000ppm) in ink	-	47
6	Mineral oil aromatic hydrocarbons (MOAH) comprising 3 to 7 aromatic rings	-	Package, Printed matter	0.0001 mass% (1ppm) in ink	-	47
7	Mineral oil saturated hydrocarbons (MOSH) with 16 to 35 carbon atoms	-	Package, Printed matter	0.1 mass% (1000ppm) in ink	-	47

[Notes for 3A as a whole]

- The "Applicable Substance CAS No." column shows CAS No. when substance(s) is specified. The "-" in the column means the substance is defined as substance group.

- The numbers in the "Reference laws and regulations" column correspond to the numbers in Attached "Reference laws and regulations and Numberings". "Reference laws and regulations" in this table do not include all laws, ordinances, and standards to be the basis, but give only examples.

**4A Prohibited Substances for in-vehicle product only**

Substance/Substance groups listed in the table below apply in addition to 2A for in-vehicle product only.

No.	Substance/ Substance group	Applicable Substances CAS No.	Scope	Threshold	Exemption	Reference laws and regulations
1	Cadmium/Cadmium compounds	-	in-vehicle product	0.01 mass% (100ppm) of total Cd in homogenous material	Attached Table 4A-1	44
2	Chromium (VI) compounds	-	in-vehicle product	0.1 mass% (1000ppm) of total Cr+6 in homogenous material	Attached Table 4A-1	44
3	Lead/Lead compounds	-	in-vehicle product	0.1 mass% (1000ppm) of total Pb in homogenous material	Attached Table 4A-1	44
4	Mercury/Mercury compounds	-	in-vehicle product	0.1 mass% (1000ppm) of total Hg in homogenous material	Attached Table 4A-1	44

[Notes for 4A as a whole]

- The "Applicable Substance CAS No." column shows CAS No. when substance(s) is specified. The "-" in the column means the substance is defined as substance group.

- The numbers in the "Reference laws and regulations" column correspond to the numbers in Attached "Reference laws and regulations and Numberings". "Reference laws and regulations" in this table do not include all laws, ordinances, and standards to be the basis, but give only examples.

**5A Prohibited substances for Leather / Textile products only**

Substance/Substance groups listed in the table below apply in addition to 2A for Leather / Textile products only.

No.	Substance/ Substance group	Applicable Substances CAS No.	Scope	Threshold	Exemption	Reference laws and regulations	ID of IEC62474 DSL
1	Cadmium/Cadmium compounds	-	(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 (3) Footwear	0.0001 mass% (1ppm) of total Cd in material	-	5-1	-
2	Chromium (VI) compounds	-		0.0001 mass% (1ppm) of total Cr+6 in material	-	5-1	-
3	Arsenic compounds	-		0.0001 mass% (1ppm) of total As in material	-	5-1	-
4	Lead/Lead compounds	-		0.0001 mass% (1ppm) of total Pb in material	-	5-1	-
5	Benzene	71-43-2		0.0005 mass% (5ppm) in material	-	5-1	-
6	Benzo[a]anthracene	56-55-3		0.0001 mass% (1ppm) in material	-	5-1	-
7	Benzo[b]fluoranthene	205-99-2		0.0001 mass% (1ppm) in material	-	5-1	-
8	Benzo[a]pyrene	50-32-8		0.0001 mass% (1ppm) in material	-	5-1	-
9	Benzo[e]pyrene	192-97-2		0.0001 mass% (1ppm) in material	-	5-1	-
10	Benzo[j]fluoranthene	205-82-3		0.0001 mass% (1ppm) in material	-	5-1	-
11	Benzo[k]fluoranthene	207-08-9		0.0001 mass% (1ppm) in material	-	5-1	-
12	Chrysene	218-01-9		0.0001 mass% (1ppm) in material	-	5-1	-
13	Dibenz[a,h]anthracene	53-70-3		0.0001 mass% (1ppm) in material	-	5-1	-
14	p-Chlorobenzotrichloride	5216-25-1		0.0001 mass% (1ppm) in material	-	5-1	-
15	Benzotrichloride	98-07-7		0.0001 mass% (1ppm) in material	-	5-1	-
16	Benzyl chloride	100-44-7		0.0001 mass% (1ppm) in material	-	5-1	-
17	Formaldehyde	50-00-0		0.0075 mass% (75ppm) in material	-	5-1	00019
18	Di-C6-8-branched alkylesters, C7-rich	71888-89-6		0.1 mass% (1000ppm) in material <sup>a)</sup>	-	5-1	-
19	Bis(2-methoxyethyl) phthalate	117-82-8		0.1 mass% (1000ppm) in material <sup>a)</sup>	-	5-1	-
20	Diisopentylphthalate	605-50-5		0.1 mass% (1000ppm) in material <sup>a)</sup>	-	5-1	-
21	Di-n-pentyl phthalate (DPP)	131-18-0		0.1 mass% (1000ppm) in material <sup>a)</sup>	-	5-1	-
22	Di-n-hexyl phthalate (DnHP)	84-75-3		0.1 mass% (1000ppm) in material <sup>a)</sup>	-	5-1	-
23	1-methyl-2-pyrrolidone	872-50-4		0.3 mass% (3000ppm) in material	-	5-1	-
24	N,N-Dimethylacetamide	127-19-5		0.3 mass% (3000ppm) in material	-	5-1	-
25	N,N-Dimethylformamide	68-12-2		0.3 mass% (3000ppm) in material	-	5-1	-
26	1,4,7,8-Tetraaminoanthraquinone	2475-45-8		0.005 mass% (50ppm) in material	-	5-1	-

**5A Prohibited substances for Leather / Textile products only**

No.	Substance/ Substance group	Applicable Substances CAS No.	Scope	Threshold	Exemption	Reference laws and regulations	ID of IEC62474 DSL
27	Benzenamine, 4,4'-(4- iminocyclohexa-2,5- dienyldienemethylene)dia niline hydrochloride	569-61-9	(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 (3) Footwear	0.005 mass% (50ppm) in material	-	5-1	-
28	[4-[4,4- bis(dimethylamino)benz ydrylidene]cyclohexa-2,5- dien-1- ylidene]dimethylammoniu m chloride	548-62-9		0.005 mass% (50ppm) in material	-	5-1	-
29	4-Chloro-o-toluidine hydrochloride	3165-93-3		0.003 mass% (30ppm) in material	-	5-1	-
30	2- Naphthylammoniumaceta te	553-00-4		0.003 mass% (30ppm) in material	-	5-1	-
31	4-Methoxy-m- phenylenediamine 2,4- diaminoanisole sulphate	39156-41-7		0.003 mass% (30ppm) in material	-	5-1	-
32	2,4,5-trimethylaniline hydrochloride	21436-97-5		0.003 mass% (30ppm) in material	-	5-1	-
33	Quinoline	91-22-5		0.005 mass% (50ppm) in material	-	5-1	-
34	Chlorinated phenols	-	Leather products (natural leather and natural fur occupying more than 60% of the surface of the product)	0.0005 mass% (5ppm) in homogeneous material	-	50	-
35	Tri-substituted organostannic compounds	-	Leather products (natural leather, artificial leather and natural fur occupying more than 60% of the surface of the product)	0.0001 mass% (1ppm) in coating and printing	-	50	-
36	Azocolourants and azodyes which form certain aromatic amines	-	Textiles and Leather	Intentionally added	-	5-1	00004
37	Per- and poly-fluoroalkyl substances (PFAS)	-	Textile article	Intentionally added or 0.005 mass% (50ppm) of total organic fluorine in the part <sup>b)</sup>	-	49	-
38	Perfluorohexane acids (PFHxA) and its salts <sup>c)</sup>	-	(1) Textiles, leather, furs and hides in clothing and related accessories for the general public	0.0000025 mass% (25ppb) of PFHxA including its salts in homogeneous material	-	5-1	-
39	PFHxA-related substances <sup>c)</sup>	-	(2) Footwear for the general public	0.0001 mass% (1000ppb) of one or a combination of PFHxA-related substances, in homogeneous material	-	5-1	-

[Notes for 5A as a whole]

- The "Applicable Substance CAS No." column shows CAS No. when substance(s) is specified. The "-" in the column means the substance is defined as substance group.
- The numbers in the "Reference laws and regulations" column correspond to the numbers in Attached "Reference laws and regulations and Numberings". "Reference laws and regulations" in this table do not include all laws, ordinances, and standards to be the basis, but give only examples.

[Note a) on Threshold]

- This threshold is the sum of Individually or in combination with other phthalates in this entry or in other entries of Annex XVII that are classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 in any of the hazard classes carcinogenicity, germ cell mutagenicity or reproductive toxicity, category 1A or 1B.

[Note b) on Threshold]

- The threshold is "Intentionally added or 0.01 mass% (100ppm) of total organic fluorine in the part" until 2025/12/31.

[Note c) on PFHxA and its salts and PFHxA-related substances]

- They can be delivered until 2025/10/9.



**Attached Table 2A-1 Details of Prohibited substances 1**

No.	Substance/ Substance group	Applicable substances	CAS No.
18	Hexabromocyclododecane (HBCDD)	Hexabromocyclododecane (HBCDD)	25637-99-4
		1,2,5,6,9,10-hexabromocyclododecane	3194-55-6
		$\alpha$ -hexabromocyclododecane	134237-50-6
		$\beta$ -hexabromocyclododecane	134237-51-7
		$\gamma$ -hexabromocyclododecane	134237-52-8

**Attached Table 2A-1 Details of Prohibited substances 2**

No.	Substance/ Substance group	Applicable substances	CAS No.
19	Polychlorinated Biphenyls (PCBs) and specific substitutes	Polychlorinated biphenyls (all isomers and homologs)	1336-36-3
		Monomethyl-tetrachloro-diphenyl methane (Ugilec 141)	76253-60-6
		Monomethyl-dichloro-diphenyl methane (Ugilec 121, Ugilec 21)	81161-70-8
		Monomethyl-dibromo-diphenyl methane (DBBT)	99688-47-8

Attached Table 2A-1 Details of Prohibited substances 3

No.	Substance/ Substance group	Applicable substances	CAS No.
25	Fluorinated Greenhouse Gases (PFC, SF <sub>6</sub> , HFC)	Tetrafluoromethane (PFC-14)	75-73-0
		Hexafluoroethane (PFC-116)	76-16-4
		Octafluoropropane (PFC-218)	76-19-7
		Decafluorobutane (PFC-31-10)	355-25-9
		Dodecafluoropentane (PFC41-12)	678-26-2
		Tetradecafluorohexane (PFC-51-14)	355-42-0
		Octafluorocyclobutane (PFC-c318)	115-25-3
		Sulfur hexafluoride (SF <sub>6</sub> )	2551-62-4
		Trifluoromethane (HFC-23)	75-46-7
		Difluoromethane (HFC-32)	75-10-5
		Methyl fluoride (HFC-41)	593-53-3
		2H,3H-Decafluoropentane (HFC-43-10mee)	138495-42-8
		Pentafluoroethane (HFC-125)	354-33-6
		1,1,2,2-Tetrafluoroethane (HFC-134)	359-35-3
		1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2
		1,1-Difluoroethane (HFC-152a)	75-37-6
		1,1,2-Trifluoroethane (HFC-143)	430-66-0
		1,1,1-Trifluoroethane (HFC-143a)	420-46-2
		2H-Heptafluoropropane (HFC-227ea)	431-89-0
		1,1,1,2,2,3-Hexafluoropropane (HFC-236cb)	677-56-5
		1,1,1,2,3,3-Hexafluoropropane (HFC-236ea)	431-63-0
		1,1,1,3,3,3-Hexafluoropropane (HFC-236fa)	690-39-1
		1,1,2,2,3-Pentafluoropropane (HFC-245ca)	679-86-7
		1,1,1,3,3-Pentafluoropropane (HFC-245fa)	460-73-1
		1,1,1,3,3-Pentafluorobutane (HFC-365mfc)	406-58-6
<p>[Scope]</p> <p>When the following substances are used intentionally for the specific uses respectively.</p> <p>1) PFCs, HFCs, SF<sub>6</sub></p> <ul style="list-style-type: none"><li>- Non-refillable containers, Windows, Footwear, Tires</li><li>- One component foams (except where required to meet EU national safety standards)</li></ul> <p>2) HFCs, PFCs</p> <ul style="list-style-type: none"><li>- Non-confined direct evaporation systems containing refrigerants</li></ul> <p>3) PFCs, HFC-23</p> <ul style="list-style-type: none"><li>- Fire protection equipments</li></ul> <p>4) HFCs (GWP<sup>a)</sup> 150 or higher)</p> <ul style="list-style-type: none"><li>- New type of aerosol (a haze generator for entertainment or decoration)</li><li>- Household refrigerators and freezers</li><li>- Industrial aerosol products</li><li>- Foam (extruded polystyrene) used for fixed refrigeration equipment (GWP2500 or higher), commercial refrigerators and freezers (GWP2500 or higher), mobile indoor air conditioners, insulation and soundproofing, etc.</li><li>- Commercial refrigerators and freezers (GWP less than 2500), centralized commercial refrigeration units of 40 kW or more</li><li>- Foams used for insulation, soundproofing, etc. (other forms)</li><li>- Split air conditioners containing less than 3 kg of F gas (GWP750 or greater)</li></ul> <p>[Note]</p> <p>"GWP" means Global Warming Potential.</p>			

Attached Table 2A-1 Details of Prohibited substances 4

No.	Substance/ Substance group	Montreal Protocol Annex A				
26	Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)	Group I	CFCl <sub>3</sub> (CFC-11)	Group II	CF <sub>2</sub> BrCl(halon-1211)	
			CF <sub>2</sub> Cl <sub>2</sub> (CFC-12)		CF <sub>3</sub> Br(halon-1301)	
			C <sub>2</sub> F <sub>3</sub> Cl <sub>3</sub> (CFC-113)		C <sub>2</sub> F <sub>4</sub> Br <sub>2</sub> (halon-2402)	
			C <sub>2</sub> F <sub>4</sub> Cl <sub>2</sub> (CFC-114)	—	—	
			C <sub>2</sub> F <sub>5</sub> Cl(CFC-115)	—	—	
		Montreal ProtocolAnnex B				
		Group I	CF <sub>3</sub> Cl(CFC-13)	Group I	C <sub>3</sub> F <sub>3</sub> Cl <sub>5</sub> (CFC-213)	
			C <sub>2</sub> FCI <sub>5</sub> (CFC-111)		C <sub>3</sub> F <sub>4</sub> Cl <sub>4</sub> (CFC-214)	
			C <sub>2</sub> F <sub>2</sub> Cl <sub>4</sub> (CFC-112)		C <sub>3</sub> F <sub>5</sub> Cl <sub>3</sub> (CFC-215)	
			C <sub>3</sub> FCI <sub>7</sub> (CFC-211)		C <sub>3</sub> F <sub>6</sub> Cl <sub>2</sub> (CFC-216)	
			C <sub>3</sub> F <sub>2</sub> Cl <sub>6</sub> (CFC-212)		C <sub>3</sub> F <sub>7</sub> Cl(CFC-217)	
		Group II	CCl <sub>4</sub> Carbon tetrachloride			
		Group III	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> 1,1,1-trichloroethane (methylchloroform) Note : This does not contain 1,1,2-trichloroethane.			
		Montreal Protocol Annex C				
		—	—			Number of isomers
		Group I	CHFCI <sub>2</sub> (HCFC-21)	1		
			CHF <sub>2</sub> Cl(HCFC-22)	1		
			CH <sub>2</sub> FCI(HCFC-31)	1		
			C <sub>2</sub> HFCl <sub>4</sub> (HCFC-121)	2		
			C <sub>2</sub> HF <sub>2</sub> Cl <sub>3</sub> (HCFC-122)	3		
			C <sub>2</sub> HF <sub>3</sub> Cl <sub>2</sub> (HCFC-123)	3		
			CHCl <sub>2</sub> CF <sub>3</sub> (HCFC-123) <sup>a)</sup>	—		
			C <sub>2</sub> HF <sub>4</sub> Cl(HCFC-124)	2		
			CHFClCF <sub>3</sub> (HCFC-124) <sup>a)</sup>	—		
			C <sub>2</sub> H <sub>2</sub> FCI <sub>3</sub> (HCFC-131)	3		
			C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> Cl <sub>2</sub> (HCFC-132)	4		
			C <sub>2</sub> H <sub>2</sub> F <sub>3</sub> Cl(HCFC-133)	3		
			C <sub>2</sub> H <sub>3</sub> FCI <sub>2</sub> (HCFC-141)	3		
			CH <sub>3</sub> CFCl <sub>2</sub> (HCFC-141b) <sup>a)</sup>	—		
			C <sub>2</sub> H <sub>3</sub> F <sub>2</sub> Cl(HCFC-142)	3		
			CH <sub>3</sub> CF <sub>2</sub> Cl(HCFC-142b) <sup>a)</sup>	—		
			C <sub>2</sub> H <sub>4</sub> FCI(HCFC-151)	2		
			C <sub>3</sub> HFCl <sub>6</sub> (HCFC-221)	5		
			C <sub>3</sub> HF <sub>2</sub> Cl <sub>5</sub> (HCFC-222)	9		
			C <sub>3</sub> HF <sub>3</sub> Cl <sub>4</sub> (HCFC-223)	12		
			C <sub>3</sub> HF <sub>4</sub> Cl <sub>3</sub> (HCFC-224)	12		
			C <sub>3</sub> HF <sub>5</sub> Cl <sub>2</sub> (HCFC-225)	9		
			CF <sub>3</sub> CF <sub>2</sub> CHCl <sub>2</sub> (HCFC-225ca) <sup>a)</sup>	—		
			CF <sub>2</sub> ClCF <sub>2</sub> CHClF(HCFC-225cb) <sup>a)</sup>	—		
			C <sub>3</sub> HF <sub>6</sub> Cl(HCFC-226)	5		
C <sub>3</sub> H <sub>2</sub> FCI <sub>5</sub> (HCFC-231)	9					
C <sub>3</sub> H <sub>2</sub> F <sub>2</sub> Cl <sub>4</sub> (HCFC-232)	16					
C <sub>3</sub> H <sub>2</sub> F <sub>3</sub> Cl <sub>3</sub> (HCFC-233)	18					
C <sub>3</sub> H <sub>2</sub> F <sub>4</sub> Cl <sub>2</sub> (HCFC-234)	16					
C <sub>3</sub> H <sub>2</sub> F <sub>5</sub> Cl(HCFC-235)	9					
C <sub>3</sub> H <sub>3</sub> FCI <sub>4</sub> (HCFC-241)	12					
C <sub>3</sub> H <sub>3</sub> F <sub>2</sub> Cl <sub>3</sub> (HCFC-242)	18					
C <sub>3</sub> H <sub>3</sub> F <sub>3</sub> Cl <sub>2</sub> (HCFC-243)	18					
C <sub>3</sub> H <sub>3</sub> F <sub>4</sub> Cl(HCFC-244)	12					
C <sub>3</sub> H <sub>4</sub> FCI <sub>3</sub> (HCFC-251)	12					
C <sub>3</sub> H <sub>4</sub> F <sub>2</sub> Cl <sub>2</sub> (HCFC-252)	16					
C <sub>3</sub> H <sub>4</sub> F <sub>3</sub> Cl(HCFC-253)	12					
C <sub>3</sub> H <sub>5</sub> FCI <sub>2</sub> (HCFC-261)	9					
C <sub>3</sub> H <sub>5</sub> F <sub>2</sub> Cl(HCFC-262)	9					
C <sub>3</sub> H <sub>6</sub> FCI(HCFC-271)	5					

**Attached Table 2A-1 Details of Prohibited substances 4**

Annex C - Table E-1 Details of Ozone Depleting Substances							
No.	Substance/ Substance group	Montreal Protocol Annex C					
26	Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)	—	—	Number of isomers	—	Number of isomers	
		Group II	CH <sub>2</sub> FBr <sub>2</sub>	1	CH <sub>2</sub> FBr	1	
			CHF <sub>2</sub> Br(HBFC-22B1)	1	C <sub>2</sub> H <sub>2</sub> FBr <sub>4</sub>	2	
			C <sub>2</sub> HF <sub>2</sub> Br <sub>3</sub>	3	C <sub>2</sub> HF <sub>3</sub> Br <sub>2</sub>	3	
			C <sub>2</sub> HF <sub>4</sub> Br	2	C <sub>2</sub> H <sub>2</sub> FBr <sub>3</sub>	3	
			C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>2</sub>	4	C <sub>2</sub> H <sub>2</sub> F <sub>3</sub> Br	3	
			C <sub>2</sub> H <sub>3</sub> FBr <sub>2</sub>	3	C <sub>2</sub> H <sub>3</sub> F <sub>2</sub> Br	3	
			C <sub>2</sub> H <sub>4</sub> FBr	2	C <sub>3</sub> HFBr <sub>6</sub>	5	
			C <sub>3</sub> HF <sub>2</sub> Br <sub>5</sub>	9	C <sub>3</sub> HF <sub>3</sub> Br <sub>4</sub>	12	
			C <sub>3</sub> HF <sub>4</sub> Br <sub>3</sub>	12	C <sub>3</sub> HF <sub>5</sub> Br <sub>2</sub>	9	
			C <sub>3</sub> HF <sub>6</sub> Br	5	C <sub>3</sub> H <sub>2</sub> FBr <sub>5</sub>	9	
			C <sub>3</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>4</sub>	16	C <sub>3</sub> H <sub>2</sub> F <sub>3</sub> Br <sub>3</sub>	18	
			C <sub>3</sub> H <sub>2</sub> F <sub>4</sub> Br <sub>2</sub>	16	C <sub>3</sub> H <sub>2</sub> F <sub>5</sub> Br	8	
			C <sub>3</sub> H <sub>3</sub> FBr <sub>4</sub>	12	C <sub>3</sub> H <sub>3</sub> F <sub>2</sub> Br <sub>3</sub>	18	
			C <sub>3</sub> H <sub>3</sub> F <sub>3</sub> Br <sub>2</sub>	18	C <sub>3</sub> H <sub>3</sub> F <sub>4</sub> Br	12	
			C <sub>3</sub> H <sub>4</sub> FBr <sub>3</sub>	12	C <sub>3</sub> H <sub>4</sub> F <sub>2</sub> Br <sub>2</sub>	16	
			C <sub>3</sub> H <sub>4</sub> F <sub>3</sub> Br	12	C <sub>3</sub> H <sub>5</sub> FBr <sub>2</sub>	9	
			C <sub>3</sub> H <sub>5</sub> F <sub>2</sub> Br	9	C <sub>3</sub> H <sub>6</sub> FBr	5	
		Group III	CH <sub>2</sub> BrCl Bromochloromethane				
		Montreal Protocol Annex E					
		Group I	CH <sub>3</sub> Br Methylbromide				

[Note a)]

- These are substances which have the highest possibility of being used commercially.

**Attached Table 2A-1 Details of Prohibited substances 5**

No.	Substance/ Substance group	Applicable substances	CAS No.	ID of IEC62474 DSL
29,30	Polycyclic aromatic hydrocarbons (PAH)	Benzo[a]pyrene (BaP)	50-32-8	00108
				00116
		Benzo[e]pyrene (BeP)	192-97-2	00109
				00117
		Benzo[a]anthracene (BaA)	56-55-3	00110
				00118
		Chrysen (CHR)	218-01-9	00111
				00119
		Benzo[b]fluoranthene (BbFA)	205-99-2	00112
				00120
		Benzo[j]fluoranthene (BjFA)	205-82-3	00113
				00121
		Benzo[k]fluoranthene (BkFA)	207-08-9	00114
				00122
		Dibenzo[a,h]anthracene,(DBAhA)	53-70-3	00115
				00123

**Attached Table 2A-2 Items for Prohibition of Use of Heavy Metals in Batteries**

Attached Table 2A-2 Items for Prohibition of Use of Heavy Metals in Batteries				
No.	Substance Group	Classification of batteries	Applicable range (Threshold level)	Reference laws and regulations
2	Cadmium/iCadmium compounds	A. All batteries except those indicated in B/C	Batteries containing equal to or more than 0.002% by weight (20ppm) of cadmium <Exemption> The battery of the use of following 1 and 2 1) Emergency and warning system including emergency lamps 2) Medical equipment	26,27,28
		B. Manganese battery, Alkaline battery	Batteries containing equal to or more than 0.001% by weight (10ppm) of cadmium	
		C.Nickel hydride (Ni-MH) secondary battery (excluding Button battery)	Batteries containing equal to or more than 0.001% by weight (10ppm) of cadmium	26,28
8	Lead/Lead compounds	A. All batteries except those indicated in B	Batteries containing equal to or more than 0.01% by weight (100ppm) of lead	26, 27,29,30
		B. Alkaline battery	Batteries containing equal to or more than 0.004% by weight (40ppm) of lead	
10	Mercury/Mercury compounds	A. All batteries except those indicated in B to D	Batteries containing equal to or more than 0.0005% by weight (5ppm) of mercury	26,27,28, 31,32,33, 34,35,36, 37,38
		B. Manganese battery, Alkaline battery	1) Intentionally uadded 2) Batteries containing equal to or more than 0.0001% by weight (1ppm) of mercury or equal to or more than 0.0005% by weight (5ppm) of mercury in homogenous material	
		C.Nickel hydride (Ni-MH) secondary battery (excluding Button battery)	Batteries containing equal to or more than 0.0001% by weight (1ppm) of mercury or equal to or more than 0.0005% by weight (5ppm) of mercury in homogenous material	
		D.Mercury oxide cells, Mercury oxide button cells, Button-type air-zinc cell battery, Button-type silver oxide cell battery, All button batteries used in consumer products (excluding Alkaline button battery, Manganese button battery)	Intentionally uadded When the substance is contained as impurity, item A above shall apply	
<div>[Note Definition of batteries]</div> <div>1) A manganese battery: A battery that consists of a manganese dioxide positive electrode, a zinc negative electrode, and a non-alkaline electrolyte</div> <div>2) An alkaline battery: A battery that consists of a manganese dioxide positive electrode, a zinc negative electrode, and an alkaline electrolyte</div> <div>3) A nickel hydride (Ni-MH) secondary battery: A battery that consists of a nickel oxide positive electrode, a hydrogen storing alloy negative electrode, and an alkaline electrolyte</div> <div>4) A mercury oxide cell: A battery in which a mercuric-oxide electrode is used</div>				

**Attached Table 2A-3 Exemptions from the EU RoHS Directive**

Refer to the "Exemption Lists" on the IEC 62474 site below for information of RoHS exemption (application, target substance group, category).

<https://std.iec.ch/iec62474/iec62474.nsf>

Note for following when looking up the IEC62474 Exemption Lists

- Refer to the "EU-RoHS-AnnexIII" List for the exemptions common to all categories set out in Annex III of the EU RoHS Directive.
- Refer to the "EU-RoHS-AnnexIV" List for the exemptions of Categories 8 and 9 set out in Annex IV of the EU RoHS Directive.
- IEC 62474 Exemption Lists are published based on Official Journal.
- Regarding Expiry Date, please check the latest information at the European Commission site below.

[https://ec.europa.eu/environment/topics/waste-and-recycling/rohs-directive/implementation-rohs-directive\\_en](https://ec.europa.eu/environment/topics/waste-and-recycling/rohs-directive/implementation-rohs-directive_en)

**Attached Table 2A-4 Product categories in EU RoHS Directive**

The EU RoHS Directive contains the table of categories shown below.

Category 1	Large household appliances
Category 2	Small household appliances
Category 3	IT and telecommunications equipment.
Category 4	Consumer equipment
Category 5	Lightning equipment
Category 6	Electrical and electronic tools
Category 7	Toys, leisure and sports equipment.
Category 8	Medical device
Category 9	Monitoring and control instruments including industrial monitoring and control instruments.
Category 10	Automatic dispensers
Category 11	Other EEE not covered by any of the categories above

**Attached Table 4A-1 Exemptions from the EU ELV Directive****No.3 Lead/Lead compounds****Lead as an alloying element**

No.	Materials and Components	Scope and expiry date of the exemption
1(a)	Steel for machining purposes and batch hot dip galvanised steel components containing up to 0.35 % lead by weight	—
1(b)	Continuously galvanised steel sheet containing up to 0.35 % lead by weight	Vehicles type-approved before 1 January 2016 and spare parts for these vehicles
2(a)	Aluminium for machining purposes with a lead content up to 2 % by weight	As spare parts for vehicles put on the market before 1 July 2005
2(b)	Aluminium with a lead content up to 1.5 % by weight	As spare parts for vehicles put on the market before 1 July 2008
2(c)(i)	Aluminium alloys for machining purposes with a lead content up to 0.4 % by weight	Vehicles type-approved before 1 January 2028 and spare parts for these vehicles
2(c)(ii)	Aluminium alloys not included in entry 2(c)(i) with a lead content up to 0.4 % by weight* *Applies to aluminium alloys where lead is not intentionally introduced but is present due to the use of recycled aluminium.	This exemption shall be reviewed in 2024.
3	Copper alloys containing up to 4 % lead by weight	This exemption shall be reviewed in 2025.
4(a)	Bearing shells and bushes	As spare parts for vehicles put on the market before 1 July 2008
4(b)	Bearing shells and bushes in engines, transmissions and air conditioning compressors	As spare parts for vehicles put on the market before 1 July 2011

**No.3 Lead/Lead compounds****Lead and lead compounds in components**

No.	Materials and Components	Scope and expiry date of the exemption
5(a)	Lead in batteries in high-voltage systems* that are used only for propulsion in M1 and N1 vehicles * Systems that have a voltage of > 75 V DC as defined in Directive 2006/95/EC of the European Parliament and of the Council of 12 December 2006 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.	Vehicles type-approved before 1 January 2019 and spare parts for these vehicles
5(b)(i)	Lead in batteries: (1) used in 12 V applications (2) used in 24 V applications in special purpose vehicles as defined in Article 3 of Regulation (EU) 2018/858 of the European Parliament and of the Council	This exemption shall be reviewed in 2025.
5(b)(ii)	Lead in batteries used in applications not included in entry 5(a) or entry 5(b)(i)	Vehicles type approved before 1 January 2024 and spare parts for these vehicles
6	Vibration dampers	Vehicles type-approved before 1 January 2016 and spare parts for these vehicles
7(a)	Vulcanising agents and stabilisers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in the chassis applications, and engine mountings	As spare parts for vehicles put on the market before 1 July 2005
7(b)	Vulcanising agents and stabilisers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in the chassis applications, and engine mountings containing up to 0.5 % lead by weight	As spare parts for vehicles put on the market before 1 July 2006
7(c)	Bonding agents for elastomers in powertrain applications containing up to 0.5 % lead by weight	As spare parts for vehicles put on the market before 1 July 2009
8(a)	Lead in solders to attach electrical and electronic components to electronic circuit boards and lead in finishes on terminations of components other than electrolyte aluminium capacitors, on component pins and on electronic circuit boards	Vehicles type-approved before 1 January 2016 and spare parts for these vehicles
8(b)	Lead in solders in electrical applications other than soldering on electronic circuit boards or on glass	Vehicles type-approved before 1 January 2011 and spare parts for these vehicles
8(c)	Lead in finishes on terminals of electrolyte aluminium capacitors	Vehicles type-approved before 1 January 2013 and spare parts for these vehicles
8(d)	Lead used in soldering on glass in mass airflow sensors	Vehicles type-approved before 1 January 2015 and spare parts of such vehicles
8(e)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	This exemption shall be reviewed in 2024.
8(f)(a)	Lead in compliant pin connector systems	Vehicles type-approved before 1 January 2017 and spare parts for these vehicles
8(f)(b)	Lead in compliant pin connector systems other than the mating area of vehicle harness connectors	Vehicles type-approved before 1 January 2024 and spare parts for these vehicles



**Attached Table 4A-1 Exemptions from the EU ELV Directive****No.3 Lead/Lead compounds****Lead and lead compounds in components**

No.	Materials and Components	Scope and expiry date of the exemption
8(g)(i)	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	Vehicles type approved before 1 October 2022 and spare parts for these vehicles
8(g)(ii)	Lead in solders to complete a viable electrical connection between the semiconductor die and the carrier within integrated circuit flip chip packages where that electrical connection consists of any of the following: (i) a semiconductor technology node of 90 nm or larger; (ii) a single die of 300 mm <sup>2</sup> or larger in any semiconductor technology node; (iii) stacked die packages with dies of 300 mm <sup>2</sup> or larger, or silicon interposers of 300 mm <sup>2</sup> or larger.	Valid for vehicles type-approved from 1 October 2022 and spare parts for these vehicles
8(h)	Lead in solder to attach heat spreaders to the heat sink in power semiconductor assemblies with a chip size of at least 1 cm <sup>2</sup> of projection area and a nominal current density of at least 1 A/mm <sup>2</sup> of silicon chip area	Vehicles type-approved before 1 January 2016 and after that date as spare parts for these vehicles
8(i)	Lead in solders in electrical glazing applications on glass except for soldering in laminated glazing	Vehicles type-approved before 1 January 2016 and after that date as spare parts for these vehicles
8(j)	Lead in solders for soldering of laminated glazing	Vehicles type-approved before 1 January 2020 and after that date as spare parts for these vehicles
8(k)	Soldering of heating applications with 0.5 A or more of heat current per related solder joint to single panes of laminated glazings not exceeding wall thickness of 2.1 mm. This exemption does not cover soldering to contacts embedded in the intermediate polymer	Vehicles type approved before 1 January 2024 and spare parts for these vehicles
9	Valve seats	As spare parts for engine types developed before 1 July 2003
10(a)	Electrical and electronic components which contain lead in a glass or ceramic, in a glass or ceramic matrix compound, in a glassceramic material, or in a glass-ceramic matrix compound. This exemption does not cover the use of lead in: — glass in bulbs and glaze of spark plugs, — dielectric ceramic materials of components listed under 10(b), 10(c) and 10(d).	—
10(b)	Lead in PZT-based dielectric ceramic materials of capacitors being part of integrated circuits or discrete semiconductors	—
10(c)	Lead in dielectric ceramic materials of capacitors with a rated voltage of less than 125 V AC or 250 V DC	Vehicles type-approved before 1 January 2016 and spare parts for these vehicles
10(d)	Lead in the dielectric ceramic materials of capacitors compensating the temperature-related deviations of sensors in ultrasonic sonar systems	Vehicles type-approved before 1 January 2017 and after that date as spare parts for these vehicles
11	Pyrotechnic initiators	Vehicles type-approved before 1 July 2006 and spare parts for these vehicles
12	Lead-containing thermoelectric materials in automotive electrical applications to reduce CO <sub>2</sub> emissions by recuperation of exhaust heat	Vehicles type-approved before 1 January 2019 and spare parts for these vehicles

**No.2 Chromium (VI) compounds**

No.	Materials and Components	Scope and expiry date of the exemption
13(a)	Corrosion preventive coatings	As spare parts for vehicles put on the market before 1 July 2007
13(b)	Corrosion preventive coatings related to bolt and nut assemblies for chassis applications	As spare parts for vehicles put on the market before 1 July 2008
14	Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75 % by weight in the cooling solution: (i) designed to operate fully or partly with electrical heater, having an average utilised electrical power input < 75W at constant running conditions; (ii) designed to operate fully or partly with electrical heater, having an average utilised electrical power input ≥ 75W at constant running conditions; (iii) designed to fully operate with non-electrical heater	(i) Vehicles type approved before 1 January 2020 and spare parts for these vehicles (ii) Vehicles type approved before 1 January 2026 and spare parts for these vehicles

**No.4 Mercury/Mercury compounds**

No.	Materials and Components	Scope and expiry date of the exemption
15(a)	Discharge lamps for headlight application	Vehicles type-approved before 1 July 2012 and spare parts for these vehicles
15(b)	Fluorescent tubes used in instrument panel displays	Vehicles type-approved before 1 July 2012 and spare parts for these vehicles

**No.1 Cadmium/Cadmium compounds**

No.	Materials and Components	Scope and expiry date of the exemption
16	Batteries for electrical vehicles	As spare parts for vehicles put on the market before 31 December 2008

**2B Use-restricted substances (For product/package delivery to Canon, Canon should make the deadline, and contain of the substances will be prohibited after the deadline.)**

No.	Substance/Substance group	Applicable Substances CAS No.	Scope	Threshold	Exemption	Reference laws and regulations	Delivery deadline	ID of IEC62474 DSL
1	Perfluorohexane acids (PFHxA) and its salts	-	Textiles, leather, furs and hides <sup>a)</sup>	0.0000025 mass% (25ppb) of PFHxA including its salts in homogeneous material	-	5-1	2026/10/9	-
2	PFHxA-related substances	-		0.0001 mass% (1000ppb) of one or a combination of PFHxA-related substances, in homogeneous material	-	5-1	2026/10/9	-
3	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene](DBDPE)	84852-53-9	All	Intentionally added	-	12	2029/2/28 <sup>b)</sup>	-
4	Medium-chain chlorinated paraffins (MCCP)(Chlorinated paraffins with carbon chain lengths in the range C14-17 and chlorination levels at or exceeding 45% chlorine by weight)	—	All	Intentionally added	—	9,10	2025/12/31 <sup>d)</sup>	—
5	Long-chain (C9-C21) perfluorocarboxylic acids, its salts and related substances <sup>c)</sup>	—	All	Intentionally added	—	9,10	2025/12/31 <sup>d)</sup>	—

[Notes for 2B as a whole]

- The "Applicable Substance CAS No." column shows CAS No. when substance(s) is specified. The "-" in the column means the substance is defined as substance group.
- The numbers in the "Reference laws and regulations" column correspond to the numbers in Attached "Reference laws and regulations and Numberings". "Reference laws and regulations" in this table do not include all laws, ordinances, and standards to be the basis, but give only examples.

[Note a) on PFHxA and its salts and PFHxA-related substances]

- They are also listed as prohibited substances in 5A No.38 and No.39. Delivery of "Textiles, leather, furs and hides in clothing and related accessories for the general public and Footwear for the general public" is prohibited after 2025/10/10.

[Note b)]

- Delivery deadline is subject to change due to legal requirements.

[Note c)]

- C9-C14 perfluorocarboxylic acids, its salts and related substances are listed as Prohibited substances in 2A No.40 and 41. Delivery is prohibited.

[Note d)]

- Delivery deadline is subject to change due to legal requirements. If there is a change, we will contact relevant Canon suppliers. If you do not hear from us, these substances will be moved to prohibited substances from 2026/1/1, and delivery will be prohibited.

**2C Controlled substances (Substances which is necessary to report presence, content, and site of use, etc. in the product.)**

No.	Substance/ Substance Group	Applicable Substances CAS No.	Scope	Threshold	Exemptions	Reference laws and regulations	ID of IEC62474 DSL
1	Nickel/Nickel Compounds	-	All, where prolonged skin contact is expected	Intentionally added	-	5-1	00031
2	Radioactive substances	-	All	Intentionally added	-	18,19,20	00049
3	Beryllium Oxide	1304-56-9	All	0.1 mass% (1000ppm) of product	-	42	00005
4	Perchlorates	-	All	6E-7 mass% (0.006ppm) of battery or product part	-	21	00033
5	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	-	Plastic materials except printed wiring board laminates	0.1 mass% (1000ppm) of bromine in plastic materials	-	40	00009
6			Printed wiring board laminate	0.09 mass% (900ppm) total bromine content in laminate	-	41	00008
7	Chlorinated Flame Retardants (CFR)	-	Plastic materials except printed wiring board laminates	0.1 mass% (1000ppm) chlorine in plastic materials	-	40	00062
8			Printed Wiring Board (PWB) Laminates	0.09 mass% (900ppm) total chlorine content in laminate	-	41	00063
9	Polyvinyl chloride (PVC)/PVC Copolymers <sup>a)</sup>	-	plastic materials	0.1 mass% (1000ppm) chlorine in plastic materials	-	-	-
10	Formaldehyde	50-00-0	Textiles	0.0075 mass% (75ppm) of textile	-	5-1	00019
11	Phthalates, Selected Group 2 (DIDP, DINP, DNOP)	28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0	All	0.1 mass% (1000ppm) as the sum of the phthalate concentrations in plasticized material	-	5-1,13	00037
12	Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	All	Intentionally added	-	6	00107
13	Di-isodecyl phthalate (DIDP)	68515-49-1 26761-40-0	All	Intentionally added	-	6	00090

**2C Controlled substances (Substances which is necessary to report presence, content, and site of use, etc. in the product.)**

No.	Substance/ Substance Group	Applicable Substances CAS No.	Scope	Threshold	Exemptions	Reference laws and regulations	ID of IEC62474 DSL
14	Di-n-hexyl Phthalate (DnHP)	84-75-3	All	Intentionally added or 0.1 mass% (1000ppm) of article	-	5-2,6	00091
15	4,4'-isopropylidenediphenol	80-05-7	All	Intentionally added or 0.1 mass% (1000ppm) of article	-	5-2,6	00141
16	2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol	79-94-7	All	0.1 mass% (1000ppm) in homogenous material	-	1	-
17	Cobalt/Cobalt compounds	-	batteries used in computer servers and online data storage products	Intentionally added	-	46	00175
18	Neodymium/Neodymium compounds	-	HDDs used in computer servers and online data storage products	Intentionally added	-	46	00176
19	Per- and poly-fluoroalkyl substances (PFAS) <sup>b)</sup>	-	All	Intentionally added	-	48	00193
20	Diisooctyl phthalate (DIOP)	27554-26-3	All	0.1 mass% (1000ppm) of article or mixture	-	47	00203
21	Colecalciferol	67-97-0	All	0.1 mass% (1000ppm) of article or mixture	-	47	00204
22	REACH Regulation Candidate List of substances of very high concern for Authorisation	See Attached Table 2C-1 (REACH Regulation Candidate List of substances of very high concern for Authorisation)	All	0.1 mass% (1000ppm) of article	-	5-2	-

[Notes for 2C as a whole]

- The "Applicable Substance CAS No." column shows CAS No. when substance(s) is specified. The "-" in the column means the substance is defined as substance group.
- The numbers in the "Reference laws and regulations" column correspond to the numbers in Attached "Reference laws and regulations and Numberings". "Reference laws and regulations" in this table do not include all laws, ordinances, and standards to be the basis, but give only examples.

[Note a) on Polyvinyl chloride (PVC) /PVC Copolymers"]

- For "Polyvinyl chloride (PVC) /PVC Copolymers", additional survey will be carried out if necessary individually.

[Note b) on Per- and poly-fluoroalkyl substances (PFAS) ]

- Listed as a Prohibited substance as No.37 of 5A. Delivery is prohibited for Textile article.
- In response to the trend toward the regulation of PFAS in the US and EU, we may conduct surveys on alternative technologies. Also, if there is an alternative material, please make a proposal to our company.

**Attached Table 2C-1 Controlled substances (REACH Regulation Candidate List of substances of very high concern for Authorisation)**

They are controlled substances when contained equal to or more than 0.1mass% (1,000 ppm) in an article\*.

However, each requirement shall take precedence, in the case that there is a description in the Note column and falls within the scope of 2A,3A,4A (Prohibited substances) or 2B (Use-restricted substances).

\*"Article" herein means "the minimum unit of a part designed to perform its function." (This interpretation is based upon the judgment of the European Court of Justice delivered in September 2015 pertaining to the denominator (article) for calculating concentrations under the REACH Regulations.

No.	Substance/ Substance Group	Applicable Substances CAS No.	Note	DSL ID of IEC62474
1	Diarsenic pentoxide	1303-28-2	Use for wood preservative is prohibited pursuant to 3A No.2 (Arsenic Compounds).	00001
2	Diarsenic trioxide	1327-53-3		00002
3	Cobalt Dichloride	7646-79-9	Use for indicator in a drying agent is prohibited pursuant to 3A No.3 (Cobalt dichloride).	00013
4	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	Use under the scope of 2A No.31-34 and 35, is prohibited.	00038
5	Dibutyl phthalate (DBP)	84-74-2		00039
6	Benzyl butyl phthalate (BBP)	85-68-7		00040
7	Diisobutyl phthalate	84-69-5		00041
8	Lead chromate	7758-97-6	Use under the scope of 2A No.3 (Chromium (VI) compounds) or No.4-8 (Lead/Lead compounds), is prohibited.	00026
9	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8		00027
10	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2		00028
11	Aluminosilicate Refractory Ceramic Fibres	-	-	00050
12	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-	00051
13	Tris(2-chloroethyl) phosphate	115-96-8	-	00056
14	Boric acid	-	-	00007
15	Disodium tetraborate, anhydrous	-	-	00017
16	Tetraboron disodium heptaoxide, hydrate	12267-73-1	-	00163
17	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	-	00042
18	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	-	00043
19	Strontium chromate	7789-06-2	Use under the scope of 2A No.3(Chromium (VI) compounds) is prohibited.	00053
20	Pentazinc chromate octahydroxide	49663-84-5		00060
21	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9		00061
22	Bis(2-methoxyethyl) phthalate	117-82-8	-	00059
23	Bis(2-methoxyethyl) ether	111-96-6	-	00058
24	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	-	00057
25	Diboron trioxide	1303-86-2	-	00075
26	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	-	00066
27	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	-	00068
28	Orange lead (lead tetroxide)	1314-41-6	Use under the scope of 2A No.4-8 (Lead/Lead compounds) is prohibited.	00071
29	Lead oxide sulfate	12036-76-9		00085
30	Sulfurous acid, lead salt, dibasic	62229-08-7		00065
31	Tetralead trioxide sulphate	12202-17-4		00070
32	Pentalead tetraoxide sulphate	12065-90-6		00073

**Attached Table 2C-1 Controlled substances (REACH Regulation Candidate List of substances of very high concern for Authorisation)**

No.	Substance/ Substance Group	Applicable Substances CAS No.	Note	DSL ID of IEC62474
33	Lead dinitrate	10099-74-8	Use under the scope of 2A No.4-8 (Lead/Lead compounds) is prohibited.	00089
34	Lead titanium trioxide	12060-00-3		00083
35	Lead titanium zirconium oxide	12626-81-2		00084
36	Trilead dioxide phosphonate	12141-20-7		00067
37	Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped	68784-75-8		00079
38	Fatty acids, C16-18, lead salts	91031-62-8		00088
39	Dioxobis(stearato)trilead	12578-12-0		00087
40	Lead cyanamidate	20837-86-9		00077
41	[Phthalato(2-)]dioxotrilead	69011-06-9		00086
42	Pyrochlore, antimony lead yellow	8012-00-8		00072
43	Dibutyltin dichloride (DBTC)	683-18-1	Use under the scope of 2A No.13 (Dibutyltin (DBT) compounds) is prohibited.	00076
44	Diisopentyl phthalate	605-50-5	-	00081
45	N-pentyl-isopentylphthalate	776297-69-9	-	00082
46	Hexahydromethylphthalic anhydride	-	-	00092
47	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	-	00080
48	1,2-Diethoxyethane	629-14-1	-	00074
49	N,N-dimethylformamide	68-12-2	-	00078
50	4-Aminoazobenzene	60-09-3	Use of azo dyes and pigments containing more than 0.003 weight% (30ppm) of 4-aminoazobenzene in textile/leather products is prohibited by 5A No.36 (Azocolourants and azodyes which form certain aromatic amines).	00069
51	Cadmium	7440-43-9	Use under the scope of 2A No.1-2 (Cadmium/Cadmium compounds) is prohibited.	00093
52	Cadmium oxide	1306-19-0		00094
53	Cadmium sulphide	1306-23-6		00099
54	Cadmium hydroxide	21041-95-2		00146
55	Dipentyl phthalate (DPP)	131-18-0	-	00095
56	4-Nonylphenol, branched and linear, ethoxylated	-	-	00098
57	Trixylyl phosphate	25155-23-1	-	00100
58	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	-	00105
59	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	-	00126
60	Disodium 3,3'-[[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	-	00102
61	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	-	00106
62	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	This substance is listed as prohibited substance in 2A No.47. Delivery is prohibited.	00130
63	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	Use under the scope of 2A No.14 (Dioctyltin (DOT) compounds) is prohibited.	00128
64	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-		00129

**Attached Table 2C-1 Controlled substances (REACH Regulation Candidate List of substances of very high concern for Authorisation)**

No.	Substance/ Substance Group	Applicable Substances CAS No.	Note	DSL ID of IEC62474
65	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	-	00131
66	1,3-propanesultone	1120-71-4	-	00133
67	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	-	00134
68	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	-	00135
69	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	This is 2A No.40 C9-C14 PFCAs and their salts, so this is prohibited.	00140
70	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	Use under the scope of 2A No.29-30(Polycyclic aromatic hydrocarbons (PAH)) is prohibited.	00138
71	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	This is 2A No.40 C9-C14 PFCAs and their salts, so this is prohibited.	00142
72	Perfluorohexane-1-sulphonic acid and its salts	-	This is 2A No.42 Perfluorohexane sulfonic acid (PFHxS), its salts, so this is prohibited.	00143
73	Chrysene	218-01-9	Use under the scope of 2A No.29-30(Polycyclic aromatic hydrocarbons (PAH)) is prohibited.	00144
74	Benz[a]anthracene	56-55-3		00145
75	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> )	-	This substance is listed as prohibited substance in 2A No.46. Delivery is prohibited.	00147
76	Benzo[ghi]perylene	191-24-2	-	00148
77	Octamethylcyclotetrasiloxane	556-67-2	-	00149
78	Decamethylcyclopentasiloxane	541-02-6	-	00150
79	Dodecamethylcyclohexasiloxane	540-97-6	-	00151
80	Disodium octaborate	12008-41-2	-	00152
81	Terphenyl, hydrogenated	61788-32-7	-	00153
82	Lead	7439-92-1	Use under the scope of 2A No.4-8 (Lead/Lead compounds) is prohibited.	00154
83	Dicyclohexyl phthalate	84-61-7	-	00139
84	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	-	00155
85	Benzo[k]fluoranthene	207-08-9	Use under the scope of 2A No.29-30(Polycyclic aromatic hydrocarbons (PAH)) is prohibited.	00156
86	Fluoranthene	206-44-0	-	00157
87	Phenanthrene	85-01-8	-	00158
88	Pyrene	129-00-0	-	00159
89	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	-	00162
90	Diisohexyl phthalate	71850-09-4	-	00164

**Attached Table 2C-1 Controlled substances (REACH Regulation Candidate List of substances of very high concern for Authorisation)**

No.	Substance/ Substance Group	Applicable Substances CAS No.	Note	DSL ID of IEC62474
91	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	00165
92	Di-n-hexyl Phthalate (DnHP)	84-75-3	Listed as 2C No.14. It is necessary to control by "intentionally added" as well.	00091
93	4,4'-isopropylidenediphenol	80-05-7	Listed as 2C No.15. It is necessary to control by "intentionally added" as well.	00141
94	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	Use under the scope of 2A No.13 (Dibutyltin (DBT) compounds) is prohibited.	00170
95	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	-	00172
96	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	Use under the scope of 2A No.14 (Dioctyltin (DOT) compounds) is prohibited.	00173
97	4,4'-(1-methylpropylidene)bisphenol	77-40-7	-	00177
98	Medium-chain chlorinated paraffins (MCCP)	-	This substance is listed as Use-restricted substance in 2B No.4. This substance is scheduled to be prohibited in the future, so please try to substitute.	00178
99	orthoboric acid, sodium salt	-	-	00179
100	4-Nonylphenol, branched and linear	-	-	00180
101	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	-	00181
102	1,1'-[ethane-1,2-diylbisoxyl]bis[2,4,6-tribromobenzene]	37853-59-1	-	00184
103	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	This substance is listed as controlled substances substance in 2C No.16. It is necessary to control by "0.1 mass% (1000ppm) in homogenous material "as well.	00185
104	4,4'-sulphonyldiphenol	80-09-1	-	00186
105	Barium diboron tetraoxide	13701-59-2	-	00187
106	Bis(2-ethylhexyl) tetrabromophthalate	-	-	00188
107	Isobutyl 4-hydroxybenzoate	4247-02-3	-	00189
108	Melamine	108-78-1	-	00190
109	Perfluoroheptanoic acid and its salts	-	-	00191
110	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	-	00192
111	bis(4-chlorophenyl) sulphone	80-07-9	-	00194
112	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	-	00195
113	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	This is 2A No.17 Polybrominated diphenyl ethers (PBDE), so this is prohibited.	00064
114	Pentadecafluorooctanoic Acid (PFOA)	335-67-1	This is 2A No.36 Perfluorooctanoic acid and its salts, so this is prohibited.	00096
115	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1		00097



**Attached Table 2C-1 Controlled substances (REACH Regulation Candidate List of substances of very high concern for Authorisation)**

No.	Substance/ Substance Group	Applicable Substances CAS No.	Note	DSL ID of IEC62474
116	2,4,6-tri-tert-butylphenol	732-26-3	-	00196
117	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl) phenol (UV-329)	3147-75-9	-	00197
118	2-(dimethylamino)-2-[(4-methylphenyl) methyl]-1-[4-(morpholin-4-yl) phenyl] butan-1-one	119344-86-4	-	00198
119	Bumetrizole (UV-326)	3896-11-5	-	00199
120	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	-	00200
121	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	-	00202
122	Triphenyl phosphate	115-86-6	-	00206
123	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	-	00207
124	O,O,O-triphenyl phosphorothioate	597-82-0	-	00208
125	Octamethyltrisiloxane	107-51-7	-	00209
126	Perfluamine	338-83-0	-	00210
127	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	-	00211

[Notes for Attached Table 2C-1 as a whole]

- In principle, this table includes substances in DSL of IEC62474 which applies to electrical and electronic equipment only among substances on the candidate SVHC for authorization of REACH.

- The "Applicable Substance CAS No." column shows CAS No. when substance(s) is specified. The "-" in the column means the substance is defined as substance group.

## 2D Environmental label substances in plastic exterior enclosure members/cabinets for business machine products (Eco Mark, Blue Angel)

Chemical substances for which surveys on inclusion information are required for parts and materials used for specific purposes and in specific portions in products in the category of specific business machine products related to Eco-label certification. Here, chemical substances classified as "2A Prohibited Substances" are excluded. Canon will individually contact suppliers to make a survey request. These substances are prohibited from use in parts & materials to be delivered to Canon, when no inclusion of these substances is indicated in reply to parts & materials surveys or when no inclusion is instructed by means of specifications (e.g., drawings, delivery specifications).

No.	Substance/ Substance group	Organization, law or list specified in eco-label standards	
		Organization, law, or list regulating chemical substance	Classification in the law, or list on the left
1	Chlorinated Paraffin	-	-
2	Polymers containing halogen	-	-
3	Organohalogen compounds (in particular, flame retardants)	-	-
4	Carcinogenic substances	1272/2008/EC <sup>a)</sup> , ANNEX VI Table3.1	Category 1A
			Category 1B
5	Reproductive toxic substances	1272/2008/EC <sup>a)</sup> , ANNEX VI Table3.1	Category 1A
			Category 1B
6	Mutagenic substances	1272/2008/EC <sup>a)</sup> , ANNEX VI Table3.1	Category 1A
			Category 1B
7	Substances listed on the candidate list of SVHC(REACH) (Versions up to time of application)	Candidate List of Substances of Very High Concern for Authorisation disclosed by ECHA	-
<p>[ Notes a) ]  1272/2008/EC: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 [CLP Regulation] (EU) Annex VI of this EU Regulation was transferred from the old 67/548/EEC Annex I.</p>			

**2E Prohibited Substances in LBP (Laser Printer) parts**

Prohibition of these substances applies to parts and materials used in LBP (OEM specifications) products, and parts and materials surveys will be conducted using the "Canon's Additional Survey Form (peripherals version)". When suppliers indicate no inclusion of these substances in reply to parts & materials surveys or no inclusion is instructed by means of specifications (e.g., drawings, delivery specifications), these substances are prohibited from use in parts and materials that are employed in LBP (OEM specifications) products to be delivered to Canon.

No.	Substance/ Substance group	Threshold	Conditions, etc.
1	Halogen Compounds	0.1 mass % (1000ppm) in homogeneous material	Resin parts are concerned. Exemptions are indicated in Supplement 1.
2	Arsenic and its compounds	0.1 mass % (1000ppm) in homogeneous material	Excluding use in semiconductor chips (dye only) and copper foil of printed circuit boards.
3	Beryllium and its compounds	0.1 mass % (1000ppm) in homogeneous material	Exemptions are made for the following: - Ceramic in electronic components - Electrical coupling use of beryllium copper(connectors, springs, EMI gaskets, etc.)
4	Polycyclic Aromatic Hydrocarbons (PAH)	Refer to Attached Table 2E for objective substances and threshold value	Applies to exterior components for LBP.
5	Chlorinated paraffins	0.1 mass % (1000ppm) in homogeneous material	The scope is printed circuit boards (bare boards).
Supplement 1 Halogen Compounds - When the corresponding substances are contained in the grade of the primary material itself, and when the content material grade of the corresponding substance is indicated in drawings, etc., they are exempted even if they are "resin parts." - "Electrical parts and rubber parts" are exempted. (Exemption examples) Tapes, sponges, sheet, film, spacers, wire saddles, tie wraps, switches, fans, motors, photo sensors, inlets, power supply, connectors, printed-circuit boards, power cords, cables, etc			

**Attached Table 2E**

No.	CAS No.	Target substances	Threshold
1	50-32-8	Benzo(a)pyrene	<0.0001 mass%(1ppm)
2	192-97-2	Benzo(e)pyrene	<0.0001 mass%(1ppm)
3	56-55-3	Benzo(a)anthracene	<0.0001 mass%(1ppm)
4	205-99-2	Benzo(b)fluoranthene	<0.0001 mass%(1ppm)
5	205-82-3	Benzo(j)fluoranthene	<0.0001 mass%(1ppm)
6	207-08-9	Benzo(k)fluoranthene	<0.0001 mass%(1ppm)
7	218-01-9	Chrysene	<0.0001 mass%(1ppm)
8	53-70-3	Dibenzo(a,h)anthracene	<0.0001 mass%(1ppm)
9	191-24-2	Benzo(g,h,i)perylene	<0.0001 mass%(1ppm)
10	193-39-5	Indeno(1,2,3-cd)pyrene	<0.0001 mass%(1ppm)
11	85-01-8	Phenanthrene	Total <0.005 mass%(50ppm)
12	120-12-7	Anthracene	
13	206-44-0	Fluoranthene	
14	129-00-0	Pyrene	
15	91-20-3	Naphthalene	<0.001 mass%(10ppm)
Total of the above 15 substances			<0.005 mass%(50ppm)

**3E Prohibited Substances in Packaging LBP (Laser Printer) parts**

Prohibition of these substances applies to parts and materials used in packaging of LBP (OEM specifications) products, and parts and materials surveys will be conducted using the "Canon's Additional Survey Form (peripherals version)". When suppliers indicate no inclusion of these substances in reply to parts & materials surveys or no inclusion is instructed by means of specifications (e.g., drawings, delivery specifications), these substances are prohibited from use in parts and materials that are employed in packaging of LBP (OEM specifications) products to be delivered to Canon.

No.	Substance/ Substance group	Threshold	Conditions, etc.
1	Elemental chlorine	Intentionally added	Use as bleaching agent to whiten fibers contained in packaging made of paper (virgin or recycled materials) is prohibited.
2	Halogen compounds and halogen resins	Intentionally added	Applies to plastic parts.

**2F Controlled Substances in Medical Equipment Products**

Chemical substances that require survey of content information, etc. as necessary for materials and parts with specific applications/parts specific to medical devices.

No.	Substance/ Substance Group	CAS number	Typical Applications	Scope	Reference laws and regulations
1	Bisphenol A (BPA) or substances originating from BPA	(80-05-7, 24936-68-3)	Resin materials, PVC additives	Patient contact parts	43

**Reference laws and regulations and Numberings**

Attached Legal references (numberings in attached tables)	Country, Area/Standards, etc.	Reference laws and regulations, etc.
1	EU	RoHS Directive 2011/65/EU and its amendments
2	China	Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products
3	USA California	Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
4	Japan	Law for the Promotion of Effective Utilization of Resources
5-1	EU	REACH Regulation (EC) No.1907/2006 ANNEX XVII
5-2	EU	REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation
6	USA California	Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
7	USA	Toxic Substances Control Act (TSCA)
8	Switzerland	Act of Reduction of Risks in Treatment of Specified Hazardous Substances, Preparations, and Articles in Switzerland (ChemRRV) Swiss Ordinance 814.81
9	Japan	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
10	EU	Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021
11		Missing number
12	Canada	Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment
13	USA	Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
14	EU	REGULATION (EU) No 517/2014 on fluorinated greenhouse gases
15	International Treaty	Montreal Protocol on Substances that Deplete the Ozone Layer
16	Japan	Law concerning the Protection of the Ozone Layer
17	EU	Regulation on substances that deplete the ozone layer (EC) No. 1005/2009
18	Japan	Law Concerning Prevention from Radiation Hazards due to Radio-Isotopes, etc.
19	Japan	Law for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors
20	EU	Directive 2013/59/Euratom
21	USA California	Perchlorate Contamination Prevention Act of 2003-AB 826
22		Missing number
23	EU	EU Package Directive 94/62/EC
24	USA	Toxics in Packaging Prevention Act
25	Korea (the Republic of)	ACT ON THE PROMOTION OF SAVING AND RECYCLING OF RESOURCES
26	EU	EU Battery Regulation (EU) No. 2023/1542
27	Korea (the Republic of)	Quality Management and Manufactured Product Safety Management Law (Battery Regulation)
28	Taiwan (Province of China)	Restrictions on the Manufacture, Import, and Sale of Dry Cell Batteries
29	Brazil	Brazil Battery Regulation Resolution No.401
30	China	GB 24427-2021, Content limitation of mercury, cadmium and lead for zinc anode primary battery
31	Canada	Products containing Mercury Regulations SOR/2014-254
32	USA	Federal Mercury-Containing and Rechargeable Battery Management Act (104-142)
33	USA Iowa	Mercury Cell Regulations
34	USA Maine	Regulation concerning mercury added button-type cell (LD 1026)

**Reference laws and regulations and Numberings**

Attached Legal references (numberings in attached tables)	Country, Area/Standards, etc.	Reference laws and regulations, etc.
35	USA Minnesota	Mercury Cell Regulations
36	USA New York	Battery Reduction Rules
37	USA Rhode Island	Mercury Reduction and Education Act SECTION 23-24.9-6
38	China	Regulations on the mercury content of battery products
39	Standard	IEC62474
40	Standard	JEDEC JS709
41	Standard	IPC-4101,IEC 61249-2-21
42	Guidance	EICTA, CECED and EERA Joint Position : Guidance on implementing article 11 of Directive 2002/96(EC) concerning information for treatment facilities
43	Canada	Medical Devices Regulations SOR/98-282
44	EU	ELV Directive 2000/53/EC
45	EU	Commission Regulation (EU) 2019/2021 laying down ecodesign requirements for electronic displays
46	EU	Ecodesign requirements (EU) 2021/341 and (EU) 2019/424 pursuant to Directive 2009/125/EC
47	France	The French AGECE Law
48	USA Maine	Maine Public Law, Chapter 447 (LD 1503, 2021) PFAS regulation
49	USA California	California Health and Safety Code (Textile Articles: PFAS) (AB1817, 2022)
50	Korea (the Republic of)	Electrical Appliances and Consumer Products Safety Control Act
51	USA Washington	Safer Products for Washington Chapter 173-337 WAC SAFER PRODUCTS RESTRICTIONS AND REPORTING