

# Epson Group Green Purchasing Standard for Production Materials

**Rev. 11** 

Established: January 15, 2003

Revised: September 1, 2025

**Enacted: December 1, 2025** 

**SEIKO EPSON CORPORATION** 

### **Table of Contents**

### **STANDARDS**

- 1. Purpose
- 2. Scope
- 3. Epson's Basic Principles of Product Substance Assurance
- 4. Epson's Expectations of Suppliers
- 5. Before Transactions Can Begin
- 6. When This Standard is Revised
- 7. Information Handling
- 8. Requests Regarding the Assurance System for Substances in Products

### **Appendix 1: Substance Handling Standards**

- 1. Explanation of Terms
- 2. Substance Group Handling Standards
- 2.1 Substances Prohibited in Products

Level 1 prohibited substances

Level 2 prohibited substances

**Table 2.1-1 Battery Restrictions** 

**Table 2.1-2 EU RoHS Directive Exemptions** 

**Table 2.1-3 Examples of Prohibited Substances & Substance Groups** 

**Table 2.1-4 Regulations Referenced** 

Table 2.1-5 Analysis Standards

2.2 Substances Prohibited from Use in Manufacturing Processes

# **Appendix 2: Revision History**

### **STANDARDS**

### 1. Purpose

This Green Purchasing Standard sets forth the principles, specific criteria for, and use of a product substance assurance system that can ensure that certain hazardous substances are not present in products. The purpose is to prevent substance-related problems for the Epson Group ("Epson" hereafter) and its customers.

### 2. Scope

This Green Purchasing Standard applies to all production materials that Epson procures. "Production materials" include all finished products, semi-finished products, units, components, raw materials, accessories, options, packaging materials\* and other goods comprising Epson products.

\* Examples of packaging materials that fall within the scope of this standard: individual boxes, outer boxes (carton boxes), carrying cases, cushioning material, internal and external partitions, fixtures, adhesives, coating materials, staples, OPP tape, ink, and transport pallets (Epson specification).

### 3. Epson's Basic Principles of Product Substance Assurance

Epson procures production materials on the basis of the following five principles:

- (1) Comply with applicable laws and regulations.
- (2) Procure materials from suppliers that can comply with conditions specified in this standard regarding prohibited substances (e.g., thresholds, parts and locations where substances are present, uses).
- (3) Procure materials from suppliers who can guarantee that prohibited substances are not present in their products.
- (4) Procure materials from suppliers who can provide data on target substances present in their products.
- (5) Accept goods that have been guaranteed by the supplier.

### 4. Epson's Expectations of Suppliers

Epson asks its suppliers to do the following three things for the purpose of product substance assurance based on "3. Epson's Basic Principles of Product Substance Assurance":

- (1) Comply with this standard.
- (2) Build and maintain a product substance assurance system.
- (3) Report information about substances in products.

Details are provided below.

### (1) Comply with this standard.

Epson generally buys from suppliers who agree to comply with the content of this standard. This standard will be presented to suppliers prior to the start of transactions and each time it is revised. Epson asks that suppliers agree to comply with this standard. Please see "5. Before Transactions Can Begin" and "6. When This Standard is Revised" for details.

### (2) Build and maintain a product substance assurance system.

To provide reliable product substance assurance, suppliers need to build and maintain a system for doing so. Epson asks that you build and maintain a product substance assurance system based on this Green Purchasing Standard. Please see "8. Requests Regarding the Assurance System for Substances in Products" for details. Epson will check your product substance assurance system before beginning transactions and thereafter as necessary. For details about the checking method, please see "5. Before Transactions Can Begin."

### (3) Report information about substances in products.

Information about substances present in products must be accurately communicated to guarantee that restricted substances are not present in products in the supply chain. Epson asks suppliers to submit the information for production materials delivered to Epson, as identified through the supply chain.

### <Format of submission>

Please follow the instructions of the Epson business unit and use either or both of 1) the chemSHERPA-AI/CI file and 2) a format specified by the Epson business unit.

Format	Details
1) chemSHERPA-	Please submit chemSHERPA-AI file for articles and chemSHERPA-
AI/CI file	CI file for chemical products. When filling out them, please use the
	data entry support tool provided by chemSHERPA. In case of
	chemSHERPA-AI file, both compliance assessment information and
	composition information will be needed.
	For detailed information and instructions about chemSHERPA,
	please see the following website:
	Information about Product Substances (Epson Standard Survey)
	URL: https://corporate.epson/en/sustainability/supply-chain/green-
	purchasing/chemical-substances.html
2) Others:	For detailed information, please see the following website;
Format specified	Surveys and Submissions (Operations Division Surveys)
by Epson	URL: <a href="https://corporate.epson/en/sustainability/supply-chain/green-">https://corporate.epson/en/sustainability/supply-chain/green-</a>
	purchasing/green-standards.html

Epson may ask you to provide information by other means if necessary to respond to our customers' requirements or Epson's business unit, industry, or legal and regulatory needs. Please provide information using the method specified by Epson. Examples:

- Report on the results of analyses or tests of substances specified by an Epson business unit (Use the method of analysis, testing, or measurement specified by the Epson business unit, if any. See Table 2.1-5 for analysis standards.)
- Survey data on the amount of substances prohibited in products, non-controlled substances in products, or a certificate declaring that a product does not contain prohibited substance

<Information about SVHC on the candidate list of EU REACH regulation>
Please notify Epson if a substance of high concern (SVHC) on the Candidate List is present in a concentration greater than 0.1% w/w in articles or mixtures in accordance with the manual and usage rules in 1) the chemSHERPA file or 2) the specified format. Even if any SVHC is newly found to be present in articles which have already been reported, please notify Epson with above format again. The relevant substances are listed on the website below.

ECHA - Candidate List of substances of very high concern for Authorisation <a href="https://echa.europa.eu/candidate-list-table">https://echa.europa.eu/candidate-list-table</a>

<Information about Class I Specified Chemical Substances on Japanese Law Concerning the Examination and Regulation of the Manufacture etc. of Chemical Substances > Please notify Epson if a relevant substance contained in mixtures as an impurity (including cases where it is unintentionally generated as a by-product during the manufacture of other chemical substances). Even for production materials for which chemical substance information has already been submitted, if the presence of a relevant substance is newly identified, please report it to Epson promptly. In addition, please notify Epson in accordance with the manual and usage rules in 1) the chemSHERPA file or 2) the specified format. The relevant substances are listed on the website below.

J-CHECK - Class I Specified Chemical Substances

https://www.nite.go.jp/chem/jcheck/list6.action?request\_locale=en&category=211

### 5. Before Transactions Can Begin

Epson presents new suppliers with the latest version of this standard before beginning new transactions. Please complete and submit to Epson the separately requested survey forms to meet the expectations in "4. Epson's Expectations of Suppliers" to (1) comply with this standard and (2) build and maintain a product substance assurance system.

Epson will evaluate your answers and decide whether transactions can begin.

### 6. When This Standard is Revised

Epson will present the revised version of this standard to you at least 30 days before the effective date each time it is updated. Please review the revised version, agree to comply with it, and notify Epson to that effect. In general, you should use the electronic survey system prescribed by Epson for notification purposes.

If you do not agree to the revised content, please contact Epson by the effective date of the revised version.

If you do not contact us, Epson will assume that you have accepted the revised version of this standard.

If Epson does not notify you at least 30 days before the effective date of the revised version, we will separately discuss how to handle the situation with you.

### 7. Information Handling

Generally, the documents and information that you provide for product substance control will be used only within the Epson Group. However, we may share your information with third parties if required to do so by a public agency or certification authority or by an Epson customer or other delivery destination. In this case, care will be taken to ensure your anonymity. We handle personal data in accordance with legal, regulatory, and other requirements.

### 8. Requests Regarding the Assurance System for Substances in Products

Below are the requirements regarding suppliers' assurance system for substances in products.

### 8.1 Establishment of policies and plans

### **8.1.1 Preparation of policies**

Establish and maintain policies that incorporate actions relating to product substance control.

### **8.1.2** Identification of requirements

### (1) Identification of legal, regulatory, and customer requirements

Control documents describing laws, regulations, and customer requirements relating to products. Keep this information up to date. Communicate information relating to product substance control to other internal departments that need it.

### Key points

Exercise close internal management of substance groups specified by laws, regulations, and Epson. Make information about these substance groups readily available for viewing by all departments that need access to such information.

### (2) Definition of the scope of control

Specify the processes and substances to which product substance control applies.

### 8.1.3 Drafting targets and plans

Define the scope of control, and set clear internal targets and plans in line with the scope of control.

### Key points

Prepare plans to eliminate any substances that are scheduled for prohibition in the future and monitor progress. This should result in meeting the legal, regulatory, and Epson requirements.

### 8.1.4 Definition of the system, roles, authority

Establish a system (responsible person and organization) for product substance control.

### Key points

- Establish a shipping assurance system, and clearly identify the responsible departments and persons [when launching new products, in mass production, when there is a 4M change (a change in man, machine, material, and manufacturing method), in supplier management, etc.].
- If using alternative goods, decide what departments are to be responsible for selecting and evaluating alternatives, and ensure that quality, legal, regulatory, and Epson requirements are met

### 8.1.5 Document control

Prepare documents (including records) relating to product substance control and have in place a system for maintaining and controlling the documents.

### Key points

• Document the specific procedures based on the shipping assurance system described above in item 8.1.4. Control all forms that are used.

### 8.1.6 Training

Identify your training needs and establish a curriculum that suits those needs and that is useful in enabling people to acquire sufficient knowledge about chemicals and other substances themselves and about their control. Provide systematic training to all employees who need it.

### Key points

Prepare and implement a plan that follows a training curriculum so that legal, regulatory and Epson requirements are understood and so that operations are carried out by people who have the required knowledge and skills.

### 8.2 Implementation and operation

### 8.2.1 Design & development

Identify and implement the things that should be done in the product design and development process (design and verification) in order to avoid using substances prohibited in products.

### Key points

- Specify materials in specifications, drawings, and other documentation, and clearly note requirements regarding the avoidance of prohibited substances.
- Communicate legal, regulatory, and Epson requirements to your suppliers.
- Check that the production materials used conform to all legal, regulatory, and Epson requirements.

### 8.2.2 Obtaining and checking substance content information

Check that all product substance information obtained from suppliers is complete and proper. Carefully check the information against the requirements.

### Key points

Establish a form that allows you to check that all legal, regulatory and Epson requirements are met. Check whether the production materials procured with this form conform to all legal, regulatory, and Epson requirements.

### **8.2.3** Procurement management

Check whether the suppliers of the components and raw materials that comprise your products are properly controlling substances contained in products. You should have a system for urging and implementing improvements.

### Key points

- Require suppliers to build and maintain a product substance assurance system based on this Green Purchasing Standard.
- Procure goods from suppliers that conform to the requirements of this Green Purchasing Standard.
- Confirm and instruct suppliers on the things they need to do based on this Green Purchasing Standard. Rectify any problems.
- Ask suppliers to request that secondary suppliers and other suppliers all the way down the supply chain build and maintain a product substance assurance system.

### 8.2.4 Manufacturing process

### (1) Incoming checks

Clearly specify and implement inspection methods and criteria for substances in products within your own incoming checks. Check physical goods by using the proper analytical measurement methods.

### Key points

- Check the data for incoming components and raw materials or conduct screening analysis to confirm that they conform to all legal, regulatory, and Epson requirements.
- If you cannot ascertain the state of control exercised over incoming components and raw materials (because recycled materials were used, etc.), physically inspect the item to verify conformance to legal, regulatory and Epson requirements.

### (2) Process control

1) Control processes in a way that prevents commingling and contamination (including migration) in manufacturing processes and that prevents processes and goods from being affected by oxidation, vaporization, chemical reactions, changes in material concentrations, and so forth.

### Key points

- Use separate production lines for products that have different legal, regulatory and customer requirements to prevent commingling and contamination. If lines cannot be separated, clearly specify and implement means to prevent the commingling of and contamination by substances prohibited in products in mixed product processes.
- Identify products according to legal, regulatory, and customer requirements.
- If you have inventory that includes substances prohibited in products, store goods that contain prohibited substances separately from those that do not. Keep records about goods that do and do not contain prohibited substances. For substances such as phthalates that are known to migrate from article to article, assess the risk of contamination from them in-process and implement preventive measures.
- Do not use prohibited substances in processes used to manufacture production materials destined for Epson (Appendix 1: 2.2).

# 2) Require contract manufacturers to comply with the requirements for controlling substances in products. Prepare and use a system for periodically checking, giving instructions on, and auditing the state of control at contract manufacturer sites.

### Key points

- Require contract manufacturers to build and maintain a product substance assurance system based on this Green Purchasing Standard.
- Confirm and instruct contract manufacturers on the things they need to do based on this Green Purchasing Standard. Rectify any problems.
- Request that contract manufacturers and others down the supply chain build and maintain a product substance assurance system.
- Ask contract manufacturers not to use substances prohibited from use in manufacturing processes (see item 2.2 in Appendix 1) in manufacturing processes for production materials destined for Epson.

### 8.2.5 Change control

Establish and strictly follow change control rules involving product substance control.

### Key points

- Provide and follow clear procedures for 4M changes
- Define as a 4M change any change that has the potential to affect substances present in products. This includes things such as a change in manufacturer or a change in raw materials.
- Verify that the 4M change will not lead to problems.
- Epson needs to verify any changes that have the potential to affect the substances present in products. Notify your point of contact at Epson before implementing changes.
- Wait for Epson to check the situation before making a 4M change.
- Control changes in the same way for your own suppliers.

### 8.2.6 Shipping verification

Perform shipping verification in all processes relating to product substance control. Shipping decisions must be made on the basis of reliable data.

### Key points

Specify and implement a method for verifying that all legal, regulatory and Epson requirements have been met. Keep records of the results of verification.

### **8.2.7** Handling nonconformance

Nonconforming goods must be disposed of appropriately (including to prevent commingling with conforming products). Put in place a system for promptly reporting nonconformances to all stakeholders (officers, managers, relevant departments, suppliers, customers, etc.). Investigate the causes of accidents and take action to prevent recurrence.

### Key points

- Establish who is to be responsible for reporting to Epson in the event of a nonconformance and establish the reporting procedure.
- Establish and implement a method (lot tracing) that enables you to identify nonconforming goods.
- Establish and implement clear corrective actions and preventive actions.

### 8.2.8 Providing information

Calculate data on specific substances contained in products so that you can provide accurate information to customers and third parties.

### Key points

Establish a route for providing information in response to inquiries from Epson.

### 8.3 Inspection and issues needing correction

Conduct internal audits to assess product substance control practices.

### Key points

- Check that procedures relating to product substance assurance are being observed. Rectify any problems.
- Conduct checks at supplier and contract manufacturer sites in accordance with "8.2.3 Procurement management" and "8.2.4 (2) Process control."

### **8.4** Management review

When an internal audit shows that a problem exists, create targets, action plans, and/or other means to resolve the problem.

### Key points

Continuously improve your assurance system based on the results of checks described in "8.3 Inspection and issues needing correction."

# **Appendix 1: Substance Handling Standards**

### 1. Explanation of Terms

(1) substance prohibited in products

A substance to which criteria (requirements, thresholds, etc.) regarding prohibition of inclusion in Epson products (including supplied accessories, options, packaging materials, etc.) are applied. These substances are classified into the following two categories:

Level 1 prohibited substances: Substances to which criteria apply currently.

Level 2 prohibited substances: Substances to which criteria apply from a specified date in the future.

(2) substance prohibited from use in manufacturing processes A substance whose use is banned by Epson in manufacturing processes for production materials.

### (3) substance

A chemical element or compound that either exists in nature or is obtained through a manufacturing process.

### (4) present/included

This means that a substance is present in a component or material that comprises a product, regardless of whether the substance was added intentionally. Substances are considered to be present or included in products even if the substances remain in a product as impurities or if they are present due to unintentional mixing or contamination (including migration) from auxiliary materials, packaging, or other sources during the product manufacturing, storage, or transportation processes.

Substances will not be considered present or included in any of the following cases, except where threshold values are specified in this standard:

- 1. A substance resides in a product due to factors that are generally not possible to foresee.
- 2. Quantitative data regarding the concentration of a substance that resides in a product cannot be obtained because it is present in only traces levels.

### (5) intentional inclusion

This means that a substance remains in a component or material that comprises a product due to having been intentionally added or generated through a chemical reaction to bring specific characteristics, appearance, properties, functions, or qualities to the product.

### (6) impurity

An impurity is a substance that is present in a naturally occurring material and that cannot be completely removed by technical means in a typical refining process for industrial material. An impurity may also be a substance that was produced synthetically and cannot be completely removed by technical means in a typical refining process.

### (7) threshold

Threshold refers to the maximum allowable value of a specific substance that remains in components or materials that make up a product. In most cases, thresholds are defined using concentration as the measure, but there are also instances where thresholds are defined using different quantities.

### (8) concentration

(weight of the substance) / (weight of part in which the substance is present)
Since the denominator of the concentration differs depending on the law or regulation, please calculate the concentration of the substance based on the denominator specified for the threshold in this standard.

### (9) homogeneous material

One material of uniform composition throughout or a material, consisting of a combination of materials, that cannot be disjointed or separated into different materials by mechanical actions.

(10) article

An object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition; production materials other than chemical substances and mixtures (preparations) are considered to be articles.

(11) mixture (preparation)

A mixture intentionally comprising two or more chemical substances. Examples are paints, inks, alloy ingot, solder, resin pellets containing additives, etc.

- (12) Scope of Application (item in the table of substances prohibited in products)

  This item specifies the types of products, components, materials, and uses that the criteria for the substances listed in the table cover.
- (13) Requirements and Thresholds (item in the table of substances prohibited in products)
  This item specifies requirements that must be met for conformance. It indicates whether the presence of a substance is prohibited and lists concrete threshold values.
- (14) Exemptions (item in the table of substances prohibited in products)

  This item specifies the products, components, materials, uses or conditions to which the criteria for substances in the table do not apply. Even if products, components, materials, uses or conditions fall under the Scope of Application, the criteria do not apply if they fall under an exemption.
- (15) Referenced Regulations (item in the table of substances prohibited in products)
  This item specifies representative laws and regulations on which the criteria for substances listed in the table are based. Not all laws and regulations in every country and region are covered. A list of regulations corresponding to the assigned numbers in the table is provided in Table 2.1-4.
- (16) IEC 62474 DSL's ID (item in the table of substances prohibited in products)
  This item specifies the ID (identifier) of chemical substance in Declarable Substance List specified by IEC 62474, and is same as the ID of the compliance assessment information of chemSHERPA-AI.

  However, the "Scope of Application" or the "Requirements and Thresholds", etc. specified in this standard may differ from the Reportable Applications or the Reporting Threshold, etc in
- 2. Substance Group Handling Standards

the DSL of IEC 62474.

Standards for the handling of substance groups are shown in items 2.1 and 2.2 below.

- 2.1 Substances Prohibited in Products
  - Level 1 prohibited substances
  - Level 2 prohibited substances
  - Table 2.1-1 Battery Restrictions
  - Table 2.1-2 EU RoHS Directive Exemptions
  - Table 2.1-3 Examples of Prohibited Substances & Substance Groups
  - Table 2.1-4 Regulations Referenced
  - Table 2.1-5 Analysis Standards
- 2.2 Substances Prohibited from Use in Manufacturing Processes

**2.1 Substances Prohibited in Products**Substances prohibited in products are shown below. Please ensure compliance with the specified criteria (requirements and thresholds, etc.) for the substances.

					•		
No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1	Benzidine and its salts	92-87-5, etc.	All	Presence prohibited	_	16	_
2	4-aminodiphenyl and its salts	92-67-1, etc.	All	Presence prohibited	_	16	_
3	4-nitrodiphenyl and its salts	92-93-3, etc.	All	Presence prohibited	_	16	_
4	Bis (chloromethyl) ether	542-88-1	All	Presence prohibited	_	16	_
5	2-naphthylamine (also known as beta-naphthylamine) and its salts	91-59-8, etc.	All	Presence prohibited	_	16	_
6	Benzene	71-43-2	Rubber cement	5% in a rubber cement solvent containing a diluent	_	16	_
	Polychlorinated biphenyls (PCBs) and specific substitutes		Transformers and capacitors	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 50ppm or less is contained in a transformers and capacitors	6	
7		See Table 2.1-3	All other than the above	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity in pigments 2) When 50ppm or less is contained in a chemical substance, mixture (preparation), or article	11, 17, 25	00046
8	Polychlorinated terphenyls (PCTs)	See Table 2.1-3	All	Presence prohibited *1	_	3	00047
9	Hexachlorobenzene	118-74-1	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity in pigments 2) When 10ppm or less is contained in a chemical substance, mixture (preparation), or article	6, 11, 17	_

	-		Scope of	Requirements and		Referenced	IEC 62474
No.	Substance (Group) Name	CAS No.	Application	Thresholds	Exemptions	Regulations	DSL's ID
10	Aldrin	309-00-2	All	Presence prohibited	When contained as an impurity	6, 11, 17	_
11	Dieldrin	60-57-1	All	Presence prohibited	When contained as an impurity	6, 11, 17	_
12	Endrin	72-20-8	All	Presence prohibited	When contained as an impurity	6, 11, 17	_
13	DDT	50-29-3	All	Presence prohibited	When contained as an impurity	6, 11, 17	_
14	Chlordane or Heptachlor	57-74-9, etc.	All	Presence prohibited	When contained as an impurity	6, 11, 17	_
15	Bis (tributyltin) oxide	56-35-9	All	Presence prohibited	When contained as an impurity	17	00054
16	N,N'-ditolyl-p-phenylenediamine, N-Tolyl-N'-xylyl-p-phenylenediamine, or N,N'-Dixylyl-p-phenylenediamine	27417-40-9 28726-30-9 70290-05-0	All	Presence prohibited	When contained as an impurity	17	_
17	2,4,6-tri-tert-butylphenol	732-26-3	Mixture	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 0.3% or less is contained in a mixture		_
			All other than the above	Presence prohibited	When contained as an impurity		
18	Toxaphene	8001-35-2	All	Presence prohibited	When contained as an impurity	6, 11, 17	_
19	Mirex	2385-85-5	All	Presence prohibited	When contained as an impurity	6, 11, 17	_
20	2,2,2-trichloro- 1,1-bis (4-chlorophenyl) ethanol (Kelthane or Dicofol)	115-32-2	All	Presence prohibited	When contained as an impurity	6, 11, 17	_
21	Hexachlorobuta-1,3-diene	87-68-3	All	Presence prohibited	When contained as an impurity	6, 11, 17, 25	_
22	2-(2H-Benzo[d][1,2,3]triazol-2-yl)- 4,6-di-tert-butylphenol (also known as UV-320)	3846-71-7	All	Presence prohibited	When contained as an impurity	17	00035

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
23	Perfluorooctane sulfonyl fluoride (PFOS-F)*2	307-35-7	All	Presence prohibited	When contained as an impurity	17	_
24	Pentachlorobenzene	608-93-5	All	Presence prohibited	When contained as an impurity	6, 17	_
25	Alpha hexachlorocyclohexane	319-84-6	All	Presence prohibited	When contained as an impurity	6, 17	_
26	Beta hexachlorocyclohexane	319-85-7	All	Presence prohibited	When contained as an impurity	6, 17	_
27	Gamma hexachlorocyclohexane	58-89-9	All	Presence prohibited	When contained as an impurity	6, 17	_
28	Chlordecone	143-50-0	All	Presence prohibited	When c ontained as an impurity	6, 17	_
29	Endosulfan	115-29-7 959-98-8 33213-65-9	All	Presence prohibited	When contained as an impurity	6, 17	_
30	Hexabromocyclododecane (HBCDD)	See Table 2.1-3	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 100ppm or less is contained in a chemical substance, mixture (preparation), or article	6, 17	00020

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
31	Pentachlorophenol or its salts and esters	87-86-5, etc.	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 5ppm or less is contained in a chemical substance, mixture (preparation), or article	6, 17	
32	DBBT (monomethyl-dibromo-diphenyl methane)	99688-47-8	All	Presence prohibited	_	3	
33	DBB (di-μ-oxo-di-n-butyltin hydroxyborane)	75113-37-0	All	Presence prohibited	_	3	
34	Monomethyl-tetrachloro-diphenyl methane	76253-60-6	All	Presence prohibited	_	3	
35	Monomethyl-dichloro-diphenyl methane	81161-70-8	All	Presence prohibited	_	3	_
36	Polybrominated biphenyls (PBB)*1	See Table 2.1-3	All	1,000 ppm in homogeneous material	_	2	00044
37	Hexabromobiphenyl	36355-01-8, etc.	All	Presence prohibited	When contained as an impurity	6, 17	_
38	Polybrominated diphenylethers (PBDE)	See Table 2.1-3	Production materials not subject to the RoHS Directive	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 10ppm or less is contained in a chemical substance, mixture (preparation), or article	6, 11, 17	00045
38		2.1-3	All other than the above	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 1,000ppm or less is contained in homogeneous material	2, 6, 11, 17	
39	Bis(pentabromophenyl) ether (decabromodiphenyl ether; decaBDE)	1163-19-5	All	Presence prohibited		6, 17, 25	00064

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
40	Polychlorinated naphthalene (Cl: 1 or more)	See Table 2.1-3	Transformers and capacitors	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 50ppm or less is contained in a transformers and capacitors	11	00048
			All other than the above	Presence prohibited	When contained as an impurity	6, 17	
41	Asbestos	See Table 2.1-3	All	Presence prohibited	_	3, 11, 25	00003
42	Ozone-depleting substances (CFC, Halon, HBFC, HCFC & others)	See Table 2.1-3	All	Presence prohibited	_	1, 5, 18, 27	00032
43	Dimethyl fumarate	624-49-7	All	Presence prohibited*1	_	3	00016
4.4	Alkanes, C10-13, chloro	See Table	Article	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 1,500ppm or less is contained in article	( 11 15 17	00052
44	(Short chain chlorinated paraffins)	2.1-3	Mixture	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 10,000ppm or less is contained in mixture	6, 11, 15, 17	00052
45	Perfluorooctane sulfonates (PFOS) and its salts*3	See Table 2.1-3	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) The sum of PFOS or any of its salts are contained as impurities in substances, mixtures or articles in concentrations equal to or below 0.025 ppm (25 ppb).	6.17, 34	00124, 00125
46	PFOS-related compounds	See Table 2.1-3	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) The sum of PFOS or any of its salts are contained as impurities in substances, mixtures or articles in concentrations equal to or below 1 ppm (1,000 ppb).	6.17, 34	_

			11 3			1	
No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
47	Nickel and nickel compounds	See Table 2.1-3	Products that come into direct and prolonged contact with the skin, including watch cases and watch belts	Rate of nickel release from products: 0.5 μg/cm²/week	Products that have a non-nickel coating that ensures that the rate of nickel release from products does not exceed 0.5 µg/cm²/week for at least two years under normal usage conditions.	3	00031
			<ul> <li>Clothing or related accessories</li> <li>Textiles other than clothing that come into contact with human skin to an extent similar to clothing</li> <li>Footwear</li> </ul>	75 ppm in homogeneous material	_	3	00019
48 1	Formaldehyde	50-00-0	The following composite wood products: (1) Hardwood plywood - veneer core (HWPW-VC) (2) Hardwood plywood - composite core (HWPW-CC) (3) Particleboard (PB) (4 Medium density fiberboard (MDF) (5) Thin medium density fiberboard (Thin MDF) (6) Finished goods that contain (1)-(5)	Presence is prohibited if the following regulatory requirements are not satisfied:  • California Code of Regulations title17, \$93120-93120.12  • TSCA Title VI  • Canada SOR/2021-148	Exempt if any of the following apply: - Packaging materials - Products where the final place of consumption is outside either of the following two countries: - United States - Canada	28, 38	
			All	100 ppm in homogeneous material	Exemptions: Table 2.1-2	2	00010
			Stabilizers, pigments, paints/inks, and plating used in products	75 ppm in homogeneous material	_	14	_
40	Cadmium and	See	Batteries	See Table 2.1-1	_	Table 2.1-1	00011
49	cadmium compounds		Packaging materials	Intentional inclusion prohibited. 100 ppm in total for heavy metals (lead, mercury, cadmium, and hexavalent chromium) present in materials as impurities.	_	7, 31	_

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID										
	17		All	1,000 ppm in homogeneous material	_	2	00012										
			Leather articles and articles	Prohibited in leather parts in concentrations													
	TT 1 4		containing leather parts that	equal to or greater than 3 ppm of the total dry	_	3											
50	Hexavalent	See Table	See Table	come into contact with the skin	weight of the leather.												
50	chromium	2.1-3	2.1-3	2.1-3		Intentional inclusion prohibited											
	compounds		100 ppm in total for heavy metals (lead,			7 21											
			Packaging materials	mercury, cadmium, and hexavalent chromium)	_	7, 31											
				present in materials as impurities.													
			All	1,000 ppm in homogeneous material	Exemptions: Table 2.1-2	2, 3	00021										
						Plastics, paints, and inks used	Prohibited in homogeneous materials in		13								
								in products	concentrations equal to or greater than 100 ppm								
							Batteries	See Table 2.1-1	_	Table 2.1-1	00025						
			Intentional inclusion prohibited.														
			Packaging materials	100 ppm in total for heavy metals (lead,	_	7, 31											
			T dekaging materials	mercury, cadmium, and hexavalent chromium)		7, 31											
		See Table								-	-		The		present in materials as impurities.		
			Thermoset and thermoplastic-		If the amount has been												
51	Lead and lead		sheathed electrical wires,	300 ppm in surface coating material	reported to and approved	32	00024										
	compounds	2.1-3	cables and cords:		by Epson												
					Exempt if any of the												
					following apply:												
					1) internal watch parts												
			Jewelry	Prohibited in individual parts in	that consumers do												
			(including watch bands)	concentrations equal to or greater than	not touch	3											
				500 ppm	2) crystal glass												
					3) natural gems that												
					have not been treated												
	Lead				with a lead additive												
52	carbonate	598-63-0	Paint/Ink	Presence prohibited	_	13											
53	Lead sulfate	7446-14-2	Paint/Ink	Presence prohibited	_	13	_										

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
			All	Intentional inclusion prohibited. Or, 1,000 ppm in homogeneous material	Exemptions: Table 2.1-2	2, 12	00029
54	Mercury and mercury compounds	See Table	Batteries	See Table 2.1-1	_	Table 2.1-1	00030, 00132
		2.1-3	Packaging materials	Intentional inclusion prohibited 100 ppm in total for heavy metals (lead, mercury, cadmium, and hexavalent chromium) present in materials as impurities.	_	7, 31	_
55	Azocolourants and azodyes which form certain aromatic amines*5	_	Parts that contact the human body in products designed to come into direct and prolonged contact with the human body	Presence prohibited	_	3	00004
56	Azodyes contained in the list of azodyes (see Table 2)	See Table 2	Substance or mixture intended for coloring leather and textile articles	Use as a substance is prohibited. Or, 1,000 ppm in mixtures	_	3	_
57	Cobalt chloride*6	7646-79-9	Silica gel and other preparations	100 ppm in silica gel and other preparations	_	3	00013
58	Tri-substituted organostannic compounds*7	See Table 2.1-3	All	1,000 ppm in articles and their parts (calculated as a tin equivalent)	_	3, 15, 17	00055
59	Dioctyltin (DOT) compounds	See Table 2.1-3	<ul> <li>Textile or leather articles intended to come into contact with the skin</li> <li>Footwear</li> <li>Childcare articles</li> <li>Two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)</li> </ul>	1,000 ppm in articles and their parts (calculated as a tin equivalent)	_	3	00015
60	Dibutyltin (DBT) compounds	See Table 2.1-3	Mixtures (preparations) and articles and their parts for the general public	1,000 ppm in mixtures (preparations) and articles and their parts (calculated as a tin equivalent)		3	00014

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
	Di (2-ethylhexyl) phthalate (DEHP) Dibutyl phthalate (DBP) Benzyl butyl phthalate (BBP) Diisobutyl phthalate (DIBP)		All	1,000 ppm of each substance in homogeneous materials	_	2	00038, 00039, 00040, 00041
61		117-81-7 84-74-2 85-68-7 84-69-5	Production materials not subject to the RoHS Directive (examples: carrying cases, screens, packaging materials, batteries, instruction manuals)	Prohibited in plasticized material*8 in concentrations equal to or greater than 1,000 ppm of total DEHP, DBP, BBP, and DIBP.	Production materials corresponding to the conditions in both 1) and 2) below:  1) Production materials are not in contact with human mucous membranes and are not in prolonged contact with human skin.  2) Production materials for products exclusively for industrial or agricultural use, or for use exclusively in the open air.	3	00036
62	Polyvinyl chloride (PVC)	9002-86-2	Packaging materials	Intentional inclusion prohibited	Packaging materials for industrial products	21	_
63	Red phosphorus	7723-14-0	Resin materials used in electrical or electronic parts	1,000 ppm in resin materials	Exempt if any of the following apply:  1) Present in parts or locations that are not involved in the electrical insulation between different electrodes  2) Red phosphorus is coated with a waterproof substance or a corresponding action has been taken to effectively control the generation of phosphate.	Epson policy*9	_
64	PAH Benzo[a]pyrene Benzo[e]pyrene Benzo[a]anthracene Chrysene Benzo[b]fluoranthene Benzo[j]fluoranthene Benzo[k]fluoranthene Dibenzo[a,h]anthracene	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9 53-70-3	Production materials containing rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the skin or oral cavity	Prohibited in applicable parts and materials in concentrations of 1 ppm or more		3	00108, 00109, 00110, 00111, 00112, 00113, 00114, 00115

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
65	4,4'-isopropylidenediphenol (bisphenol A, BPA)	80-05-7	Thermal paper (Includes adhesive labels using thermal paper	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) Unintensional inclusion 2) When 200ppm or less is contained in thermal paper	3, 11	00141
66	4,4'- sulfonyldiphenol (bisphenol S, BPS)	80-09-1	Thermal paper (Includes adhesive labels using thermal paper	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) Unintensional inclusion 2) When 200ppm or less is contained in thermal paper	11	_
67	Bisphenols *10	See Table 2.1-3	Thermal paper (Includes adhesive labels using thermal paper	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) Unintensional inclusion 2) The sum of Bisphenols contained in thermal paper is below 200 ppm	42	_
68	Perfluorooctanoic acid (PFOA) and its salts *11	See Table 2.1-3	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below:  1) When contained as an impurity  2) The sum of PFOA or any of its salts are contained in substances, mixtures or articles in concentrations equal to or below 0.025 ppm (25 ppb).	6, 17	00160
69	PFOA-related compounds *12	See Table 2.1-3	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below:  1) When contained as an impurity 2) Any individual PFOA-related compound or a combination of PFOA-related compounds are contained in substances, mixtures or articles in concentrations equal to or below 1 ppm (1,000 ppb).	6, 17	00161
70	Long-chain perfluoroalkyl carboxylate subject to the TSCA Significant New Use Rule*13	See Table 3	Parts that have a surface coating (including platings) and in materials for coatings	Intentional inclusion prohibited	_	26	_

	C. L. (C. ) N		Scope of	Requirements	P	Referenced	IEC 62474
No.	Substance (Group) Name	CAS No.	Application	and Thresholds	Exemptions	Regulations	DSL's ID
71	Phenol, isopropylated phosphate (3:1) [PIP(3:1)]	68937-41-7	All	Presence prohibited	_	25	00174
72	Pentachlorothiophenol (PCTP)	133-49-3	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) 10,000 ppm (1 wt%) or less as delivered 2) The amount was reported to and approved by Epson	25	_
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	See Table 2.1-3	Applications in Table 4	Intentional inclusion prohibited	_	8	00018
74	Perfluorohexane sulfonic acid (PFHxS) and its salts *14	See Table 2.1-3	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) The sum of PFHxS or any of its salts are contained in substances, mixtures or articles in concentrations equal to or below 0.025 ppm (25 ppb).	6, 11, 17	00143
75	PFHxS-related compounds*15	See Table 2.1-3	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) Any individual PFHxS-related compound or a combination of PFHxS-related compounds contained in substances, mixtures or articles in concentrations equal to or below 1 ppm (1,000 ppb).	6, 11	00205
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts*16	See Table 2.1-3	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) The sum of C9-C14 PFCAs and their salts are contained in substances, mixtures, or articles is below 0.025 ppm (25 ppb).	3	00182
77	C9-C14 PFCA-related compounds*17	See Table 2.1-3	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) The sum of C9-C14 PFCA-related compounds are contained in substances, mixtures, or articles is below 0.26 ppm (260 ppb).	3	00183

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced	IEC 62474
INO.	Substance (Group) Name	CAS No.		Requirements and Thresholds	Exemptions	Regulations	DSL's ID
78	Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings	_	Packaging material and printed paper (warranties, manuals, etc.)	1,000 ppm in printing ink	_	39	_
79	Mineral oil aromatic hydrocarbons (MOAH) comprising 3 to 7 aromatic rings	_	Packaging material and printed paper (warranties, manuals, etc.)	1 ppm in printing ink	_	39	_
80	Mineral oil saturated hydrocarbons (MOSH) comprising 16 to 35 aromatic rings	_	Packaging material and printed paper (warranties, manuals, etc.)	1,000 ppm in printing ink	_	39	_
81	Dechlorane Plus, its syn-isomer and its anti-isomer (1,4:7,10 Dimethanodibenzo[a,e]cyclooctene, 1,2,3,4,7,8,9,10,13,13,14,14 dodecachloro1, 4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-)	13560-89-9 135821-03-3 135821-74-8	All	Presence prohibited	_	6, 17	00147
82	Long-chain perfluorocarboxylic acids(C9-C21 PFCAs), their salts and C9-C21 PFCA related compounds*18	See Table 2.1-3	All	Intentional inclusion prohibited	_	41	_
83	Perfluorohexanoic acid (PFHxA), its salts*19	See Table 2.1-3	Production materials made from textiles, leather, furs and hides	Prohibited in concentrations equal to or greater 0.025 ppm (25 ppb) for the sum of PFHxA and its salt in homogeneous material	_	3	_
84	PFHxA-related substances*20	See Table 2.1-3	Production materials made from textiles, leather, furs and hides	Prohibited in concentrations equal to or greater 1 ppm (1,000 ppb) for the sum of PFHxA-related substances in homogeneous material	_	3	_

Level	el 1 prohibited substances: Substances to which criteria apply currently									
No.	Substance (Group) Name	CAS No.	Scope of Application  Textile articles consisting	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID			
	Per- and poly-fluoroalkyl substances (PFAS) *21			Intentional inclusion prohibited. Presence in fibrous materials in concentrations equal to or greater than 100 ppm as total organic fluorine is prohibited, regards to unintentional inclusion.	_	40				
85		See Table 2.1-3	Printing media for food contact packaging	Presence prohibited in concentrations equal to or greater than 25 ppb as individual substance in individual materials  Presence prohibited in concentrations equal to or greater than 250 ppb for the sum of PFAS in individual materials	When applicable to polymeric PFAS*22	7	00193			
				Presence prohibited in concentrations equal to or greater than 50 ppm for the sum of PFAS in individual materials	_					
86	2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)	25973-55-1	All	Presence prohibited	Valid until August 31, 2029, for the following uses: Contained in triacetylcellulose film inside polarizers *This is designated as a Level 2 prohibited substance.	6, 17	00130			
87	Medium-chain chlorinated paraffins (MCCP) *23	See Table 2.1-3	All	Presence prohibited	Valid until May 31, 2031, for the following uses: - Flexible elastomeric foam for thermal insulation - Adhesives and sealants for waterproof coatings and anticorrosion coatings - Fatliquoring component in leather, except in children's products *These are designated as a Level 2 prohibited substance.	41	00178			

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
88	Plastic external enclosures of electric and electronic products powered by battery or 120V outlets*24  Halogenated Flame Paterdants  Recordents	Intentional inclusion prohibited.  To unintentional inclusion, any of following case are prohibited:  - Total bromine concentrations above 1,000 ppm in the homogeneous material  - Total chlorine concentrations	Exempt if any of the following apply:  - External enclosures of products that receive power only when they are hard wired into and permanently part of the fixed electrical wiring of a building.  - Plastic external enclosure parts that weigh less than 0.5 grams.  Plastic molding materials that Epson has	42	00171		
88		2.1-3	Plastic molding materials	above 1,000 ppm in the homogeneous material  - Total fluorine concentrations above 1,000 ppm with less than 5,000 ppm total phosphorus in the homogeneous material	approved or instructed to contain halogenated flame retardants (e.g., molding materials used for purposes other than the external enclosures of electrical and electronic products powered by batteries or 120V outlets)		

Level 2 prohibited substances: Substances to which criteria apply from a specified date in the future

	= promisited substances	· susstance	s to which criteria apply from a s	secimen mate in the future	1			,
No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Effective Date	Referenced Regulations	IEC 62474 DSL's ID
1	Per- and poly-fluoroalkyl substances (PFAS) *21	See Table 2.1-3	Textile articles consisting of fibers, yarns and fabrics that include below - Natural fiber - Manmade fiber - Synthetic fiber - Natural leather, synthetic leather	Intentional inclusion prohibited. Presence in fibrous materials in concentrations equal to or greater than 50 ppm as total organic fluorine is prohibited, regards to unintentional inclusion.	_	January 1, 2026	40	00193
2	2-(2H-Benzotriazol-2-yl) -4,6-di-tert-pentylphenol (UV-328)	25973-55-1	Triacetylcellulose film inside polarizers  *This is designated as exemption for Level 1 prohibited substance. The exemption will end at the effective date on the right, and the requirements and thresholds will be applied to all.	Presence prohibited	_	September 1, 2029	6, 17	00130
3	Medium-chain chlorinated paraffins (MCCP) *23	See Table 2.1-3	<ul> <li>Flexible elastomeric foam for thermal insulation</li> <li>Adhesives and sealants for waterproof coatings and anticorrosion coatings</li> <li>Fatliquoring component in leather, except in children's products</li> <li>*These are designated as exemption for Level 1 prohibited substance.</li> <li>The exemption will end at the effective date on the right, and the requirements and thresholds will be applied to all.</li> </ul>	Presence prohibited		June 1, 2031	41	00178

Treatment of Substances Regulated by REACH Regulation No. 1907/2006

Substances subject to restrictions under Annex X-VII shall be handled as required by law.

Reference: European Chemical Agency website <a href="https://echa.europa.eu/web/guest/home">https://echa.europa.eu/web/guest/home</a>

IEC 62474 and other sources were used for the CAS No. Not all substances prohibited in products are covered. See Table 2.13 "Examples of Prohibited Substances & Substance Groups".

For referenced regulations, see Table 2.1-4 "Regulations Referenced".

### Notes/Comments on substances

- \*1 Threshold per Epson policy
- \*2 Perfluorooctane sulfonyl fluoride (PFOS-F). A type of PFOS-related compound
- \*3 Linear and branched compounds of the formula C<sub>8</sub>F<sub>17</sub>SO<sub>3</sub>H. Also known as perfluorooctane sulfonic acid.
- \*4 PFOS-related substances: Substance groups having C<sub>8</sub>F<sub>17</sub>SO<sub>2</sub>X [X= halide, amide, and other derivatives including polymers]
- \*5 "Azocolourants and azodyes which form certain aromatic amines" means azo dyes/pigments that have the potential to generate aromatic amines listed in Table 1 at levels exceeding 30 ppm within the colored parts.
- \*6 Indicator cards are exempt because there are no risk of aspirating cobalt chloride under ordinary conditions (ordinary use).
- \*7 Tri-substituted organostannic compounds is refers to tributyltin (TBT) compounds / triphenyltin (TPT) compounds / other tri-substituted organostannic compounds.

  However, Bis (tributyltin) oxide is designated as a Level 1 prohibited substance since it belongs to a group of substances that is banned under Japan's Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances. (See No. 15.)
- \*8 "Plasticized material" means any of the following homogeneous materials:
  - polyvinyl chloride (PVC), polyvinylidene chloride (PVDC), polyvinyl alcohol (PVA), polyurethanes;
  - any other polymer (including, inter alia, polymer foams and rubber material) except silicone rubber and natural latex coatings;
  - surface coatings, non-slip coatings, finishes, decals, printed designs;
  - adhesives, sealants, paints and inks.
- \*9 To prevent a fire
  - For details on red phosphorus, see https://corporate.epson/ja/sustainability/supply-chain/pdf/seg k 0100 rp e.pdf
- \*10 "Bisphenol" means substances with two phenol rings connected by a single linker atom. The linker atom and phenol rings may have additional substituents
- \*11 Also known as perfluorooctane acid.
- \*12 PFOA-related compounds:
  - Any substances (including salts and polymers) having a linear or branched perfluoroheptyl group with the moiety  $(C_7F_{15})C$  as one of the structural elements.
  - However, the following compounds are not included:
    - $C_8F_{17}$ -X, where X = F, Cl, Br
    - fluoropolymers that are covered by  $CF_3[CF_2]_n$ -R', where R' = any group, n> 16
    - perfluoroalkyl carboxylic acids (including their salts, esters, halides and anhydrides) with  $\geq 8$  perfluorinated carbons
    - perfluoroalkane sulfonic acids and perfluoro phosphonic acids (including their salts, esters, halides and anhydrides) with ≥ 9 perfluorinated carbons
    - perfluorooctane sulfonic acid, its salts and PFOS-related substances
- \*13 Applies to substances specified in 40 C.F.R. § 721.10536 (b) (2). See the Federal Register Notice for details.
- \*14 Also known as perfluorohexane sulfonic acid.
- \*15 PFHxS-related compounds: Any substances (including salts and polymers) having a linear or branched perfluorohexyl group with the formula  $C_6F_{13}$  directly attached to a sulfur atom as one of the structural elements and that degrade to PFHxS
- \*16 C9-C14 PFCAs:
  - Linear and branched perfluorocarboxylic acids of the formula  $C_nF_{2n+1}$ -C(=O)OH, where  $n=8,\,9,\,10,\,11,\,12,\,or\,13$

### \*17 C9-C14 PFCA-related substances:

- Any substance (including salts and any combinations thereof) having a perfluoro group with the formula  $C_nF_{2n+1}$  directly attached to another carbon atom, where n = 8, 9, 10, 11, 12, or 13, and that has the potential to degrade to C9-C14 PFCAs
- Any substance (including salts and any combinations thereof) having a perfluoro group with the formula CnF2n +1- that it is not directly attached to another carbon atom, where n = 9, 10, 11, 12, 13 or 14 as one of the structural elements and that has the potential to degrade to C9-C14 PFCAs
- However, the following substances are not included:
- $C_nF_{2n+1}$ -X, where X = F, Cl, or Br and n = 9, 10, 11, 12, 13 or 14, including any combinations thereof
- $C_nF_{2n+1}$ -C(= O)OX', where n > 13 and X' = any group, including salts
- \*18 Long-chain perfluorocarboxylic acids(C9-C21 PFCAs):
  - Linear and branched perfluorocarboxylic acids of the formula  $C_nF_{2n+1}$ -C(=O)OH, where  $n=8,\,9,\,10,\,11,\,12,\,13,\,14,\,15,\,16,\,17,\,18,\,19$  and 20.

### C9-C21 PFCA-related substances:

- Any substance (including salts and any combinations thereof) having a perfluoro group with the formula  $C_nF_{2n+1}$  directly attached to another atom, where n = 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 and 20, and that has the potential to degrade to C9-C21 PFCAs
- However, the following substances are not included: Perfluorooctane acid, its salts and PFOA-related compounds
- \*19 Linear and branched perfluorocarboxylic acids of the formula  $C_5F_{11}C(=O)OH$ . Also known as Undecafluorohexanoic acid.
- \*20 PFHxA-related compounds:

Linear or branched perfluoropentyl group with the formula  $C_5F_{11}$ - directly attached to another carbon atom as one of the structural elements and linear or branched perfluorohexyl group with the formula  $C_6F_{13}$ -. However, the following substances are not included:

- $C_6 F_{14}$
- $C_6F_{13}$ -C(=O)OH,  $C_6F_{13}$ -C(=O)O-X' or  $C_6F_{13}$ - $CF_2$ -X' (where X' = any group, including salts)
- any substance having a perfluoroalkyl group C<sub>6</sub>F<sub>13</sub>- directly attached to an oxygen atom at one of the non-terminal carbon atoms.
- \*21 "Per- and poly-fluoroalkyl substances (PFAS)" means a class of fluorinated organic chemicals containing at least one fully fluorinated carbon atom.
- \*22 "Polymeric PFAS" refers to PFAS with a molecular structure characterized by an arrangement of one or more types of monomer units, and a molecular weight distribution that primarily results from differences in the number of polymerized monomers.
- \*23 "Medium-chain chlorinated paraffins" refers to chlorinated paraffins with carbon chain lengths in the range C14–17 and chlorination levels at or exceeding 45 per cent chlorine by weight.
- \*24 "Plastic external enclosures of electric and electronic products" refer to the external plastic parts of finished products that serve one or both of the following purposes.

  This includes the enclosures of external power supplies.
  - 1) To prevent contact with all or part of the equipment that may pose a risk of electric shock.
  - 2)To delay the spread of flames caused by internal electrical failures of the equipment.

The following are not considered plastic enclosures of electrical and electronic equipment:

- Internal components that cannot be touched when the product is fully assembled and functional
- Display areas of electronic screens
- Wires, cords, cables, light bulbs, and connectors

Table 1: List of Some Aromatic Amines

No.	Substance Name	CAS No.
1	Biphenyl-4-ylamine	92-67-1
2	Benzidine	92-87-5
3	4-chloro-o-toluidine	95-69-2
4	2-naphthylamine	91-59-8
5	o-aminoazotoluene	97-56-3
6	5-nitro-o-toluidine	99-55-8
7	4-chloroaniline	106-47-8
8	4-methoxy-m-phenylenediamine	615-05-4
9	4,4'-methylenedianiline	101-77-9
10	3,3'-dichlorobenzidine	91-94-1
11	3,3'-dimethoxybenzidine	119-90-4
12	3,3'-dimethylbenzidine	119-93-7
13	4,4'-methylenedi-o-toluidine	838-88-0
14	6-methoxy-m-toluidine	120-71-8
15	4,4'-methylene-bis(2-chloroaniline)	101-14-4
16	4,4'-oxydianiline	101-80-4
17	4,4'-thiodianiline	139-65-1
18	o-toluidine	95-53-4
19	4-methyl-m-phenylenediamine	95-80-7
20	2,4,5-trimethylaniline	137-17-7
21	o-anisidine	90-04-0
22	4-amino azobenzene	60-09-3

Table 2: List of azodyes

Substance Name	CAS No.
A mixture of disodium(6-(4-anisidino)-3-sulfonato-2-(3.5-dinitro-2-oxidophenylazo)	Not allocated
-1-naohtholato)(1-(5-chloro-2-oxidophenylazo)-2-naphtholato)chromate(1-);	Component 1:
	CAS-No.:118685-33-9
trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-	C <sub>39</sub> H <sub>23</sub> ClCrN <sub>7</sub> O <sub>12</sub> S.2Na
naphtholato)chromate(1-)	Component 2:
	$C_{46}H_{30}CrN_{10}O_{20}S2.3Na$

Table 3: List of long-chain perfluoroalkyl carboxylate subject to the TSCA Significant New Use Rule\*13

No.	Substance (Group) Name	CAS No.	Notes
1	Sodium;2-methylpropane-1-sulfonate	68187-47-3	Use in adhesives is exempt.
2	1,1,2,2-Tetrahydroperfluoroalkyl (C8-C14) alcohol	68391-08-2	Uses in the manufacture or processing of surface coatings and finishes for surface treatments of textiles, leather, and hard materials (resins, wood, metals, etc.), and in the manufacture of wetting agents are exempt.
3	Thiols, C8-20, gamma-omegaperfluoro, telomers with acrylamide	70969-47-0	_
4	Thiols, C4-20, gamma-omega-perfluoro, telomers with acrylamide and acrylic acid, sodium salts	1078712-88-5	
5	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(2-((gamma-omega-perfluoro-C4-20-alkyl)thio)acetyl) derivs., inner salts	1078715-61-3	
6	Polyfluoroalkyl betaine	CBI	EPA accession number about CBI (Confidential Business Information): 71217
7	Modified fluoroalkyl urethane	CBI	EPA accession number about CBI: 89419
8	Perfluorinated polyamine	CBI	EPA accession number about CBI: 274147
9	Perfluorooctyl iodide	507-63-1	
10	Tetrahydroperfluoro-1-decanol	678-39-7	
11	Perfluoro-1-dodecanol	865-86-1	
12	Perfluorodecyl iodide	2043-53-0	
13	1,1,2,2-Tetrahydroperfluorododecyl iodide	2043-54-1	
14	Perfluorodecylethyl acrylate	17741-60-5	
15	1,1,2,2-Tetrahydroperfluorodecyl acrylate	27905-45-9	Substances included in "No. 69 PFOA-related compounds" in
16	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12- Pentacosafluoro-14-iodotetradecane	30046-31-2	Level 1 Prohibited Substances
17	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,14-Pentacosafluorotetradecan-1-ol	39239-77-5	
18	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,16,16,16-Nonacosafluorohexadecan-1-ol	60699-51-6	
19	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,12,12,13,13,14,14-Nonacosafluoro-16-iodohexadecane	65510-55-6	
20	Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), sodium salt (1:2), reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol	125476-71-3	_

Table 4: Uses for which the intentional inclusion of fluorinated greenhouse gases (PFCs, SF6, HFCs) is prohibited

Substance	Prohibited Uses	Exemptions
	Non-refillable containers, windows, footwear, tires	_
PFCs, SF6, HFCs	One-component foams	Except when required to meet safety standards
HFCs, PFCs	Non-confined direct evaporation systems	_
PFCs, HFC-23	Fire protection equipment	_
	Aerosol generators marketed and intended for sale to the general public for entertainment and decorative purposes; domestic refrigerators and freezers; industrial aerosol products; refrigerators and freezers for commercial use (with a GWP of 2,500 or more); movable room air-conditioning equipment; foam (extruded polystyrene) used for insulation, soundproofing, etc.	_
HFCs (with a GWP of 150 or more)	Stationary refrigeration equipment (with a GWP2500 or more)	Except equipment intended for applications designed to cool products to temperatures below -50 °C
	Refrigerators and freezers for commercial use (with a GWP of less than 2,500) and multipack centralized refrigeration systems for commercial use with a rated capacity of 40 kW or more	_
	Foam used for insulation, soundproofing, etc. (and other foams)	_
	Single split air-conditioning systems containing less than 3 kg of fluorinated GHGs with GWP of 750 or more	_

**Table 2.1-1 Battery Restrictions** 

Pri	mary battery					
Substances prohibited in products, requirements, and thresholds						
Ba	ttery type		Cadmium and cadmium compounds	Lead and lead compounds	Mercury and mercury compounds	Referenced regulations
1 Alkaline battery	Alkalina	Button cell	10 ppm by weight of the battery	40 ppm by weight of the battery	Intentional inclusion prohibited If present as an impurity, 5 ppm in homogeneous material and 25 mg per button cell.	4, 19, 20, 24, 29, 30, 33, 36, 37
		Non- hytter 10 ppm 40 pp	40 ppm by weight of the battery	Intentional inclusion prohibited If present as an impurity, 1 ppm by weight of the battery and 5 ppm in homogeneous material.	4, 19, 20, 22, 23, 24, 29, 33	
2	Manganese battery	All	10 ppm by weight of the battery	100 ppm by weight of the battery	Intentional inclusion prohibited If present as an impurity, 1 ppm by weight of the battery and 5 ppm in homogeneous material.	4, 19, 20, 22, 23, 24, 29, 30, 33, 37
3	Mercury- oxide battery	All		Use prohibited		4, 19, 24, 29, 30
4	Silver-oxide battery	Button cell	20 ppm by weight of the battery	100 ppm by weight of the battery	Intentional inclusion prohibited If present as an impurity,	4, 19, 23, 24, 30, 33,
5	Zinc-air battery	Button cell	20 ppm by weight of the battery	100 ppm by weight of the battery	5 ppm in homogeneous material and 25 mg per button cell.	36
6	Other primary battery	All	20 ppm by weight of the battery	100 ppm by weight of the battery	Intentional inclusion prohibited If present as an impurity, 5 ppm in homogeneous material and 25 mg per button cell.	4, 19, 24, 30, 33, 35, 36

**Table 2.1-1 Battery Restrictions** 

Sec	condary battery						
			Substances prol	nibited in products, requireme	nts, and thresholds		
Bat	ttery type		Cadmium and cadmium compounds	Lead and lead ompounds	Mercury and mercury compounds	Referenced regulations	
7	Ni-MH battery, Button cell		20 ppm by weight of the battery	100 ppm by weight of the battery	Intentional inclusion prohibited If present as an impurity, 5 ppm in homogeneous material and 25 mg per button cell.	4, 19, 24, 33, 36	
/	Alkaline secondary battery	Non-button cell	10 ppm by weight of the battery	100 ppm by weight of the battery	Intentional inclusion prohibited If present as an impurity, 1 ppm by weight of the battery and 5 ppm in homogeneous material.	4, 19, 20, 24, 33, 36	
			Use prohibited except for industrial/commercial batteries*				
8	Lead-acid battery	Industrial / commercial batteries	100 ppm by weight of the battery	_	Intentional inclusion prohibited If present as an impurity, 5 ppm in homogeneous material.	4, 19, 24, 33, 37	
9	Other secondary battery	All	20 ppm by weight of the battery	100 ppm by weight of the battery	Intentional inclusion prohibited If present as an impurity, 5 ppm in homogeneous material and 25 mg per button cell.	4, 19, 24, 33, 36	

<sup>\*</sup> Commercial/industrial battery: A battery weighing 5 kg or more and designed exclusively for industrial or commercial use.

### **Table 2.1-2 EU RoHS Directive Exemptions**

Table 2.1-2 lists exemptions that Epson use and expiration dates set by Epson. If the exemption you use is not listed, please contact to person in charge at delivery destination in Epson.

Reference: EU Commission website https://environment.ec.europa.eu/topics/waste-and-recycling/rohs-directive en

This table lists exemptions and expiration dates for each product category based on legal requirements that are current as of August 1, 2025. If the exemptions and their expiration dates are revised in conjunction with amendments to the exemptions of the EU RoHS Directive, please apply the exemptions and expiration dates for each product category of the latest legal requirements to this table.

Substanc	es: Cadmium and Cadmium Compounds			
No.	Exemption *1	Product categories	Legal expiration date*1	Expiration date set by Epson
		Categories 1-7 and 10	7/21/2021	Already prohibited
8(b)	Cadmium and its compounds in electrical contacts	category 9 other than industrial monitoring and control instruments	To be decided	
		category 9 industrial monitoring and control instruments and category 11	To be decided	
8(b)-I	Cadmium and its compounds in electrical contacts used in: - circuit breakers, - thermal sensing controls, - thermal motor protectors (excluding hermetic thermal motor protectors), - AC switches rated at: - 6 A and more at 250 V AC and more, or - 12 A and more at 125 V AC and more, - DC switches rated at 20 A and more at 18 V DC and more, and - switches for use at voltage supply frequency ≥ 200 Hz.	Categories 1-7 and 10	To be decided	One year prior to the legal expiration date*2
		Categories 1-7 and 10	7/21/2021	Already prohibited
13(b)	Cadmium in filter glasses and glasses used for reflectance standards	Category 9 other than industrial monitoring and control instruments	To be decided	
		Category 9 industrial monitoring and control instruments and category 11	To be decided	One year prior to the legal expiration date* <sup>2</sup>
13(b)-II	Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex	Categories 1-7 and 10	To be decided	uate**2

**Table 2.1-2 EU RoHS Directive Exemptions** 

Substance	es: Lead and Lead Compounds			
No.	Exemption *1	Product categories	Legal expiration date *1	Expiration date set by Epson
		Categories 1-7 and 10	6/30/2019	Already prohibited
6 (a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight	category 9 other than industrial monitoring and control instruments	To be decided	
,	garvantized steel containing up to 0.33% lead by weight	category 9 industrial monitoring and control instruments and category 11	To be decided	One year prior to the legal expiration
6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead weight	Categories 1-7 and 10	To be decided	date *2
		Categories 1-7 and 10	6/30/2019	Already prohibited
6 (b)	Lead as an alloying element in aluminum containing up to 0.4% lead by	category 9 other than industrial monitoring and control instruments	To be decided	
	weight	category 9 industrial monitoring and control instruments and category 11	To be decided	
6 (b)-I	Lead as an alloying element in aluminum containing up to 0.4 % lead by weight, provided it stems from lead-bearing aluminum scrap recycling	Categories 1-7 and 10	To be decided	One year prior to
6 (b)-II	Lead as an alloying element in aluminum for machining purposes with a lead content up to 0.4 % by weight	Categories 1-7 and 10	To be decided	the legal expiration date *2
6 (c)	Copper alloy containing up to 4% lead by weight	Categories 1-7, 10 and category 9 other than industrial monitoring and control instruments	To be decided	
		category 9 industrial monitoring and control instruments and category 11	To be decided	

**Table 2.1-2 EU RoHS Directive Exemptions** 

Substances: Lead and Lead Compounds						
No.	Exemption *1	Product categories	Legal expiration date *1	Expiration date set by Epson		
7 (a)	Lead in high melting temperature type solders (i.e., lead-based alloys containing 85% by weight or more lead)	Categories 1-7, 10 *3 and category 9 other than industrial monitoring and control instruments	To be decided	One year prior to the legal expiration date *2		
		category 9 industrial monitoring and control instruments and category 11	To be decided			
7 (c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g., piezoelectronic devices, or in a glass or ceramic matrix compound	Categories 1-7, 10 *4 and category 9 other than industrial monitoring and control instruments	To be decided			
		category 9 industrial monitoring and control instruments and category 11	To be decided			
7 (c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher (Does not apply to applications covered by point 7(c)-I and 7(c)-IV)	Categories 1-7, 10 and category 9 other than industrial monitoring and control instruments	To be decided			
		category 9 industrial monitoring and control instruments and category 11	To be decided			
7 (c)-IV	Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors	Categories 1-7, 10 and category 9 other than industrial monitoring and control instruments	To be decided			
		category 9 industrial monitoring and control instruments and category 11	To be decided			

**Table 2.1-2 EU RoHS Directive Exemptions** 

Substances: Lead and Lead Compounds							
No.	Exemption *1	Product categories	Legal expiration date *1	Expiration date set by Epson			
13 (a)	Lead in white glass used for optical applications	Categories 1-7, 10 and category 9 other than industrial monitoring and control instruments	To be decided	One year prior to the legal expiration date *2			
		category 9 industrial monitoring and control instruments and category 11	To be decided				
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	Categories 1-7 and 10	7/21/2021	Already prohibited			
		category 9 other than industrial monitoring and control instruments	To be decided				
		category 9 industrial monitoring and control instruments and category 11	To be decided				
15 (a)	Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies:  — a semiconductor technology node of 90 nm or larger;  — a single die of 300 mm² or larger in any semiconductor technology node;  — stacked die packages with die of 300 mm² or larger, or silicon interposers of 300 mm² or larger.	Categories 1-7 and 10	To be decided	One year prior to the legal expiration date*2			
34	Lead in cermet-based trimmer potentiometer elements	Categories 1-7, 10 and category 9 other than industrial monitoring and control instruments	To be decided				
		category 9 industrial monitoring and control instruments and category 11	To be decided				

**Table 2.1-2 EU RoHS Directive Exemptions** 

Substance	: Mercury and mercury compounds			
Epson pro	hibits the use of all exemptions for mercury and mercury compounds e	except those listed below.		
No.	Exemption *1	Product categories	Legal expiration date *1	Expiration date set by Epson
4(f)-I	Mercury in other discharge lamps not specifically mentioned in RoHS Directive annexes		To be decided	
4(f)-II	Mercury in high-pressure mercury vapor lamps used in projectors where an output ≥ 2000 lumen ANSI is required	All	2/24/2027	One year prior to the
4(f)-III	Mercury in high-pressure sodium vapor lamps used for horticulture lighting	7111	2/24/2027	legal expiration date *2
4(f)-IV	Mercury in lamps emitting light in the ultraviolet spectrum		2/24/2027	

<sup>\*1</sup> If the exemptions and their expiration dates are revised in conjunction with amendments to the exemptions of the RoHS Directive, please apply the exemptions and expiration dates of the latest legal requirements to this table.

For exemptions for which an application for renewal of the exemption has already been submitted and the expiration date has not yet been determined, the legal expiration date is listed as "To be determined."

Example: If the materials are spare parts for a product that was put on the market prior to the legal expiration date.

If an extension request has already been submitted and the substance can be used until the expiration date is decided by review.

In this case, we ask that you continue your efforts to develop alternatives so that you are prepared to begin shipping alternatives as soon as the legal expiration date is finalized. Your cooperation is greatly appreciated.

In addition, exemptions for which the legal expiration date is " To be determined " can be used up to one year before the new expiration date.

<sup>\*2</sup> The exemption expiration date is one year prior to the legal expiration date. If the exemptions and their expiration dates are revised based on amendments to the exemptions of the RoHS Directive, please comply with the latest legal requirements. However, exemptions may be approved after the expiration date only if you receive instructions from the Epson Group or the Epson Group has verified that legal and customer requirements can be met.

<sup>\*3</sup> Except the case covered by exemption No.24.

<sup>\*4</sup> Except the case covered by exemption No.34.

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

No.	Substance Group	Substance Name	CAS No.
	Polychlorinated biphenyls (PCBs) and specific	Polychlorinated biphenyls (all isomers and	
7	substitutes	congeners)	1336-36-3
7	Polychlorinated biphenyls (PCBs) and specific	Monomethyl-tetrachloro-diphenyl methane	76253-60-6
′	substitutes	Wionometryr-tetracinoro-diphenyr metriane	70233-00-0
7	Polychlorinated biphenyls (PCBs) and specific	Monomethyl-dichloro-diphenyl methane	81161-70-8
	substitutes Polychlorinated biphenyls (PCBs) and specific	Monomethyl-dibromo-diphenyl methane	
7	substitutes	(DBBT)	99688-47-8
		Polychlorinated terphenyls (PCT) (all isomers	£1 <b>=</b> 00.00
8	Polychlorinated terphenyls (PCTs)	and congeners)	61788-33-8
30	Hexabromocyclododecane (HBCDD)	Hexabromocyclododecane (HBCDD)	25637-99-4
30	Hexabromocyclododecane (HBCDD)	alpha-hexabromocyclododecane	134237-50-6
30	Hexabromocyclododecane (HBCDD)	beta-hexabromocyclododecane	134237-51-7
30	Hexabromocyclododecane (HBCDD)	gamma-hexabromocyclododecane	134237-52-8
30	Hexabromocyclododecane (HBCDD)	1,2,5,6,9,10-hexabromocyclodecane	3194-55-6
36	Polybrominated biphenyls (PBB)	Polybrominated biphenyls	59536-65-1
36	Polybrominated biphenyls (PBB)	Dibromobiphenyl	92-86-4
36	Polybrominated biphenyls (PBB)	2-Bromobiphenyl	2052-07-5
36	Polybrominated biphenyls (PBB)	3-Bromobiphenyl	2113-57-7
36	Polybrominated biphenyls (PBB)	4-Bromobiphenyl	92-66-0
36	Polybrominated biphenyls (PBB)	Tribromobiphenyl	59080-34-1
36	Polybrominated biphenyls (PBB)	Tetrabromobiphenyl	40088-45-7
36	Polybrominated biphenyls (PBB)	Pentabromobiphenyl	56307-79-0
36	Polybrominated biphenyls (PBB)	Hexabromobiphenyl	59080-40-9
36	Polybrominated biphenyls (PBB)	hexabromo-1,1-biphenyl	36355-01-8
36	Polybrominated biphenyls (PBB)	Firemaster FF-1	67774-32-7
36	Polybrominated biphenyls (PBB)	Heptabromobiphenyl	35194-78-6
36	Polybrominated biphenyls (PBB)	Octabromobiphenyl	61288-13-9
36	Polybrominated biphenyls (PBB)	Nonabromobiphenyl	27753-52-2
36	Polybrominated biphenyls (PBB)	Decabromobiphenyl	13654-09-6
38	Polybrominated diphenylethers (PBDE)	Bromodiphenyl ether	101-55-3
38	Polybrominated diphenylethers (PBDE)	Dibromodiphenyl ethers	2050-47-7
38	Polybrominated diphenylethers (PBDE)	Tribromodiphenyl ether	49690-94-0
38	Polybrominated diphenylethers (PBDE)	Tetrabromodiphenyl ethers	40088-47-9
38	Polybrominated diphenylethers (PBDE)	Hexabromodiphenyl ether	36483-60-0
38	Polybrominated diphenylethers (PBDE)	Heptabromodiphenylether	68928-80-3
38	Polybrominated diphenylethers (PBDE)	Nonabromodiphenylether	63936-56-1
38	Polybrominated diphenylethers (PBDE)	Decabromodiphenyl ether	
38	Polybrominated diphenylethers (PBDE)	<u> </u>	1163-19-5
38	Polybrominated diphenylethers (PBDE)	Pentabromodiphenyl ether	32534-81-9
	Polychlorinated aphthalene (Cl: 1 or more)	Octabromodiphenyl ether	32536-52-0
40		Naphthalene, chloro derivatives	70776-03-3
40	Polychlorinated naphthalene (Cl: 1 or more)	1-Chloronaphthalene	90-13-1
40	Polychlorinated naphthalene (Cl: 1 or more)	2-Chloronaphthalene	91-58-7
40	Polychlorinated naphthalene (Cl: 1 or more)	1,5-Dichloronaphthalene	1825-30-5
40	Polychlorinated naphthalene (Cl: 1 or more)	1,4-Dichloronaphthalene	1825-31-6
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2-Dichloronaphthalene	2050-69-3
40	Polychlorinated naphthalene (Cl: 1 or more)	1,6-Dichloronaphthalene	2050-72-8

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

		o No. of the Level 1 and 2 prohibited substances	
No.	Substance Group	Substance Name	CAS No.
40	Polychlorinated naphthalene (Cl: 1 or more)	1,7-Dichloronaphthalene	2050-73-9
40	Polychlorinated naphthalene (Cl: 1 or more)	1,8-Dichloronaphthalene	2050-74-0
40	Polychlorinated naphthalene (Cl: 1 or more)	2,3-Dichloronaphthalene	2050-75-1
40	Polychlorinated naphthalene (Cl: 1 or more)	2,6-Dichloronaphthalene	2065-70-5
40	Polychlorinated naphthalene (Cl: 1 or more)	1,3-Dichloronaphthalene	2198-75-6
40	Polychlorinated naphthalene (Cl: 1 or more)	2,7-Dichloronaphthalene	2198-77-8
40	Polychlorinated naphthalene (Cl: 1 or more)	Chloronaphthalene	25586-43-0
40	Polychlorinated naphthalene (Cl: 1 or more)	Dichloronaphthalene	28699-88-9
40	Polychlorinated naphthalene (Cl: 1 or more)	Pentachloronaphthalene	1321-64-8
40	Polychlorinated naphthalene (Cl: 1 or more)	Trichloronaphthalene	1321-65-9
40	Polychlorinated naphthalene (Cl: 1 or more)	Hexachloronaphthalene	1335-87-1
40	Polychlorinated naphthalene (Cl: 1 or more)	Tetrachloronaphthalene	1335-88-2
40	Polychlorinated naphthalene (Cl: 1 or more)	Perchloronaphthalene	2234-13-1
40	Polychlorinated naphthalene (Cl: 1 or more)	1,4,6-Trichloronaphthalene	2437-54-9
40	Polychlorinated naphthalene (Cl: 1 or more)	1,4,5-Trichloronaphthalene	2437-55-0
40	Polychlorinated naphthalene (Cl: 1 or more)	1,4,5,8-Tetrachloronaphthalene	3432-57-3
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,8-Tetrachloronaphthalene	6529-87-9
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,5-Tetrachloronaphthalene	6733-54-6
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,6,7,8-Hexachloronaphthalene	17062-87-2
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,4-Tetrachloronaphthalene	20020-02-4
40	Polychlorinated naphthalene (Cl: 1 or more)	1,3,5,8-Tetrachloronaphthalene	31604-28-1
40	Polychlorinated naphthalene (Cl: 1 or more)	Heptachloronaphthalene	32241-08-0
40	Polychlorinated naphthalene (Cl: 1 or more)	2,3,6,7-Tetrachloronaphthalene	34588-40-4
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4-Trichloronaphthalene	50402-51-2
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3-Trichloronaphthalene	50402-52-3
40	Polychlorinated naphthalene (Cl: 1 or more)	1,3,5-Trichloronaphthalene	51570-43-5
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,6-Trichloronaphthalene	51570-44-6
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,6-Tetrachloronaphthalene	51570-45-7
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,5-Tetrachloronaphthalene	53555-63-8
40	Polychlorinated naphthalene (Cl: 1 or more)	1,3,5,7-Tetrachloronaphthalene	53555-64-9
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,5,7-Pentachloronaphthalene	53555-65-0
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,5-Trichloronaphthalene	55720-33-7
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,7-Trichloronaphthalene	55720-34-8
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,8-Trichloronaphthalene	55720-35-9
40	Polychlorinated naphthalene (Cl: 1 or more)	1,3,6-Trichloronaphthalene	55720-36-0
40	Polychlorinated naphthalene (Cl: 1 or more)	1,3,7-Trichloronaphthalene	55720-37-1
40	Polychlorinated naphthalene (Cl: 1 or more)	1,3,8-Trichloronaphthalene	55720-38-2
40	Polychlorinated naphthalene (Cl: 1 or more)	1,6,7-Trichloronaphthalene	55720-39-3
40	Polychlorinated naphthalene (Cl: 1 or more)	2,3,6-Trichloronaphthalene	55720-40-6
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,7-Tetrachloronaphthalene	55720-41-7
40	Polychlorinated naphthalene (Cl: 1 or more)	1,3,6,7-Tetrachloronaphthalene	55720-42-8
40	Polychlorinated naphthalene (Cl: 1 or more)	1,4,6,7-Tetrachloronaphthalene	55720-43-9
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,4,5,6,7-Heptachloronaphthalene	58863-14-2
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,4,5,6,8-Heptachloronaphthalene	58863-15-3
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,4,5,6-Hexachloronaphthalene	58877-88-6
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,7-Tetrachloronaphthalene	67922-21-8

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

	I	to No. of the Level 1 and 2 prohibited substance	
No.	Substance Group	Substance Name	CAS No.
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,5,6-Tetrachloronaphthalene	67922-22-9
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,5,7-Tetrachloronaphthalene	67922-23-0
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,6,8-Tetrachloronaphthalene	67922-24-1
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,4,5-Pentachloronaphthalene	67922-25-2
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,4,6-Pentachloronaphthalene	67922-26-3
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,4,5,7-Hexachloronaphthalene	67922-27-4
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,5,6,8-Hexachloronaphthalene	90948-28-0
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,5,7,8-Hexachloronaphthalene	103426-92-2
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,4,5,8-Hexachloronaphthalene	103426-93-3
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,5,7,8-Hexachloronaphthalene	103426-94-4
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,5,6,8-Hexachloronaphthalene	103426-95-5
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,4,6,7-Hexachloronaphthalene	103426-96-6
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,5,6,7-Hexachloronaphthalene	103426-97-7
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,6-Tetrachloronaphthalene	149864-78-8
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,6,7-Tetrachloronaphthalene	149864-79-9
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,5,8-Tetrachloronaphthalene	149864-80-2
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,8-Tetrachloronaphthalene	149864-81-3
40	Polychlorinated naphthalene (Cl. 1 or more)	1,2,7,8-Tetrachloronaphthalene	149864-81-3
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,7,8-Pentachloronaphthalene	150205-21-3
40	Polychlorinated naphthalene (Cl. 1 or more)	1,3,6,8-Tetrachloronaphthalene	150203-21-3
40		1	150224-15-0
40	Polychlorinated naphthalene (Cl. 1 or more)	1,2,3,6,7-Pentachloronaphthalene 1,2,4,6,7-Pentachloronaphthalene	
	Polychlorinated naphthalene (Cl: 1 or more)	1	150224-17-2
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,5,6-Pentachloronaphthalene	150224-18-3
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,5,7-Pentachloronaphthalene	150224-19-4
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,5,6-Pentachloronaphthalene	150224-20-7
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,7,8-Pentachloronaphthalene	150224-21-8
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,6,8-Pentachloronaphthalene	150224-22-9
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,6,8-Pentachloronaphthalene	150224-23-0
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,3,5,8-Pentachloronaphthalene	150224-24-1
40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,4,5,8-Pentachloronaphthalene	150224-25-2
41	Asbestos	Asbestos	1332-21-4
41	Asbestos	Actinolite	77536-66-4
41	Asbestos	Amosite (Grunerite)	12172-73-5
41	Asbestos	Anthophyllite	77536-67-5
41	Asbestos	Chrysotile	12001-29-5
41	Asbestos	Crocidolite	12001-28-4
41	Asbestos	Tremolite	77536-68-6
42	Ozone-depleting substances	CFC-11	75-69-4
42	Ozone-depleting substances	CFC-12	75-71-8
42	Ozone-depleting substances	CFC-13	75-72-9
42	Ozone-depleting substances	CFC-111	354-56-3
		CFC-112	76-12-0
42	Ozone-depleting substances	CFC-112	76-12-0
		CFC-112a	76-11-9
		CFC-113	76-13-1
42	Ozone-depleting substances	CFC-113	76-13-1
		CFC-113a	354-58-5

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

No.	Substance Group	Substance Name	CAS No.
42	Ozone-depleting substances	CFC-114	76-14-2
42	Ozone-depleting substances	CFC-115	76-15-3
	1 5	CDC A11	422-78-6
10		CFC-211	135401-87-5
42	Ozone-depleting substances	CFC-211aa CFC-211ba	422-78-6
		CFC-2110a	422-81-1
42	Ozone-depleting substances	CFC-212	3182-26-1
42	Ozone-depleting substances	CFC-213	2354-06-5
72	Ozone-depicting substances		134237-31-3
		CFC-214	29255-31-0
42	Ozone-depleting substances	CFC-214aa	2268-46-4
		CFC-214cb	-
		CFC-215	1599-41-3
		CFC-215aa	1599-41-3
42	Ozone-depleting substances	CFC-215ba	76-17-5
		CFC-215bb	-
		CFC-215cb CFC-215ca	4259-43-2
42	Ozono doulatina substances	CFC-2156a	661-97-2
	Ozone-depleting substances		
42	Ozone-depleting substances	CFC-217	422-86-6
42	Ozone-depleting substances	Halon-1011	74-97-5
42	Ozone-depleting substances	Halon-1202	75-61-6
42	Ozone-depleting substances	Halon-1211	353-59-3
42	Ozone-depleting substances	Halon-1301	75-63-8
42	Ozone-depleting substances	Halon-2402	124-73-2
42	Ozone-depleting substances	carbon tetrachloride	56-23-5
42	Ozone-depleting substances	Methylchloroform	71-55-6
42	Ozone-depleting substances	methyl bromide	74-83-9
42	Ozone-depleting substances	ethyl bromide	74-96-4
42	Ozone-depleting substances	trifluoromethyl iodide	2314-97-8
42	Ozone-depleting substances	methyl chloride	74-87-3
42	Ozone-depleting substances	HBFC-21 B2	1868-53-7
42	Ozone-depleting substances	HBFC-22 B1	1511-62-2
42	Ozone-depleting substances	HBFC-31 B1	373-52-4
42	Ozone-depleting substances	HBFC-121 B4	306-80-9
42	Ozone-depleting substances	HBFC-122 B3	-
42	Ozone-depleting substances	HBFC-123 B2	354-04-1
42	Ozone-depleting substances	HBFC-124 B1	124-72-1
42	Ozone-depleting substances	HBFC-131 B3	-
42	Ozone-depleting substances	HBFC-132 B2	75-82-1
42	Ozone-depleting substances	HBFC-133 B1	421-06-7
42	Ozone-depleting substances	HBFC-141 B2	358-97-4
<del>12</del> 42	Ozone-depleting substances	HBFC-142 B1	420-47-3
<del>4</del> 2 42	Ozone-depleting substances	HBFC-151 B1	762-49-2
<del>4</del> 2 42	Ozone-depleting substances	HBFC-221 B6	
			-
42	Ozone-depleting substances	HBFC-222 B5	-
42	Ozone-depleting substances	HBFC-223 B4	-
42	Ozone-depleting substances	HBFC-224 B3	-

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

		G 1 A N	
No.	Chemical Group	Substance Name	CAS No.
42	Ozone-depleting substances	HBFC-225 B2	431-78-7
42	Ozone-depleting substances	HBFC-226 B1	2252-78-0
42	Ozone-depleting substances	HBFC-231 B5	-
42	Ozone-depleting substances	HBFC-232 B4	-
42	Ozone-depleting substances	HBFC-233 B3	-
42	Ozone-depleting substances	HBFC-234 B2	-
42	Ozone-depleting substances	HBFC-235 B1	460-88-8
42	Ozone-depleting substances	HBFC-241 B4	-
42	Ozone-depleting substances	HBFC-242 B3	70192-80-2
42	Ozone-depleting substances	HBFC-243 B2	431-21-0
42	Ozone-depleting substances	HBFC-244 B1	679-84-5
42	Ozone-depleting substances	HBFC-251 B3	75372-14-4
42	Ozone-depleting substances	HBFC-252 B2	460-25-3
42	Ozone-depleting substances	HBFC-253 B1	421-46-5
42	Ozone-depleting substances	HBFC-261 B2	51584-26-0
42	Ozone-depleting substances	HBFC-262 B1	-
42	Ozone-depleting substances	HBFC-271 B1	1871-72-3
42	Ozone-depleting substances	HCFC-21	75-43-4
42	Ozone-depleting substances	HCFC-22	75-45-6
42	Ozone-depleting substances	HCFC-31	593-70-4
	Szene depreting sucstances	HCFC-121	134237-32-4
42	Ozone-depleting substances	HCFC-121	354-14-3
	Ozone depicting substances	HCFC-121a	354-11-0
		HCFC-122	41834-16-6
42		HCFC-122	354-21-2
42	Ozone-depleting substances	HCFC-122a	354-15-4
		HCFC-122b	354-12-1
		HCFC-123	34077-87-7
		HCFC-123	306-83-2
42	Ozone-depleting substances	HCFC-123a	354-23-4
		HCFC-123b	90454-18-5
			812-04-4
40		HCFC-124	63938-10-3
42	Ozone-depleting substances	HCFC-124	2837-89-0
		HCFC-124a	354-25-6
		HCFC-131	27154-33-2;
42	Ogana danlatina auhata	HCFC-131	(134237-34-6)
42	Ozone-depleting substances	HCFC131a	359-28-4 811-95-0
		HCFC-131b	2366-36-1
		HCFC-132	25915-78-0
		HCFC-132	431-06-1
42	Ozone-depleting substances	HCFC-132a	471-43-2
	arpring succession	HCFC-132b	1649-08-7
		HFCF-132c	1842-05-3
			1330-45-6
		HCFC-133	431-07-2
42	Ozone-depleting substances	HCFC-133	1330-45-6
		HCFC-133a	75-88-7
L		HCFC-133b	421-04-5
		1101 0 1330	421-04-5

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

No.	Substance Group	Substance Name	CAS No.
	<u> </u>		1717-00-6;
	Ozone-depleting substances	HCFC-141	(25167-88-8)
42		HCFC-141	430-57-9
	ozene depressing successions	HCFC-141a	430-53-5
		HCFC-141b	1717-00-6
		HCFC-142	25497-29-4
		HCFC-142	338-65-8
42	Ozone-depleting substances	HCFC-142b	75-68-3
		HCFC-142a	338-64-7
		HCFC-151	110587-14-9
42	Ozone-depleting substances	HCFC-151	762-50-5
72	Ozone-depicting substances	HCFC-151a	1615-75-4
			134237-35-7
42	Ozone-depleting substances	HCFC-221	29470-94-8
72	Ozone-depieting substances	HCFC-221ab	422-26-4
		HCFC-222	134237-36-8
42	Ozone-depleting substances	HCFC-222ca	422-49-1
42	Ozone-depieting substances	HCFC-222ca HCFC-222aa	422-30-0
		HCFC-223	134237-37-9
42	Ozono domintimo substances	HCFC-223ca	422-52-6
42	Ozone-depleting substances	HCFC-223ca HCFC-223cb	422-52-6
	Ozone-depleting substances	HCFC-224	134237-38-0
42		HCFC-224ca	422-54-8
		HCFC-224cb	422-53-7
		HCFC-224cc	422-51-5
		HCFC-225	127564-92-5
		HCFC-225aa	128903-21-9
		HCFC-225ba	422-48-0
	Ozone-depleting substances	HCFC-225bb	422-44-6
42		HCFC-225ca	422-56-0
72		HCFC-225cb	507-55-1
		HCFC-225cc	13474-88-9
		HCFC-225da	431-86-7
		HCFC-225ea	136013-79-1
		HCFC-225eb	111512-56-2
42	O dl-ti	HCFC-226	134308-72-8
42	Ozone-depleting substances	HCFC-226da	431-87-8
42	Ozone-depleting substances	HCFC-231	134190-48-0
42	Ozone-depleting substances	HCFC-231bb	421-94-3
42	O dl-ti	HCFC-232	134237-39-1
42	Ozone-depleting substances	HCFC-232fc	460-89-9
42	Ogana danlatina aukat	HCFC-233	134237-40-4
42	Ozone-depleting substances	HCFC-233fb	7125-83-9
42	Ogana danlatina aukat	HCFC-234	127564-83-4
42	Ozone-depleting substances	HCFC-234db	425-94-5
42	0- 1.17 -17	HCFC-235	134237-41-5
42	Ozone-depleting substances	HCFC-235fa	460-92-4
42	0- 1.17 -17	HCFC-241	134190-49-1
42	Ozone-depleting substances	HCFC-241db	666-27-3
42	0- 1.17 -17	HCFC-242	134237-42-6
42	Ozone-depleting substances	HCFC-242fa	460-63-9

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

_	(The number with no mark and with * is referred to No. of the Level 1 and 2 prohibited substances, respectively.)				
No.	Substance Group	Substance Name	CAS No.		
		HCFC-243	134237-43-7		
42	Ozone-depleting substances	HCFC-243cc	7125-99-7		
	Ozone-depicting substances	HCFC-243db	338-75-0		
		HCFC-243fa	460-69-5		
		HCFC-244	134190-50-4		
42	Ozone-depleting substances	HCFC-244ca	679-85-6		
		HCFC-244cc	421-75-0		
		HCFC-251	134190-51-5		
42	Ozone-depleting substances	HCFC-251fb	818-99-5		
		HCFC-251dc	421-41-0		
42	011	HCFC-252	134190-52-6		
42	Ozone-depleting substances	HCFC-252fb	819-00-1		
40	0 1 1 2 1 4	HCFC-253	134237-44-8		
42	Ozone-depleting substances	HCFC-253fb	460-35-5		
		HCFC-261	134237-45-9		
42	Ozone-depleting substances	HCFC-261fc	7799-56-6		
	1 8	HCFC-261ba	420-97-3		
		HCFC-262	134190-53-7		
40	Ozone-depleting substances	HCFC-262ca	420-99-5		
42		HCFC-262da	102738-79-4		
		HCFC-262fc	421-02-3		
		HCFC-271	134190-54-8		
42	Ozone-depleting substances	HCFC-271ba	420-44-0		
	ozone depreting sucstances	HCFC-271fb	430-55-7		
44	Alkanes, C10-13, chloro (Short chain chlorinated paraffins)	Alkanes, C10-13, chloro	85535-84-8		
44	Alkanes, C10-13, chloro (Short chain chlorinated paraffins)	Alkanes, C10-12, chloro	108171-26-2		
44	Alkanes, C10-13, chloro (Short chain chlorinated paraffins)	Alkanes, C12-13, chloro	71011-12-6		
44	Alkanes, C10-13, chloro (Short chain chlorinated paraffins)	Alkanes, chloro	61788-76-9		
44	Alkanes, C10-13, chloro (Short chain chlorinated paraffins)	Other Short Chain Chlorinated Paraffins	-		
45	Perfluorooctane sulfonates (PFOS) and	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,	1762 22 1		
43	its salt	6,6,7,7,8,8,8-heptadecafluoro	1763-23-1		
45	Perfluorooctane sulfonates (PFOS) and	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,	2705 20 2		
43	its salt	6,6,7,7,8,8,8-heptadecafluoro-,potassium salt	2795-39-3		
	Perfluorooctane sulfonates (PFOS) and	1-Octanesulfonic acid,			
45	its salt	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptad	29081-56-9		
		ecafluoro-, ammonium salt			
		2-Propenoic acid, 2-methyl-, dodecyl ester, polymers			
46	PFOS-related compounds	with 2-[methyl](perfluoro-C4-8-alkyl)-	306975-62-2		
		sulfonyl]amino]ethyl acrylate and vinylidene chloride			
1.0	prog. 1 . 1	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-,	2001 51 5		
46	PFOS-related compounds	potassium salt	2991-51-7		
47	Nickel and nickel compounds	Nickel	7440-02-0		
47	Nickel and nickel compounds	Nickel (II) oxide	1313-99-1		
47	Nickel and nickel compounds	Nickel (II) chloride	7718-54-9		
<del>T</del> /	Tyrokor and moker compounds	TVICKCI (II) CIIIOITUC	/ / 10-J <del>1</del> -J		

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

$\overline{}$	(The number with no mark and with * is referred to No. of the Level 1 and 2 prohibited substances, respectively.)				
No.	Substance Group	Substance Name	CAS No.		
47	Nickel and nickel compounds	Nickel (II) chloride, hexahydrate	7791-20-0		
47	Nickel and nickel compounds	Nickel(II) sulfate	7786-81-4		
47	Nickel and nickel compounds	Nickel(II) sulfate, hexahydrate	10101-97-0		
47	Nickel and nickel compounds	Nickel(II) sulfate, heptahydrate	10101-98-1		
47	Nickel and nickel compounds	Antimony nickel titanium oxide yellow	8007-18-9		
47	Nickel and nickel compounds	Nickel niobium titanium yellow rutile	68611-43-8		
47	Nickel and nickel compounds	Cobalt titanate green spinel	68186-85-6		
47	Cadmium and cadmium compounds	Cadmium	7440-43-9		
47	Cadmium and cadmium compounds	Cadmium oxide	1306-19-0		
50	Hexavalent chromium compounds	Barium chromate	10294-40-3		
50	Hexavalent chromium compounds	Calcium chromate	13765-19-0		
50	Hexavalent chromium compounds	Strontium chromate	7789-06-2		
50	Hexavalent chromium compounds	Zinc chromate	13530-65-9		
51	Lead and lead compounds	Lead	7439-92-1		
51	Lead and lead compounds  Lead and lead compounds	Lead (II) sulfate	7446-14-2		
51	Lead and lead compounds  Lead and lead compounds	Lead (II) carbonate	598-63-0		
51	Lead and lead compounds  Lead and lead compounds	Trilead bis(carbonate) dihydroxide	1319-46-6		
51	Lead and lead compounds  Lead and lead compounds	Lead (II) acetate, trihydrate	6080-56-4		
51	Lead and lead compounds  Lead and lead compounds	Lead (II) acetate, trinydrate  Lead selenide	12069-00-0		
51	1	Lead (IV) oxide	1309-60-0		
	Lead and lead compounds	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
51	Lead and lead compounds	Lead (II,IV) oxide	1314-41-6		
51	Lead and lead compounds	Lead (II) sulfide	1314-87-0		
51	Lead and lead compounds	Lead (II) phosphate	7446-27-7		
51	Lead and lead compounds	Lead (II) titanate	12060-00-3		
51	Lead and lead compounds	Lead sulfate, sulphuric acid, lead salt	15739-80-7		
51	Lead and lead compounds	Lead sulphate, tribasic	12202-17-4		
51	Lead and lead compounds	Lead stearate	1072-35-1		
51	Lead and lead compounds	Lead (II) chromate	7758-97-6		
51	Lead and lead compounds	Lead chromate molybdate sulphate red	12656-85-8		
51	Lead and lead compounds	Lead sulfochromate yellow	1344-37-2		
54	Mercury and mercury compounds	Mercury	7439-97-6		
54	Mercury and mercury compounds	Mercuric, chloro(cyclohexylmethyl)-	33631-63-9		
54	Mercury and mercury compounds	Mercury (II) chloride	7487-94-7		
54	Mercury and mercury compounds	Mercuric sulfate	7783-35-9		
54	Mercury and mercury compounds	Mercuric nitrate	10045-94-0		
54	Mercury and mercury compounds	Mercuric (II) oxide	21908-53-2		
54	Mercury and mercury compounds	Mercuric sulfide	1344-48-5		
58	Tri-substituted organostannic compounds	Triphenyltin-N, N-dimethyldithiocarbamate	1803-12-9		
58	Tri-substituted organostannic compounds	Triphenyltinfluoride	379-52-2		
58	Tri-substituted organostannic compounds	Triphenyltinacetate	900-95-8		
58	Tri-substituted organostannic compounds	Triphenyltinchloride	639-58-7		
58	Tri-substituted organostannic compounds	Triphenyltinhydroxide	76-87-9		
			18380-71-7		
58	Tri-substituted organostannic compounds	Triphenyltin fattyacid((9-11) salt)	18380-72-8		
50	111 substituted organiostanine compounds		47672-31-1		
			94850-90-5		

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		to No. of the Level 1 and 2 prohibited substances, re	
No.	Substance Group	Substance Name	CAS No.
58	Tri-substituted organostannic compounds	Triphenyltinchloroacetate	7094-94-2
58	Tri-substituted organostannic compounds	Tributyltinmethacrylate	2155-70-6
58	Tri-substituted organostannic compounds	Bis(tributyltin)fumalate	6454-35-9
58	Tri-substituted organostannic compounds	Tributyltinfluoride	1983-10-4
58	Tri-substituted organostannic compounds	Bis(tributyltin)2,3-dibromosuccinate	31732-71-5
58	Tri-substituted organostannic compounds	Tributyltinacetate	56-36-0
58	Tri-substituted organostannic compounds	Tributyltinlaurate	3090-36-6
8	Tri-substituted organostannic compounds	Bis(tributyltin)phthalate	4782-29-0
58	Tri-substituted organostannic compounds	Coplymer of alkyl(c=8) acrylate,methyl methacrylate and tributyltin methacrylate	67772-01-4
58	Tri-substituted organostannic compounds	Tributyltinsulfamate	6517-25-5
58	Tri-substituted organostannic compounds	Bis(tributyltin)maleate	14275-57-1
58	Tri-substituted organostannic compounds	Tributyltinchloride	1461-22-9 7342-38-3
8	Tri-substituted organostannic compounds	Tributyltin cyclopentane carbonate=mixture	85409-17-2
58	Tri-substituted organostannic compounds	Tributyltin-1, 2,3,4,4a, 4b, 5,6,10,10a-decahydro-7-isoplopyl-1, 4a-dimethyl-1-phenanthrencarboxylatemix	26239-64-5
8	Tri-substituted organostannic compounds	Other tri-substituted organostannic compounds	-
9	Dioctyltin (DOT) compounds	Dioctyl Tin Oxide	870-08-6
9	Dioctyltin (DOT) compounds	Dioctyltin dilaurate	3648-18-8
9	Dioctyltin (DOT) compounds	Other Dioctyltin compounds	-
0	Dibutyltin (DBT) compounds	Dibutyltin oxide	818-08-6
0	Dibutyltin (DBT) compounds	Dibutyltin diacetate	1067-33-0
0	Dibutyltin (DBT) compounds	Dibutyltin dilaurate	77-58-7
0	Dibutyltin (DBT) compounds	Dibutyltin maleate	78-04-6
0	Dibutyltin (DBT) compounds	Other dibutyltin compounds	_
7	Bisphenols	4,4-isopropylidenediphenol (Bisphenol A)	80-05-7
7	Bisphenols	4,4'-sulphonyldiphenol (Bisphenol S)	80-09-1
7	Bisphenols	4,4'-(1-methylpropylidene)bisphenol (Bisphenol B)	77-40-7
7	Bisphenols	2,2'-methylenediphenol (Bisphenol F)	2467-02-9
7	Bisphenols	4,4'-methylenediphenol (Bisphenol F)	620-92-8
57	Bisphenols	4,4'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene] bisphenol (Bisphenol AF)	1478-61-1
57	Bisphenols	2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol (Tetrabromobisphenol A;TBBPA)	79-94-7
57	Bisphenols	4,4'-sulphonylbis[2,6-dibromophenol] (Tetrabromobisphenol S; TBBPS)	39635-79-5
7	Bisphenols	4,4'-isobutylethylidenediphenol	6807-17-6
7	Bisphenols	4,4'-Methylenebis(2,6-dimethylphenol)	5384-21-4
8	Perfluorooctanoic acid (PFOA) and its salts	Pentadecafluorooctanoic acid	335-67-1
8	Perfluorooctanoic acid (PFOA) and its salts	Ammonium pentadecafluorooctanoate	3825-26-1
8	Perfluorooctanoic acid (PFOA) and its salts	Sodium pentadecafluorooctanoate	335-95-5
		•	
58	Perfluorooctanoic acid (PFOA) and its salts	Potassium pentadecafluorooctanoate	2395-00-8

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

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No.	Substance Group	Substance Name	CAS No.
69	Perfluorooctanoic acid (PFOA) related compounds	Pentadecafluorooctanoic acid	335-67-1
69	Perfluorooctanoic acid (PFOA) related compounds	Ammonium pentadecafluorooctanoate	3825-26-1
69	Perfluorooctanoic acid (PFOA) related compounds	Sodium pentadecafluorooctanoate	335-95-5
69	Perfluorooctanoic acid (PFOA) related compounds	Potassium pentadecafluorooctanoate	2395-00-8
69	Perfluorooctanoic acid (PFOA) related compounds	Silver pentadecafluorooctanoate	335-93-3
69	Perfluorooctanoic acid (PFOA) related compounds	Pentadecafluoroctanoyl fluoride	335-66-0
69	Perfluorooctanoic acid (PFOA) related compounds	Methyl pentadecafluorooctanoate	376-27-2
69	Perfluorooctanoic acid (PFOA) related compounds	Ethyl pentadecafluorooctanoate	3108-24-5
69	Perfluorooctanoic acid (PFOA) related compounds	Perfluorooctyl iodide	507-63-1
69	Perfluorooctanoic acid (PFOA) related compounds	Tetrahydroperfluoro-1-decanol	678-39-7
69	Perfluorooctanoic acid (PFOA) related compounds	Perfluoro-1-dodecanol	865-86-1
69	Perfluorooctanoic acid (PFOA) related compounds	Perfluorodecyl iodide	2043-53-0
69	Perfluorooctanoic acid (PFOA) related compounds	1,1,2,2-Tetrahydroperfluorododecyl iodide	2043-54-1
69	Perfluorooctanoic acid (PFOA) related compounds	Perfluorodecylethyl acrylate	17741-60-5
69	Perfluorooctanoic acid (PFOA) related compounds	1,1,2,2-Tetrahydroperfluorodecyl acrylate	27905-45-9
	` /	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,	
69	Perfluorooctanoic acid (PFOA) related compounds	11,12,12-Pentacosafluoro-14-iodotetradecane	30046-31-2
		3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,	
69	Perfluorooctanoic acid (PFOA) related compounds	13,13,14,14,14-Pentacosafluorotetradecan-1-ol	39239-77-5
		3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,	
69	Perfluorooctanoic acid (PFOA) related compounds		60699-51-6
	1 on a second contract with the second contract	Nonacosafluorohexadecan-1-ol	
		1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,	
69	Perfluorooctanoic acid (PFOA) related compounds	11,12,12,13,13,14,14-Nonacosafluoro-	65510-55-6
	•	16-iodohexadecane	
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Trifluoromethane (HFC-23)	75-46-7
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Difluoromethane (HFC-32)	75-10-5
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Methyl fluoride (HFC-41)	593-53-3
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Pentafluoroethane (HFC-125)	354-33-6
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	1,1,2,2-Tetrafluoroethane (HFC-134)	359-35-3
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	1,1,2-Trifluoroethane (HFC-143)	430-66-0
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	1,1,1-Trifluoroethane (HFC-143a)	420-46-2
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	1,2-difluoroethane (HFC-152)	624-72-6
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	1,1-Difluoroethane (HFC-152a)	75-37-6
73	Fluorinated greenhouse gases (FFCs, SF6, HFCs)	Fluoroethane (HFC-161)	353-36-6
73	Fluorinated greenhouse gases (FCs, SF6, HFCs)	2H-Heptafluoropropane (HFC-227ea)	431-89-0
73	Fluorinated greenhouse gases (FFCs, SF6, HFCs)	1,1,1,2,2,3-Hexafluoro-propane (HFC-236cb)	677-56-5
73	Fluorinated greenhouse gases (FFCs, SF6, HFCs)	1 1	
		1,1,1,2,3,3-Hexafluoropropane (HFC-236ea)	431-63-0
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	1,1,1,3,3,3-Hexafluoropropane (HFC-236fa)	690-39-1
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	1,1,2,2,3-Pentafluoropropane (HFC-245ca)	679-86-7
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	1,1,1,3,3-Pentafluoropropane (HFC-245fa)	460-73-1
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	1,1,1,3,3-Pentafluorobutane (HFC-365mfc)	406-58-6
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	2H,3H-Decafluoropentane (HFC-43-10mee)	138495-42-8
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Tetrafluoromethane (Carbon tetrafluoride, (PFC-14))	75-73-0
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Hexafluoroethane (PFC-116)	76-16-4

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(Th	e number with no mark and with * is referred to No. of	of the Level 1 and 2 prohibited substances, resp	ectively.)
No.	Substance Group	Substance Name	CAS No.
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Octafluoropropane (PFC-218)	76-19-7
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Decafluorobutane (PFC-3-1-10)	355-25-9
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Dodecafluoropentane (PFC-4-1-12)	678-26-2
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Tetradecafluorohexane (PFC-5-1-14)	355-42-0
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Octafluorocyclobutane (PFC-c-318)	115-25-3
73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Sulfur Hexafluoride (SF <sub>6</sub> )	2551-62-4
74	Perfluorohexane sulfonic acid (PFHxS) and its salts	Perfluorohexane-1-sulphonic acid	355-46-4
74	Perfluorohexane sulfonic acid (PFHxS) and its salts	Ammonium perfluorohexane-1-sulphonate	68259-08-5
74	Perfluorohexane sulfonic acid (PFHxS) and its salts	Potassium perfluorohexane-1-sulphonate	3871-99-6
75	Perfluorohexane sulfonic acid (PFHxS) related compounds	Perfluorohexane sulfonyl fluoride	423-50-7
75	Perfluorohexane sulfonic acid (PFHxS) related compounds	Perfluorohexane sulfonamide	41997-13-1
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts	Perfluorononan-1-oic acid	375-95-1
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts	Nonadecafluorodecanoic acid	335-76-2
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts	Henicosafluoroundecanoic acid	2058-94-8
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts	Tricosafluorododecanoic acid	307-55-1
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts	Pentacosafluorotridecanoic acid	72629-94-8
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts	Heptacosafluorotetradecanoic acid	376-06-7
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts	Ammonium salt of perfluorononan-1-oic-acid	4149-60-4
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts	Sodium salt of perfluorononan-1-oic-acid	21049-39-8
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts	Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3
76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts	Ammonium nonadecafluorodecanoate	3108-42-7
77	C9-C14 PFCA-related substances	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,12-pentacosafluoro-12-iodo-	307-60-8
77	C9-C14 PFCA-related substances	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 12-heneicosafluorododecyl ester	2144-54-9
77	C9-C14 PFCA-related substances	Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-	15811-52-6

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No.	Substance Group	Substance Name	CAS No.
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Perfluorononan-1-oic acid	375-95-1
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Nonadecafluorodecanoic acid	335-76-2
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Henicosafluoroundecanoic acid	2058-94-8
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Tricosafluorododecanoic acid	307-55-1
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Pentacosafluorotridecanoic acid	72629-94-8
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Heptacosafluorotetradecanoic acid	376-06-7
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Perfluoropentadecanoic acid	141074-63-7
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Perfluorohexadecanoic acid	67905-19-5
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Perfluoroheptadecanoic acid	57475-95-3
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Perfluorooctadecanoic acid	16517-11-6
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Perfluorononadecanoic acid	133921-38-7
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Perfluoroeicosanoic acid	68310-12-3
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Ammonium salt of perfluorononan-1-oic-acid	4149-60-4
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Sodium salt of perfluorononan-1-oic-acid	21049-39-8
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3
82	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts	Ammonium nonadecafluorodecanoate	3108-42-7
82	C9-C21 PFCA related compounds	2-(Perfluorodecyl)ethyl acrylate	17741-60-5
82	C9-C21 PFCA related compounds	2-(Perfluorodecyl)ethanol	865-86-1
82	C9-C21 PFCA related compounds	2-(Perfluorododecyl)ethanol	39239-77-5
82	C9-C21 PFCA related compounds	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12- pentacosafluoro-12-iodo-	307-60-8
82	C9-C21 PFCA related compounds	2-Propenoic acid, 2-methyl-,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,12-heneicosafluorododecyl ester	2144-54-9
82	C9-C21 PFCA related compounds	Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-	15811-52-6
83	Perfluorohexanoic acid (PFHxA), its salts	Undecafluorohexanoic acid	307-24-4
83	Perfluorohexanoic acid (PFHxA), its salts	Ammonium undecafluorohexanoate	21615-47-4
83	Perfluorohexanoic acid (PFHxA), its salts	Sodium undecafluorohexanoate	2923-26-4

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered. (The number with no mark and with \* is referred to No. of the Level 1 and 2 prohibited substances, respectively.)

(Th	(The number with no mark and with * is referred to No. of the Level 1 and 2 prohibited substances, respectively.)				
No.	Substance Group	Substance Name	CAS No.		
84	PFHxA related substances	Chlorodimethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane	102488-47-1		
84	PFHxA related substances	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl methacrylate	1228350-17-1		
84	PFHxA related substances	Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4bis(trifluoromethyl)heptyl]silane	130676-81-2		
84	PFHxA related substances	1-(Perfluorohexyl)octane	133331-77-8		
84	PFHxA related substances	4,4,5,5,6,7,7,7-Octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl methacrylate	16083-79-7		
84	PFHxA related substances	tris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane	175354-32-2		
84	PFHxA related substances	Tris[4-(tridecafluorohexyl)phenyl]phosphine	193197-68-1		
84	PFHxA related substances	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl methacrylate	2144-53-8		
84	PFHxA related substances	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooct-1-ene	25291-17-2		
84	PFHxA related substances	Methyl Perfluoroamyl Ketone	2708-07-8		
84	PFHxA related substances	2H,2H,3H,3H-Perfluorononanoic acid	27854-30-4		
84	PFHxA related substances	Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)tin oxide	324063-66-3		
84	PFHxA related substances	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide	34451-26-8		
84	PFHxA related substances	1H,1H-Undecafluorohexylamine	355-34-0		
84	PFHxA related substances	4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol	356055-76-0		
84	PFHxA related substances	2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol	375-82-6		
84	PFHxA related substances	(2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptyl)oxirane	38565-52-5		
84	PFHxA related substances	Methyl Undecafluorohexanoate	424-18-0		
84	PFHxA related substances	(7E)-7H,8H-Hexacosafluorotetradec-7-ene	51249-67-3		
84	PFHxA related substances	Perfluoroheptanoyl chloride	52447-22-0		
84	PFHxA related substances	N-[4-(3,3,4,4,5,5,6,6,7,7,8,8,8- Tridecafluorooctyl)benzyloxycarbonyloxy] succinimide	556050-48-7		
84	PFHxA related substances	1-Octanol, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, 1(dihydrogen phosphate)	57678-01-0		
84	PFHxA related substances	sodium 2-methyl-2-({3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio]propanoyl}amino)propane-1-sulfonate	62880-93-7		
84	PFHxA related substances	6:2 fluorotelomer unsaturated aldehyde	69534-12-9		
84	PFHxA related substances	2-Hydroxy-N,N-dimethyl-3-sulfo-N-[3-[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulfonyl]amino]propyl]-1-propanaminium, inner salt	76201-56-4		
84	PFHxA related substances	N-[3-(dimethylamino)propyl]- 3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctanesulphonamide N-oxide	80475-32-7		
84	PFHxA related substances	1-(Perfluorohexyl)docosane	825651-73-8		
84	PFHxA related substances	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl azide	852527-60-7		
84	PFHxA related substances	3-perfluorohexyl-2-hydroxypropyl methacrylate	86994-47-0		
84	PFHxA related substances	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide	89889-20-3		
84	PFHxA related substances	N-Succinimidyl 4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononanoate	932710-51-5		
84	PFHxA related substances	2-Iodo-1-(perfluorohex-1-yl)octane	109574-84-7		

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

No.         Substance Group         Substance Name           85         Per- and poly-fluoroalkyl substances (PFAS)         Pentadecafluorooctanoic acid	CAS No.
85 Per- and poly-fluoroalkyl substances (PFAS) Pentadecafluorooctanoic acid	
	335-67-1
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluorooctylethyldimethylchlorosilane	74612-30-9
85 Per- and poly-fluoroalkyl substances (PFAS) Bis(perfluorooctyl)phosphinic acid	40143-79-1
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluorooctanoic anhydride	33496-48-9
85 Per- and poly-fluoroalkyl substances (PFAS) 1-bromohenicosafluorodecane	307-43-7
85 Per- and poly-fluoroalkyl substances (PFAS) Pentacosafluorotridecanoic acid	72629-94-8
85 Per- and poly-fluoroalkyl substances (PFAS) Tricosafluorododecanoic acid	307-55-1
85 Per- and poly-fluoroalkyl substances (PFAS) Henicosafluoroundecanoic acid	2058-94-8
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluorononan-1-oic acid	375-95-1
85 Per- and poly-fluoroalkyl substances (PFAS) Heptacosafluorotetradecanoic acid	376-06-7
85 Per- and poly-fluoroalkyl substances (PFAS) Nonadecafluorodecanoic acid	335-76-2
85 Per- and poly-fluoroalkyl substances (PFAS) Pentadecanoic acid, nonacosafluoro-	141074-63-7
85 Per- and poly-fluoroalkyl substances (PFAS) Hexadecanoic acid, hentriacontafluoro-	67905-19-5
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluoroheptadecanoic acid	57475-95-3
85 Per- and poly-fluoroalkyl substances (PFAS) Octadecanoic acid, pentatriacontafluoro-	16517-11-6
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluorononadecanoic acid	133921-38-7
85 Per- and poly-fluoroalkyl substances (PFAS) Eicosanoic acid, nonatriacontafluoro-	68310-12-3
85 Per- and poly-fluoroalkyl substances (PFAS) Hexafluoroethane	76-16-4
85 Per- and poly-fluoroalkyl substances (PFAS) Octafluoropropane	76-19-7
85 Per- and poly-fluoroalkyl substances (PFAS) Octafluorocyclobutane	115-25-3
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluoropolyalkyl Ether	60164-51-4
85 Per- and poly-fluoroalkyl substances (PFAS) Fluoroelastomers	64706-30-5
85 Per- and poly-fluoroalkyl substances (PFAS) Polytetrafluoroethylene	9002-84-0
85 Per- and poly-fluoroalkyl substances (PFAS) Vinylidene fluoride-hexafluoropropylene polymer	9011-17-0
85 Per- and poly-fluoroalkyl substances (PFAS) Polyvinylidene fluoride	24937-79-9
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluoroethylene propylene copolymer	25067-11-2
85 Per- and poly-fluoroalkyl substances (PFAS) 2-(Perfluorohexyl)ethane-1-sulfonic acid	27619-97-2
85 Per- and poly-fluoroalkyl substances (PFAS) Heptafluorobutyric acid	375-22-4
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluorohexane	355-42-0
85 Per- and poly-fluoroalkyl substances (PFAS) Chlorotrifluoroethylene polymer	9002-83-9
85 Per- and poly-fluoroalkyl substances (PFAS) Poly(ethylene-alt-chlorotrifluoroethylene)	25101-45-5
85 Per- and poly-fluoroalkyl substances (PFAS) Fluoroethylene-alkyl vinylether	146915-43-7
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluoroindane	374-80-1
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluorodecalin	306-94-5
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluoroperhydrofluorene	307-08-4
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluorotetradecahydrophenanthrene	306-91-2
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluoroperhydrofluoranthene	662-28-2
85 Per- and poly-fluoroalkyl substances (PFAS) Perfluoroperhydrobenzyltetralin	116265-66-8
85 Per- and poly-fluoroalkyl substances (PFAS) Ethyl perfluoroisoalkyl ether	297730-93-9
85 Per- and poly-fluoroalkyl substances (PFAS) Methyl perfluoroisoalkyl ether	22052-84-2
85 Per- and poly-fluoroalkyl substances (PFAS) Ethyl perfluoroisobutyl ether	163702-06-5

IEC 62474 and other sources were used as references for the substance names and CAS Nos. Not all substances and substance families prohibited in products are covered.

No.	Substance Group	Substance Name	CAS No.
87	Medium-chain chlorinated paraffins (MCCP)	Alkanes, C14-17, chloro	85535-85-9
87	Medium-chain chlorinated paraffins (MCCP)	Alkanes, C14-16, chloro	1372804-76-6
88	Halogenated Flame Retardants	Perchloronaphthalene	2234-13-1
88	Halogenated Flame Retardants	Chloronaphthalene	25586-43-0
88	Halogenated Flame Retardants	Tris(1-chloro-2-propyl)phosphate	13674-84-5
88	Halogenated Flame Retardants	Tris(1,3-dichloro-2-propyl)phosphate	13674-87-8
88	Halogenated Flame Retardants	TBBA-epichlorhydrin oligomer	40039-93-8
88	Halogenated Flame Retardants	TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	71342-77-3
88	Halogenated Flame Retardants	3,5,3',5'-Tetrabromo-bisphenol A (TBBPA)	79-94-7
88	Halogenated Flame Retardants	Decabromo-diphenyl-ethane	84852-53-9
88	Halogenated Flame Retardants	Brominated Bisphenol-A type epoxy resin	68928-70-1
88	Halogenated Flame Retardants	Benzene, ethenyl-,homopolymer, brominated	88497-56-7
88	Halogenated Flame Retardants	Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate	29420-49-3
88	Halogenated Flame Retardants	1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonyl fluoride	375-72-4
88	Halogenated Flame Retardants	1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid	375-73-5

**Table 2.1-4 Regulations Referenced** 

No.	Name of Regulation, Legislation, etc.	Country or Region
1	Montreal Protocol	
2	EU RoHS Directive and its revisions 2011/65/EU	EU
3	EU REACH Regulation (EC) No 1907/2006, Annex XVII (Restrictions on substances)	EU
4	(EU) 2023/1542 concerning batteries and waste batteries	EU
5	(EC) No. 1005/2009 on substances that deplete the ozone layer	EU
6	(EU) 2019/1021 on Persistent Organic Pollutants (POPS)	EU
7	(EU) 2025/40 on Packaging and Packaging Waste	EU
8	EU Regulation No. 517/2014 on Fluorinated Greenhouse Gases	EU
9	BGBI 1990/194: Formaldehyde Regulation §2, 12/2/1990	Austria
10	Lithuania HN 96:2000 "Hygiene Norms and Regulations"	Lithuania
11	ORRChem (Ordinance on the reduction of risks relating to substances)	Switzerland
12	Sweden SFS 1998:944	Sweden
13	Denmark Lead Regulation (Ordinance No. 1012)	Denmark
14	Denmark Cadmium Regulation	Denmark
15	Norway Product Regulations	Norway
16	Japan Industrial Safety and Health Act, Harmful Substances, etc., Prohibited for	Ionan
10	Manufacturing, etc.	Japan
17	Law Concerning the Examination and Regulation of the Manufacture etc. of Chemical Substances	Japan
18	Ozone Layer Protection Act	Japan
19	Act on Preventing Environmental Pollution of Mercury	Japan
20	Electrical Appliances and Consumer Products Safety Control Act	South Korea
21	Regulations concerning standards, etc., concerning packaging methods for packaging materials for Korean products	South Korea
22	Restrictions on the Manufacture, Import, and Sale of Dry Batteries	Taiwan
	National Standard of the People's Republic of China, GB24427-2021, Content Limitation	
23	of Mercury, Cadmium and Lead for Zinc Anode Primary Battery	China
24	Limits on mercury content in battery products	China
25	Toxic Substances Control Act (TSCA)	US
26	TSCA Significant New Use Rule	US
27	Clean Air Act of 1990, Art. 611	US
28	Formaldehyde Standards for Composite Wood Products Act	US
29	Mercury-Containing and Rechargeable Battery Management Act	US
30	US state battery regulations (Maine, Connecticut, Rhode Island)	US

**Table 2.1-4 Regulations Referenced** 

No.	Name of Regulation, Legislation, etc.	Country or Region
31	US regulations on hazardous substances in packaging materials	US
32	Proposition 65 Case Law	California
33	Products Containing Mercury Regulations (SOR/2014-254)	Canada
34	Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment	Canada
35	Law No. 26.184 Portable Power and Resolution	Argentina
36	Manganese battery and alkaline-manganese battery regulations	Paraguay
37	US regulations on hazardous substances in packaging materials	US
38	Formaldehyde Emissions from Composite Wood Products Regulations SOR/2021-148	Canada
39	Law on the fight against waste and the circular economy	France
40	The Health and Safety Code, relating to public health: AB1817 Product safety: textile	California
- 10	articles: PFAS	Camoma
41	Stockholm convention	Treaty
42	Safer Products Restrictions and Reporting	Washington

**Table 2.1-5 Analysis Standards** 

Substance	Analysis Standard
Cadmium and cadmium	Analytical method in accordance with IEC 62321
compounds	Polymers / Metals / Electronics
	- ICP-OES (inductively coupled plasma-optical emission spectrometry)
	- ICP-MS (inductively coupled plasma mass spectrometry)
	- AAS (atomic absorption spectroscopy)
	- AFS (atomic fluorescence spectroscopy)
	* Analysis should be performed by one of analytical methods described above*1. However, alternative analytical methods recommended by analysis laboratories are also acceptable.
	* It is preferable to perform analysis by laboratories certified according to ISO 17025.
Hexavalent chromium	Analytical method in accordance with IEC 62321
compounds	Polymers / Metals / Electronics
	- Colorimetric method
	Analysis should be performed by the above analytical method*1. An analytical
	method recommended by an analysis laboratory may also be acceptable, but spot
	tests are not acceptable due to large limits of quantification (LOQ) and low
	accuracy.
	* It is preferable to perform analysis by laboratories certified according to ISO 17025.
Lead and lead compounds	Analytical method in accordance with IEC 62321
	Polymers / Metals / Electronics
	- ICP-OES (inductively coupled plasma-optical emission spectrometry)
	- ICP-MS (inductively coupled plasma mass spectrometry)
	- AAS (atomic absorption spectroscopy)
	- AFS (atomic fluorescence spectroscopy)
	* Analysis should be performed by one of analytical methods described above *1.
	However, alternative analytical methods recommended by analysis laboratories are
	also acceptable.
	* It is preferable to perform analysis by laboratories certified according to ISO 17025.
Mercury and mercury	Analytical method in accordance with IEC 62321
compounds	Polymers / Metals / Electronics
	- CV-AAS (cold vapor atomic absorption spectrometry)
	- CV-AFS (cold vapor atomic fluorescence spectrometry)
	- ICP-OES (inductively coupled plasma-optical emission spectrometry)
	- ICP-MS (inductively coupled plasma mass spectrometry)
	* Analysis should be performed by one of analytical methods described above*1.
	However, alternative analytical methods recommended by analysis laboratories are
	also acceptable.
	* It is preferable to perform analysis by laboratories certified according to ISO 17025.
Di (2-ethylhexyl) phthalate (DEHP)	Analytical method in accordance with IEC 62321 Polymers / Electronics
Dibutyl phthalate (DBP)	- GC-MS (gas chromatography-mass spectrometry)
Benzyl butyl phthalate (BBP)	* Analysis should be performed by the above analytical method* <sup>1</sup> . However,
Diisobutyl phthalate (DIBP)	alternative analytical methods recommended by analysis laboratories are also acceptable.
	* It is preferable to perform analysis by laboratories certified according to ISO 17025.

<sup>\*1</sup> Use the method of analysis, testing, or measurement specified by the Epson Group, if any.

### 2.2 Substances Prohibited from Use in Manufacturing Processes

The following is a list of substances whose use in manufacturing is prohibited by legal or other regulations. The list is not comprehensive.

reş	gulations. The list is not comprehensive.		Deferenced
No.	Substance (Group) Name	CAS No.	Referenced Regulations
1	White phosphorous match (white phosphorous)	12185-10-3	
2	Benzidine and its salts	92-87-5, etc.	
3	4-aminodiphenyl / 4-aminodiphenyl and its salts	92-67-1, etc.	
4	Asbestos	See Table 2.1-3, No. 39	
5	4-nitrodiphenyl and its salts	92-93-3	Substances prohibited by the Industrial Safety and
6	Bis (chloromethyl) ether	542-88-1	Health Law (Japan)
7	2-Naphthylamine / beta-naphthylamine and its salts	91-59-8	(Article 55 and Enforcement Order 16)
8	Rubber cement containing benzene, where the benzene accounts for more than 5% of the rubber cement solvent (including diluting agent)	-	Í
9	Preparations or other substances that contain > 0.1% asbestos by weight; or preparations or other substances that contain > 1% of items 2, 3, 5, 6, or 7 above by weight	-	
10	1,1,1-trichloroethane	71-55-6	
11	Carbon tetrachloride	56-23-5	
12	Methyl bromide / Bromomethane	74-83-9	Montreal Protocol
13	CFC		Montreal Protocol
14	Halon	See Table 2.1-3, No. 40	Annex A, B, E and C-I,
15	HBFCs	<b>54.05.5</b>	II, III
16	Bromochloromethane	74-97-5	
17	HCFC*1	See Table 2.1-3, No. 40	
18	Aldrin	309-00-2	_
19	Alpha hexachlorocyclohexane	319-84-6	_
20	Beta hexachlorocyclohexane	319-85-7	
21	Chlordane	57-74-9	
22	Chlordecone	143-50-0	
23	Decabromodiphenyl oxide (DecaBDE)	1163-19-5	
24	Dieldrin	60-57-1	
25	Endrin	72-20-8	
26	Heptachlor	76-44-8	POPs Convention,
27	Hexabromobiphenyl	36355-01-8	Annex A
28	Hexabromocyclododecane (HBCDD)	See Table 2.1-3	(Elimination)
29	Hexabromodiphenyl ether	36483-60-0, etc.	_
30	Heptabromodiphenyl ether	68928-80-3, etc.	_
31	Hexachlorobenzene	118-74-1	_
32	Hexachlorobuta-1,3-diene	87-68-3	_
33	Gamma hexachlorocyclohexane	58-89-9	_
34	Mirex	2385-85-5	
35	Pentachlorobenzene	608-93-5	_
36	Pentachlorophenol or its salts and esters	87-86-5, etc.	_
37	Polychlorinated biphenyl (PCB)	See Table 2.1-3	_
38	Polychlorinated naphthalenes (with 2–8 chlorine atoms)	See Table 2.1-3	

2.2 Substances Prohibited from Use in Manufacturing Processes

No.	Substance (Group) Name	CAS No.	Referenced Regulations	
39	Short-chain chlorinated paraffins (SCCPs) (limited to those with carbon chains from C10 to C13 and a chlorine content that exceeds 48% to the total mass)	See Table 2.1-3		
40	Endosulfan	115-29-7 959-98-8 33213-65-9		
41	Tetrabromodiphenyl ether	40088-47-9, etc.		
42	Pentabromodiphenyl ether	32534-81-9, etc.		
43	Toxaphene	8001-35-2		
44	2,2,2-trichloro-1,1-bis (4-chlorophenyl) ethanol (Kelthane or Dicofol)	115-32-2		
45	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related compounds	See Table 2.1-3	POPs Convention, Annex A	
46	Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds	See Table 2.1-3	(Elimination)	
47	2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)	25973-55-1		
48	Dechlorane Plus, its syn-isomer and its anti-isomer (1,4:7,10Dimethanodibenzo[a,e]cyclooctene, 1,2,3,4,7,8,9,10,13,13,14,14 dodecachloro1, 4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-)	13560-89-9 135821-03-3 135821-74-8		
49	Long-chain perfluorocarboxylic acids (C9-C21 PFCAs), their salts and C9-C21 PFCA related compounds	See Table 2.1-3		
50	Medium-chain chlorinated paraffins (MCCP)	See Table 2.1-3		
51	DDT	50-29-3	POPs Convention,	
52	Perfluorooctane sulfonates (PFOS) and its salts	See Table 2.1-3	Annex B	
55	Perfluoro-1-octanesulfonyl fluoride (PFOS-F)	307-35-7	(Restriction)	

The following uses are exempt from this prohibition:

- (1) Small amounts of chemical reagent occasionally used as a comparative or calibration chemical in R&D applications.
- (2) CFC and HCFC contained as a cooling agent in existing facilities or equipment.
- (3) Halons contained as an extinguishing material in existing facilities or equipment.

<sup>\*1</sup> The elimination schedule is per the Montreal Protocol and applicable national laws and regulations.

## **Appendix 2: Revision History**

Rev.	Date of Revision	Revised Content	
1	January 15, 2003	Rev. 1.0	
2	August 15, 2003	Added information on things such as groups of controlled substances in products added by Epson	
3	April 15, 2005	Added information regarding an assurance system relating to substances included in products, etc.	
3.1	December 15,2006	Added information to Appendix 1 Substance Handling Standards, including the addition of cobalt chloride to conditionally banned substances and exceptions to substances to be eliminated.	
3.2	April 1, 2008	Appendix 1: Substance Handling Standards - Added 3 substances to unconditionally banned substances (subject to the Chemical Substance Control Law) - Added perfluorooctane sulfonate (PFOS) and its salts to conditionally banned substances Updated Appendix 3: List of Epson Group Companies	
3.3	January 20, 2009	Added "Compliance documents for California Formaldehyde Regulation for Composite Wood Products" to Documents to Be Submitted Appendix 1: Substance Handling Standards  - Added conditions to conditionally banned substances (formaldehyde)  - Added conditions to conditionally banned substances (cadmium, mercury, lead)  Added transport pallets (SEG specifications) to examples of packing materials	
3.4	August 20, 2009	Appendix 1: Substance Handling Standards  - Added dimethyl fumarate to unconditionally banned substances  - Added examples of general use to unconditionally banned substances  - Added conditions to conditionally banned substances (formaldehyde)  - Added exempted applications to conditionally banned substances (cadmium and cadmium compounds)  - Revised conditions for conditionally banned substances (lead and lead compounds)  - Added exempted application to three substances to be eliminated from products (cadmium and cadmium compounds, mercury and mercury compounds, lead and lead compounds)  - Revised analytical standards for four substances to be eliminated from products (cadmium and cadmium compounds, hexavalent chromium and its compounds, mercury and mercury compounds, lead and lead compounds  - Added phthalate to level 2 substances to be eliminated from products Updated Appendix 3: List of Epson Group Companies	
3.5	May 21, 2010	Appendix 1: Substance Handling Standards  < Unconditionally banned substances > Added 6 substances to the "Group subject to the Law Concerning the Examination and Regulation of Manufacture etc. of Chemical Substances (Japan)"  < Conditionally banned substances > - Added tri-substituted organostannic compounds (tributyltin (TBT)/ triphenyltin (TPT) / other tri-substituted organostannic compounds) - Added dioctyltin (DOT) compounds - Revised condition of prohibitions for mercury and its compounds - Revised condition of prohibitions and exemptions for perfluorooctane sulfonates (PFOS) and its salts <substances be="" eliminated="" from="" products="" to=""> - Added dibutyltin (DBT) compounds to level 2 substances  (Continued on the next page)</substances>	

Rev.	Date of Revision	Revised Content
3.5	May 21, 2010	<ul> <li>Added exempted application for cadmium and cadmium compounds, mercury and mercury compounds, lead and lead compounds</li> <li>Limit the scope of Phthalate to DEHP, DBP, BBP</li> <li>Deleted conditions of prohibitions already controlled in accordance with those of conditionally banned substances (e.g., batteries, packaging materials)</li> <li>Updated Appendix 3 List of Epson Group Companies</li> <li>*1 dioctyltin (DOT)/ tributyltin (TBT)/ triphenyltin (TPT) / other Tri-substituted organostannic compounds</li> </ul>
3.6	July 1, 2011	<ul> <li>Appendix 1: Substance Handling Standards</li> <li>Unconditionally banned substances &gt;</li> <li>Added two substances to the "Group subject to the Law Concerning the Examination and Regulation of Manufacture etc. of Chemical Substances (Japan)"</li> <li>Conditionally banned substances &gt;</li> <li>Revised the conditions for prohibitions on cadmium and cadmium compounds, mercury and mercury compounds, lead and lead compounds</li> <li>Added "Treatment of Substances Regulated by REACH Regulation No. 1907 / 2006"</li> <li>Substances to be eliminated from products&gt;</li> <li>Revised exempted applications for cadmium and cadmium compounds, mercury and mercury compounds, lead and lead compounds</li> <li>Added diisobutyl phthalate (DIBP) and hexabromocyclododecane (HBCDD) to level 2 substances to be eliminated from products</li> </ul>
3.7	August 1, 2012	Deleted "PREFACE", "QUALITY PHILOSOPHY" Appendix 1: Substance Handling Standards  < Conditionally banned substances >

Rev.	Date of Revision	Revised Content
3.7.1	April 1, 2013	Updated Appendix 3 List of Epson Group Companies
3.7.2	August 1, 2013	<ul> <li>Updated Appendix 3 List of Epson Group Companies</li> <li>Revised the organization name from "Visual Device Business Unit (the former TFT Operations Division) of the Visual Products Operations Division" to "the TFT liquid crystal panels business of the Visual Products Operations Division"</li> </ul>
3.8	July 1, 2014	Deleted "APPROACH TO ASSURANCE AGAINST CHEMICAL SUBSTANCE INCLUSION IN PRODUCTS" STANDARDS  - Added 2. Basic rules for assuring that banned substances are not contained in products Appendix 1: Substance Handling Standards  - Revised the explanation in 2. Substance group handling standards partially  - Unconditionally banned substances >  - Added Endosulfan, Hexabromocyclododccane (HBCDD) - Polychlorinated naphthalene: (CI: 3 or more) ⇒> (CI: 1 or more)  - Conditionally banned substances >  - Cadmium and its compounds, lead and its compounds, Mercury and its compounds: For use in batteries, see Appendix 2  - Added a condition for jewerly to Lead and its compounds - Added a condition for azodyes to zoz compounds - Moved musk xylene, MDA, diarsenic pentaoxide, diarsenic trioxide, 2,4-DNT, TCEP from level2 Substances to be climinated from products  - Notes regarding substances >  **A: Moved "Products to which EU RoHS Directive (2011/65/EU) applies" from Notes regarding laws  - Notes regarding laws - Added *1 According to Annex XVII of REACH Regulation No. 1907/2006, revised the name of the law of *7  - Added tist of azodyes  - Substances to be eliminated from products >  - Added the following explanations - As of July 2014, applications exempted from the RoHS Directive are being reviewed.  The dates provided in the "Effective date of the prohibition" column in the tables on pages 21-25 are the dates that Epson has independently set as the final dates for accepting goods containing substances that are being phased out. Exempted applications and effective dates of the prohibition may change, depending on the results of reviews of applications exempted from the RoHS Directive.  - Deleted "Analytical standards for substances to be eliminated from products are also shown below. Analytical methods have not been established for all test samples."  - Added "Effective date of the prohibition" for exempted applications and the following explanation.  * Use the method of analysis, testing, or measurement specified by Epson,
		(Continued on the next page)

Ver.	Date of Revision	Revised Content
3.8	July 1, 2014	<ul> <li>Mercury And Mercury Compounds: Revised the name of Hg-3 from "Mercury in straight fluorescent lamps for special purposes" to "Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes"</li> <li>Lead and Lead Compounds: Revised the name of Pb-7 from Lead in ceramic for piezoelectronic devices to Lead in ceramic for electrical and electronic components</li> <li>Lead and Lead Compounds: Revised the comment of Pb-7</li> <li>Lead and Lead Compounds: Added *See Pb-4 for high melting temperature type solders to the comment of Pb-14</li> <li>Added PAH, Trichloroethylene to level 2</li> <li>Substances Banned From Use In Manufacturing Processes&gt;</li> <li>Added Montreal Protocol Annex III and Bromochloromethane</li> </ul>
		<ul> <li>Appendix 2</li> <li>Deleted Appendix 2 "System Check Sheet for Assurance Against Chemical Substance Inclusion in Products"</li> <li>Added Appendix 2 "Conditionally banned substances for battery"</li> <li>Appendix 3</li> </ul>
3.9	July 1, 2015	<ul> <li>Updated Appendix 3 "List of Epson Group Companies"</li> <li>Conditionally banned substances &gt;</li> <li>Moved "Leather articles and articles containing leather parts that come into contact with the skin shall not contain in concentrations equal to or greater than 3 ppm of the total dry weight of the leather" from level 2 Substances to be eliminated from products</li> <li>Dibutyltin (DBT) compounds: Deleted "Adhesives are exempt until December 31, 2014."</li> <li>Moved Trichloroethylene from level 2 Substances to be eliminated from products</li> <li>Added Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-Trimethylpentene (BNST), and Polyvinyl chloride (PVC)</li> <li>Substances to be eliminated from products&gt;</li> <li>Lead and Lead Compounds: Revised effective date of the prohibition for Pb-2 and Pb-3 from July 21, 2015 to April 21, 2016</li> <li>Added Arsenic acid, technical MDA, Diglyme, EDC to level 2</li> <li>Appendix 2 "Conditionally banned substances for battery"</li> <li>Mercury and its compounds: Revised threshold for button cell battery from 20,000ppm to 5ppm</li> </ul>
4	July 1, 2016	<ul> <li>Updated Appendix 3 "List of Epson Group Companies"</li> <li>Unconditionally banned substances&gt; Revised "DBBTs: Pentachlorophenol (87-86-5)" to "Group subject to the Law Concerning the Examination and Regulation of the Manufacture etc. of Chemical Substances (Japan): Pentachlorophenol or its salts and esters"</li> <li>Conditionally banned substances&gt; <ul> <li>Changed the ban conditions for chlorinated paraffin to "Prohibited in amounts exceeding 1000 ppm per delivery configuration."</li> <li>Added red phosphorus</li> <li>Moved "Perfluorooctanoic acid (PFOS) and its salt" and "PAH" from "Substances to Be Eliminated From Products (Level 2)</li> <li>Substances to Be Eliminated From Products&gt;</li> <li>Mercury and its compounds: The effective date of the prohibition was changed from July 21, 2015 to "Immediate" for Hg-1 and Hg-3 used in exempted applications.</li> <li>Lead and its compounds: The effective date of the prohibition was changed from July 21, 2015 to "Immediate" for Pb-5, Pb-14, Pb-27, and Pb-33 used in exempted applications.</li> </ul> </li> <li>(Continued on the next page)</li> </ul>

Ver.	Date of Revision	Revised Content
4	July 1, 2016	The effective date of the prohibition of Pb-2 and Pb-3 used in exempted applications was changed from April 21, 2016 to "One year prior to the legally mandated exemption expiration date."  - Moved "Perfluorooctanoic acid (PFOS) and its salt" and "PAH" to "Conditionally banned substances."
5	July 1, 2018	banned substances."  STANDARDS  Added "(2) Ensure that banned substances are not present in your products." (See Appendix 1 for substance handling standards.)" to 4. Supplier Agreements  In accordance with the introduction of chemSHERPA, revised requirements in 5.  (2) Reporting information about substances in products  Appendix 1: Substance Handling Standards  1. Definitions (1) substance banned in products  Consolidated conditionally banned substances, unconditionally banned substances, and substances to be eliminated from products to "substances banned in products" and regulated "Level 1 banned substances (currently banned)" and "Level 2 banned substances (substances scheduled to be banned)"  In accordance with the introduction of chemSHERPA, revised the definition of (3) controlled substances  Added the following definitions: (4) present, (5) presence banned, (6) intentional inclusion, (7) intentional inclusion prohibited, (8) impurity, (9) homogeneous material, (10) threshold, (11) concentration, (12) article  Added the following tables:  Table 2.1-2 EU RoHS Directive Exemptions  Table 2.1-3 Examples of Banned Substances & Substance Groups  Table 2.1-3 Examples of Banned Substances & Substance Groups  Table 2.1-5 Analysis Standards  2.1 Substances Banned in Products  Consolidated conditionally banned substances, unconditionally banned substances, and substances to be eliminated from products to "substances banned in products" and specified "Regulation (Threshold)" and "Referenced Regulation"  In accordance with the introduction of chemSHERPA, revised the substance (group) names  Revised regulations (thresholds) of the following substances:  No.43 SCCPs (short-chain chlorinated paraffin: 10-13 carbon atoms) are prohibited in amounts exceeding 1000 ppm per delivery configuration (Parts, units, finished products, etc.) => Presence banned  No.44 Perfluorooctane sulfonates (PFOS) and its salt: deleted exemptions  No.46 Formaldehyde: Composite wood products below that do not meet the requirements of sections 931
		and cords: Prohibited in surface coating material in concentrations exceeding 300 ppm, unless the amount has been reported and approved by Epson.  (Continued on the next page)

Ver.	Date of Revision	Revised Content
5	July 1,2018	<ul> <li>In jewelry products (including watch bands), shall not exceed 200ppm. Crystal glass, glass, stainless steel, and natural jewelry not treated with lead additives are exempt.</li> <li>Jewelry (including watch bands) glass and stainless steel shall not contain more than 500 ppm. This does not apply, however, to internal watch parts that consumers do not touch.</li> <li>Jewelry (including watch bands): Prohibited in individual parts in amounts of 500 ppm or more. This does not apply, however, to internal watch parts that consumers do not touch, crystal glass, and natural gems that have not been treated with a lead additive.</li> <li>No.68 Polyvinyl chloride (PVC): Shall not intentionally be added to packing materials. Packing materials used for industrial products and TFT liquid crystal panels are exempt. =&gt; Intentional inclusion prohibited in packaging materials, except in packaging materials for industrial products.</li> <li>Based on the latest legal requirements, revised Table 2.1-1 Battery Restrictions 2.2 Substances Banned from Use in Manufacturing Processes</li> <li>Revised names of the following substances: No.4 Amosite, Crocidolite (blue asbestos) =&gt; Asbestos</li> <li>Revised regulations (thresholds) of the following substances: No. 9 Formulations and other substances containing in excess of 1% by weight of any of the substances cited in Nos. 2 through 8 =&gt; Preparations or other substances that contain &gt; 0.1% asbestos by weight; or preparations or other substances that contain &gt; 1% of items 2, 3, 5, 6, or 7 above by weight</li> <li>Added HCFC</li> <li>Deleted Appendix 3, List of Epson Group Companies</li> </ul>
6	October 1, 2019	STANDARDS 5. (2) Reporting information about substances in products - Additions: 5. (3) Information handling - chemSHERPA-AI file URL: https://chemsherpa.net/english => https://global.epson.com/SR/supply_chain_csr/green_purchasing/chemical_subst ances.html  Appendix 1: Substance Handling Standards 1. Definitions - Added definitions for "chemical substance" and "mixture (preparation)" 2.1 Substances Banned in Products Level 1 banned substances - The names of the following substances were revised: No. 31: "Hexabromocyclododecane (HBCDD) and all major diastereoisomers" was changed to "Hexabromocyclododecane (HBCDD)" No. 69: "Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA" was changed to "Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances" - Revised "in articles" in the Regulation (Threshold) column to "articles and their parts" for the following substances: No. 53: Tri-substituted organostannic compounds; No. 54: Dioctyltin (DOT) compounds; and No. 59: Dibutyltin (DBT) compounds - Deletions: Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-Trimethylpentene (BNST) - Additions: No. 75: 4,4'-isopropylidenediphenol (bisphenol A, BPA) 2.1 Substances Banned in Products Level 2 banned substances - Added 14 substances to a list of level 2 banned substances

Ver.	Date of Revision	Revised Content
6	October 1, 2019	<ul> <li>Table 2.1-1 Battery Restrictions</li> <li>Deleted exemption for batteries designed exclusively for industrial or commercial use (except for lead-acid batteries)</li> <li>Table 2.1-2 EU RoHS Directive Exemptions</li> <li>Updated based on the latest EU RoHS information</li> <li>Table 2.1-3 Examples of Banned Substances &amp; Substance Groups</li> <li>Updated based on the latest IEC62474 information</li> <li>Table 2.1-5 Analysis Standards</li> <li>Updated based on the latest information</li> </ul>
7	June 1, 2021	STANDARDS Deleted "4. Supplier Agreements," "5. Principles for Component Substance Assurance," and "7. Additional Clauses" Added "4. Epson's Expectations of Suppliers," "5. Before Transactions Can Begin," "6. When This Standard is Revised," "7. Information Handling," and "Appendix 2: Revision History" Changed the number and name of "2. Basic Principles of Product Substance Assurance" to "3. Epson's Basic Principles of Product Substance Assurance" Changed the number of "3. Scope" to "2. Scope" Changed the number and name of "6. Requests Regarding Product Substance Assurance" to "8. Requests Regarding the Assurance System for Substances assurance" to "8. Requests Regarding the Assurance System for Substances in Products" Appendix 1: Substance Handling Standards 2.1 Substances Banned in Products Level 1 banned substances Revised names of the following substances: No. 1 White phosphorous -> White phosphorous match (white phosphorous) Added "intentional inclusion prohibited" to the thresholds for packaging materials for the following substances and revised the referenced regulations: No. 47, No. 48, No. 49, No. 50 Gathered the following 4 substances under No. 55: Di (2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP), Benzyl butyl phthalate (BBP), Diisobutyl phthalate (DIBP) The following substances were transferred from the list of level 2 prohibited substances and the thresholds were revised based on the latest information on laws and regulations: No.61 Added the following substances: No.62, No.63, No.64, No.65 Removed 11 substances, of which referenced regulation is EU REACH Regulation (EC) No. 1907/2006, Annex XIV (Substances subject to the TSCA Significant New Use Rule" Added "Table 2. List of long-chain perfluoroalkyl carboxylate subject to the TSCA Significant New Use Rule" Added "Table 3. Uses for which the intentional inclusion of fluorinated greenhouse gases (PFCs, SF6, HFCs) is prohibited" Substances Banned in Products Level 2 banned substances Deleted 14 substances Notes/Comments on substances Added
		(Continued on the next page)

Ver.	Date of Revision	Revised Content
7	June 1, 2021	<ul> <li>Table 2.1-2 EU RoHS Directive Exemptions</li> <li>Added a table for cadmium and cadmium compounds exemptions</li> <li>Table 2.1-3 Examples of Banned Substances &amp; Substance Groups</li> <li>Updated based on the latest IEC62474 information</li> <li>Added 12 substances to the substances that are known to be PFOA-related substances</li> <li>Table 2.1-4 Regulations Referenced</li> <li>Revised number of the law in No. 6 based on the latest regulation</li> <li>Revised the names of the regulation in No. 34</li> <li>Added the following laws and regulations: <ul> <li>EU Regulation No. 517/2014 on Fluorinated Greenhouse Gases</li> <li>No. 26 TSCA Significant New Use Rule</li> <li>No. 31 U.S. regulations on hazardous substances in packaging materials</li> </ul> </li> <li>Deleted the following laws and regulations: <ul> <li>EU REACH Regulation (EC) No 1907/2006, Annex XIV (Substances subject to authorization)</li> </ul> </li> <li>2.2 Substances banned from use in manufacturing processes</li> <li>Revised names of the following substances: <ul> <li>No. 1 White phosphorous -&gt; White phosphorous match (white phosphorous)</li> </ul> </li> <li>Added the following substances:</li> </ul>
8	June 1, 2022	- 31 substances from No. 18 to No. 48  2.1 Substances Banned in Products Level 1 banned substances - Revised names of the following substances based on the latest legislation and standard: No.61 Perfluorocotanoic acid (PFOA) and its salts and PFOA-related substances => Perfluorocotanoic acid (PFOA) and its salts and PFOA-related compounds - Added two substances, in No. 66 & 67 2.1 Substances Banned in Products Level 2 banned substances - Added one substance in No. 1 Notes/Comments on substances - Added "To prevent a fire." to note *9 - Added *12 and *13 Table 2.1-1 Battery Restrictions - Revised the threshold for lead and lead compounds in button cell alkaline batteries - Added conditions for bans on silver-oxide batteries and zinc-air batteries Table 2.1-2 EU ROHS Directive Exemptions - Updated the table for mercury and mercury compounds based on the latest legal requirements Table 2.1-3 Examples of Banned Substances & Substance Groups - Added examples of substances in substance groups that were added to Level 1 & Level 2 banned substances Table 2.1-4 Regulations Referenced - Revised the name & number of the laws in No. 20 & No. 23 based on the latest legislation - Revised the name of the regulation in No. 34  2.2 Substances banned from use in manufacturing processes - Revised names of the following substances based on the latest legislation and standard: No.45 Perfluorocatanoic acid (PFOA) and its salts and PFOA-related substances => Perfluorocatanoic acid (PFOA) and its salts and PFOA-related compounds

Ver.	Date of Revision	Revised Content
9	September 1, 2023	STANDARDS  • Changed the expression "ban" to "prohibit" throughout the standard, except for a few.
		<ul> <li>STANDARDS</li> <li>Changed the expression "ban" to "prohibit" throughout the standard, except for a few.</li> <li>4. Epson's Expectations of Suppliers: (3) Report information about substances in products.</li> <li>"Use either 1) the chemSHERPA-AI file or 2) a format specified by an Epson business unit to report substances in production materials delivered to Epson." ⇒ "Please follow the instructions of the Epson business unit and use either or both of 1) the chemSHERPA-AI file and 2) a format specified by the Epson business unit to report substances in production materials delivered to Epson."</li> <li>"Compliance assessment information is mandatory. Please provide composition information to the extent possible." ⇒ "Both compliance assessment information will be needed."</li> <li>Added website title: "Information about Product Substances (Epson Standard Survey))"</li> <li>Changed the URL of Epson's website</li> <li>Appendix 1: Substance Handling Standards</li> <li>1. Definitions ⇒ 1. Explanation of Terms</li> <li>The explanations and order of the following terms were changed: <ol> <li>substances prohibited from use in manufacturing processes,</li> <li>substances, (4) present/included, (5) intentional inclusion, (6) impurity,</li> <li>threshold, (8) concentration, (9) homogeneous material</li> <li>The following terms were added:</li> <li>Scope of Application (item in the table of substances prohibited in products)</li> <li>Requirements and Thresholds (item in the table of substances prohibited in products)</li> <li>Requirements and Thresholds (item in the table of substances prohibited in products)</li> <li>Enemptions (item in the table of substances prohibited in products)</li> <li>Seeferenced Regulations (item in the table of substances prohibited in products)</li> <li>Substance Group Handling Standards</li> <li>"Handling standards have been established pursuant to applicable laws and regulations." ⇒ Deleted</li> <li>"Please ensure compliance with specified conditions relating to banned substances (e</li></ol></li></ul>
		<ul> <li>2.1 Substances Prohibited in Products         Added information about the items for Level 1prohibited substances and Level 2         prohibited substances</li> <li>2.1 Substances Banned in Products</li> <li>Changed the layout and column titles of the tables for Level 1prohibited</li> </ul>
		substances and Level 2 prohibited substances - Deleted the "Regulation (Threshold)" title - Added titles for three columns: "Scope of Application," "Requirements and Thresholds," and "Exemptions" - Changed the column titles in the table for Level 2 prohibited substances
		<ul> <li>Column title: "Effective date of the ban" ⇒ "Effective Date"</li> <li>In conjunction with the change in table column titles, the wording of criteria was changed for Level 1 prohibited substances and Level 2 prohibited substances. Except for where noted below, the essential requirements have not changed. (Continued on the next page)</li> </ul>

Ver.	Date of Revision	Revised Content
Ver.	Date of Revision September 1, 2023	<ul> <li>Level 1prohibited substances</li> <li>Changed the criteria for the following substances, based on the latest regulations:         <ul> <li>No. 45 Formaldehyde</li> <li>No. 56 Dioctyltin (DOT) compounds</li> <li>No. 69 C9-C14 PFCAs, their salts, and C9-C14 PFCA-related substances</li> <li>The following substances were given their own entries as substances in conjunction with changes in the table layout.</li> <li>No. 49 Lead carbonate</li> <li>No. 50 Lead sulfate</li> <li>No. 50 Lead sulfate</li> <li>No. 50 Lead sulfate</li> <li>No. 70 MOAH comprising of 1 to 7 aromatic rings</li> <li>No. 71 Per- and poly-fluoroalkyl substances (PFAS)</li> </ul> </li> <li>Deleted "White phosphorous match (white phosphorous)" from the list.</li> <li>Level 2 prohibited substances</li> <li>Changed the criteria for the following substances, based on the latest regulations:         <ul> <li>No. 1 C9-C14 PFCAs, their salts, and C9-C14 PFCA-related substances</li> <li>Added the following substances, newly:             <ul> <li>No. 2 MOAH comprising of 1 to 7 aromatic rings</li> <li>No. 3 MOAH comprising of 3 to 7 aromatic rings</li> <li>No. 3 MOAH comprising of 3 to 7 aromatic rings</li> <li>No. 3 MOAH with 16 to 35 carbon atoms</li> <li>No. 5 Per- and poly-fluoroalkyl substances (PFAS)</li> <li>Notes/Comments on substances</li> <li>Changed the explanation in note 5, based on the latest regulations.</li> <li>Added the explanation in note 5, based on the latest regulations.</li> <li>Added the explanation in note 5, based on the latest regulations.</li> <li>Changed the explanation of PFAS as note 14, newly.</li> <li>A list of some aromatic amines was added as Tabl</li></ul></li></ul></li></ul>
		<ul> <li>No. 40 The Health and Safety Code, relating to public health: AB1817 Product safety: textile articles: PFAS</li> <li>2.2 Substances Prohibited from Use in Manufacturing Processes</li> <li>Added No. 46 "PFHxS, its salts and PFHxS-related compounds"</li> </ul>
		<ul> <li>Revised the number of the substance in No. 47, 48 and 49</li> <li>Corrected the Referenced Regulations of No. 47 DDT to "POPs Convention, Annex B (Restriction)"</li> </ul>

products.  - Added the following sentence:  "Epson asks suppliers to submit the information for production materials delivere to Epson, as identified through the supply chain."  - Reorganized the contents and divided into <format of="" submission=""> and &lt; Information about SVHC on the candidate list of EU REACH regulation&gt; and revised some of the wording.  - Listed the format and details of the information to be submitted in a table.  - Stated that chemSHERPA-CI file should be used to submit for chemical products Appendix 1: Substance Handling Standards  • 1. Explanation of Terms  - Added the explanation of the "(16) IEC 62474 DSL's ID"  • 2.1 Substances Prohibited in Products  - Added "IEC 62474 DSL's ID" in the table  • Level 1 prohibited substances  - Changed the criteria for the following substances, based on the latest regulations:  No. 17 2,4,6-tri-tert-butylphenol  No. 31 Pentachlorophenol or its salts and esters  No. 63 PFOA and its salts and PFOA-related compounds  No. 69 C9-C14 PFCAs, their salts and C9-C14 PFCA-related compounds</format>	Ver.	Date of Revision	Revised Content
<ul> <li>2.1 Substances Prohibited in Products</li> <li>Added "IEC 62474 DSL's ID" in the table</li> <li>Level 1 prohibited substances</li> <li>Changed the criteria for the following substances, based on the latest regulations: No. 17 2,4,6-tri-tert-butylphenol</li> <li>No. 31 Pentachlorophenol or its salts and esters</li> <li>No. 63 PFOA and its salts and PFOA-related compounds</li> <li>No. 69 C9-C14 PFCAs, their salts and C9-C14 PFCA-related compounds</li> </ul>	10	September 1, 2024	<ul> <li>4. Epson's Expectations of Suppliers: (3) Report information about substances in products.</li> <li>Added the following sentence: "Epson asks suppliers to submit the information for production materials delivered to Epson, as identified through the supply chain."</li> <li>Reorganized the contents and divided into <format of="" submission=""> and &lt; Information about SVHC on the candidate list of EU REACH regulation&gt; and revised some of the wording.</format></li> <li>Listed the format and details of the information to be submitted in a table.</li> <li>Stated that chemSHERPA-CI file should be used to submit for chemical products. Appendix 1: Substance Handling Standards</li> </ul>
No. 70 MOAH comprising 1 to 7 aromatic rings - Added the following substances, newly: No. 71 MOAH comprising 3 to 7 aromatic rings No. 72 MOSH comprising 16 to 35 aromatic rings No. 74 UV-328 No. 75 Dechlorane Plus, which includes its syn-isomer and its anti-isomer • Level 2 prohibited substances - Added the following substances, newly: No. 2 Bisphenols No. 3 C9-C21 PFCAs, their salts and C9-C21 PFCA-related compounds - Deleted following substances: C9-C14 PFCAs, their salts and C9-C14 PFCA-related compounds MOAH comprising 3 to 7 aromatic rings MOSH comprising 16 to 35 aromatic rings • Notes/Comments on substances - Added sentences regarding to *15, *16 and *17, newly. • Table 2.1-3 Examples of Prohibited Substances & Substance Groups - Revised the explanations about the No. in the table Added 9 substances as examples of Bisphenols - Added 16 substances as examples of C9-C21 PFCAs and their salts - Added 6 substances as examples of C9-C21 PFCA related compounds • Table 2.1-4 Regulations Referenced - Added following regulations referenced: No. 41 Stockholm Convention No. 42 Safer Products Regulations and Reporting - Revised the regulation number of the No.7 • 2.2 Substances Prohibited from Use in Manufacturing Processes - Added following substances: No. 47 UV-328 No. 48 Dechlorane Plus, its syn-isomer and its anti-isomer			- Added the explanation of the "(16) IEC 62474 DSL's ID"  • 2.1 Substances Prohibited in Products - Added "IEC 62474 DSL's ID" in the table  • Level 1 prohibited substances - Changed the criteria for the following substances, based on the latest regulations: No. 17 2,4,6-tri-tert-butylphenol No. 31 Pentachlorophenol or its salts and esters No. 63 PFOA and its salts and PFOA-related compounds No. 69 C9-C14 PFCAs, their salts and C9-C14 PFCA-related compounds No. 70 MOAH comprising 1 to 7 aromatic rings - Added the following substances, newly: No. 71 MOAH comprising 3 to 7 aromatic rings No. 72 MOSH comprising 16 to 35 aromatic rings No. 72 MOSH comprising 16 to 35 aromatic rings No. 75 Dechlorane Plus, which includes its syn-isomer and its anti-isomer • Level 2 prohibited substances - Added the following substances, newly: No. 2 Bisphenols No. 3 C9-C21 PFCAs, their salts and C9-C21 PFCA-related compounds - Deleted following substances: C9-C14 PFCAs, their salts and C9-C14 PFCA-related compounds MOAH comprising 3 to 7 aromatic rings MOSH comprising 3 to 7 aromatic rings Notes/Comments on substances - Added sentences regarding to *15, *16 and *17, newly. • Table 2.1-3 Examples of Prohibited Substances & Substance Groups - Revised the explanations about the No. in the table Added 9 substances as examples of Bisphenols - Added 16 substances as examples of Bisphenols - Added 6 substances as examples of G9-C21 PFCA related compounds • Table 2.1-4 Regulations Referenced - Added 6 substances as examples of C9-C21 PFCA related compounds • Table 2.1-4 Regulations Referenced - Added following regulations referenced: No. 41 Stockholm Convention No. 42 Safer Products Regulations and Reporting - Revised the regulation number of the No. 7 • 2.2 Substances Prohibited from Use in Manufacturing Processes - Added following substances: No. 47 UV-328

Ver.	Date of Revision	Revised Content
11	September 1, 2025	STANDARDS
		•4. Epson's Expectations of Suppliers
		(3) Report information about substances in products.
		<information about="" candidate="" eu="" list="" of="" on="" reach="" regulation="" svhc="" the=""> - "0.1% w/w in articles" =&gt; "0.1% w/w in articles or mixtures"</information>
		- Added the URL of ECHA as a reference source for the relevant substances.
		<ul> <li>Added the ORL of ECHA as a reference source for the relevant substances.</li> <li>Information about Class I Specified Chemical Substances on Japanese Law</li> </ul>
		Concerning the Examination and Regulation of the Manufacture etc. of Chemical
		Substances >
		- Newly added
		Appendix 1: Substance Handling Standards
		• 1. Explanation of Terms
		(16) IEC 62474 DSL's ID (item in the table of substances prohibited in products)
		- "This item specifies the ID (identifier) of chemical substance in Declarable
		Substance List specified by IEC 62474 which corresponds to the chemical
		substance in the table." => "This item specifies the ID (identifier) of chemical substance in Declarable
		Substance List specified by IEC 62474, and is same as the ID of the compliance
		assessment information of chemSHERPA-AI."
		• Level 1 prohibited substances
		- Modified the scope of application and exemptions for No.7. PCBs and specific
		substitutes
		- Modified the requirements and threshold for No.17 2,4,6-tri-tert-butylphenol.
		- Modified the requirements and threshold for No.36 PBB
		- Modified the scope of application and exemptions for No.38 PBDE
		<ul> <li>Modified the scope of application and exemptions for No.40 PCNs (Cl ≥ 1)</li> <li>Modified the scope of application and exemptions for No.44 SCCP</li> </ul>
		- Modified the scope of application, requirements and threshold and exemptions for
		No.85 PFAS
		- Newly added exemptions for the following substances: No.9 to No.31
		- Split the following substances previously designated as a single group and revised
		their exemption details:
		- No.45 PFOS and its salts, No.46 PFOS-related compounds
		<ul> <li>No.68 PFOA and its salts, No.69 PFOA-related compounds</li> <li>No.74 PFHxS and its salts, No.75 PFHxS-related compounds</li> </ul>
		- No.74 FFTIXS and its saits, No.75 FFTIXS-related compounds - No.76 C9-C14 PFCAs and their salts, No.77 C9-C14 PFCA-related substances
		- Newly added the following substances:
		- No.37 Hexabromobiphenyl
		- No.39 Bis(pentabromophenyl) ether
		- No.66 4,4'- sulfonyldiphenol (bisphenol S, BPS)
		- No.67 Bisphenols
		- No.82 C9-C21 PFCAs, their salts and C9-C21 PFCA related compounds
		- No.83 Perfluorohexanoic acid (PFHxA) and its salts - No.84 PFHxA-related substances
		- No.87 Medium-chain chlorinated paraffins (MCCP)
		- No.88 Halogenated flame retardants
		• Level 2 prohibited substances
		- Newly added the following chemical substances:
		- No.2 UV-328
		- No.3 Medium-chain chlorinated paraffins (MCCPs)
		- The following substances were removed due to the enforcement of their
		application period and added to Level 1 prohibited substances:
		- Bisphenols - C9-C21 PFCAs and their salts, and C9-C21 PFCA-related compounds
		(Continued on the next page)
		Communed on the next page)

Notes/Comments on substances	 Date of Revision	Revised Content
• 2.2 Substances Prohibited from Use in Manufacturing Processes	<u> </u>	<ul> <li>Notes/Comments on substances</li> <li>Added the note "A type of PFOS-related compound" to *2</li> <li>Revised the wording of annotation *7</li> <li>Updated the content of annotations *3, *4, *11, *12, and *18 based on the latest legal regulations</li> <li>Newly added annotations *19, *20, *22, *23, and *24</li> <li>Deleted the note for Decabromodiphenyl ether as it has been added to the Level 1 prohibited substances</li> <li>Table 2.1-2 EU RoHS Directive Exemptions</li> <li>Revised the wording of the explanatory text related to Table 2.1-2</li> <li>"Expiration" ⇒ "Expiration date set by Epson"</li> <li>"Expired" ⇒ "Already prohibited"</li> <li>Added "Product categories" as a column in the table</li> <li>Specified the legal expiration date and Expiration date set by Epson for each product category</li> <li>Removed annotations related to product categories</li> <li>Changed the legal deadline to "To be decided" for items with pending exemption extension applications</li> <li>Deleted the following exemptions not used by Epson: 5(b), 7(b), 7(c)-III, 24, 29</li> <li>Table 2.1-3 Examples of Prohibited Substances &amp; Substance Groups</li> <li>Added 3 example substances for "PFOS and its salts"</li> <li>Added 1 example substances for "PFHxA and its salts"</li> <li>Added 3 example substances for "PFHxA-related substances"</li> <li>Added 3 example substances for "PFHxA-related substances"</li> <li>Added 3 example substances for "Halogenated flame retardants"</li> <li>Table 2.1-4 Regulations Referenced</li> <li>Updated the name and number of the law for item No.7 based on the latest legal regulations</li> <li>2.2 Substances Prohibited from Use in Manufacturing Processes</li> </ul>
		<ul> <li>Updated the name and number of the law for item No.7 based on the latest legal regulations</li> <li>2.2 Substances Prohibited from Use in Manufacturing Processes</li> <li>Newly added the following chemical substances:</li> </ul>

# Issued by Seiko Epson Corporation

Global Environmental Strategy Promotion Office

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