

Epson Group
Green Purchasing Standard for
Production Materials

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SEIKO EPSON CORPORATION

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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).

However, packaging materials used for delivering products to Epson that doesn’t comprise Epson products, such as those that Epson will dispose of, are excluded. If you are unsure whether your product is covered, please contact your delivery department.

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.

<Subject>

The submission subjects are the Level 4: Controlled Substances specified in Appendix 1.

<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-AI/CI file	Please submit chemSHERPA-AI file for articles and chemSHERPA-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://global.epson.com/supplier/en/green-purchasing/chemical-substances.html
2) Others : Format specified by Epson	For detailed information, please see the following website; Surveys and Submissions (Operations Division Surveys) URL: https://global.epson.com/supplier/en/green-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 E 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
<https://echa.europa.eu/candidate-list-table>

<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 60 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 at least 30 days before 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 60 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 your 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 your 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, as needed.

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: 2.3).

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 2.3 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 in your company.
 - 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 nonconforming.
 - 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 and wait for Epson to check the situation before making a 4M change.
 - Even if it is unavoidable that you will have to wait until after the fact, please notify your point of contact at Epson.
- 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 your 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

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

(2) 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.

(3) 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.

(4) 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.

(5) 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.

(6) concentration

$$(\text{weight of the substance}) / (\text{weight of part in which the substance is present})$$

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.

(7) 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.

- (8) 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.
- (9) mixture (preparation)
A mixture intentionally comprising two or more chemical substances. Examples are paints, inks, alloy ingot, solder, resin pellets containing additives, etc.
- (10) Scope of Application (item in the Standards of Substances in Products)
This item specifies the types of products, components, materials, and uses that the criteria for the substances listed in the table cover.
- (11) Requirements and Thresholds (item in the Standards of Substances 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.
- (12) Exemptions (item in the Standards of Substances 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.
- (13) Referenced Regulations (item in the Standards of Substances 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 D.
- (14) IEC 62474 DSL's ID (item in the Standards of Substances 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 the DSL of IEC 62474.

2. Substance Group Handling Standards

2.1 Control Categories for Substances

Epson categorizes chemical substances related to production materials as shown in the table below and defines the requirements for each category.

Categories		Requirements for inclusion		Description
		Prohibition/ Restriction	Submitting Information	
Substances Contained in Products	Level 1: Substances Currently Prohibited	Required	Required	Chemical substances subject to immediate prohibition or restriction standards for production materials. Compliance with the standards (including requirements and thresholds) for the chemical substances specified in Section 2.2.1 is required. In addition, regardless of whether the substances comply with requirements and thresholds of Section 2.2.1, please submit information on their inclusion in accordance with the method described in Section 4.(3) of this standard.
	Level 2: Substances Prohibited as of a Specified Date	Required	Required	Chemical substances subject to prohibition or restriction standards for production materials from a specified future date. As of the specified date, these substances will be reclassified as “Level 1: Substances Currently Prohibited.” Compliance with the standards (including requirements and thresholds) for the chemical substances specified in Section 2.2.2 is required. In addition, regardless of whether the substances comply with requirements and thresholds of Section 2.2.2, please submit information on their inclusion in accordance with the method described in Section 4.(3) of this standard.
	Level 3: Candidate Substances for Prohibition	Not required	Required	The term refers to chemical substances that are expected to be prohibited in the future under laws and regulations, and that Epson designates as candidates for either “Level 1: Substances Currently Prohibited” or “Level 2: Substances Prohibited as of a Specified Date.” At present, their inclusion does not pose an issue. However, Epson may proactively work to reduce specified chemical substances ahead of regulatory requirements, depending on circumstances. As stipulated in Section 2.2.3, it is recommended that alternatives be considered and implemented regardless of whether a request has been made by Epson. In addition, if their inclusion is known, please submit information regarding such inclusion in accordance with the method described in Section 4.(3) of this standard.
	Level 4: Controlled Substances	Not required	Required	The term refers to chemical substances for which Epson requires the submission of information regarding their inclusion in production materials, based on laws, regulations, or industry standards. As specified in Section 2.2.4, if any of the specified substances are contained in amounts exceeding the threshold, please submit information regarding such inclusion in accordance with the method described in Section 4.(3) of this standard.
Substances Prohibited from Use in Manufacturing Processes		Not required	Not required	A substance whose use is banned by Epson in manufacturing processes for production materials.

2.2 Standards of Substances in Products

2.2.1 Level 1: Substances Currently Prohibited

Chemical substances subject to immediate prohibition or restriction standards for production materials. Please ensure compliance with the specified criteria (requirements and thresholds, etc.) for the substances.

Level 1 prohibited substances: Substances to which criteria apply currently

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-1	Benzidine and its salts	92-87-5, etc.	All	Presence prohibited	—	16	—
1-2	4-aminodiphenyl and its salts	92-67-1, etc.	All	Presence prohibited	—	16	—
1-3	4-nitrodiphenyl and its salts	92-93-3, etc.	All	Presence prohibited	—	16	—
1-4	Bis (chloromethyl) ether	542-88-1	All	Presence prohibited	—	16	—
1-5	2-naphthylamine (also known as beta-naphthylamine) and its salts	91-59-8, etc.	All	Presence prohibited	—	16	—
1-6	Benzene	71-43-2	Rubber cement	5% in a rubber cement solvent containing a diluent	—	16	—
1-7	Polychlorinated biphenyls (PCBs) and specific substitutes	See Table C	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, 17	00046
			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	
1-8	Polychlorinated terphenyls (PCTs)	See Table C	All	Presence prohibited ^{*1}	—	3	00047
1-9	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	—

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-10	Aldrin	309-00-2	All	Presence prohibited	When contained as an impurity	6, 11, 17	—
1-11	Dieldrin	60-57-1	All	Presence prohibited	When contained as an impurity	6, 11, 17	—
1-12	Endrin	72-20-8	All	Presence prohibited	When contained as an impurity	6, 11, 17	—
1-13	DDT	50-29-3	All	Presence prohibited	When contained as an impurity	6, 11, 17	—
1-14	Chlordane or Heptachlor	57-74-9, etc.	All	Presence prohibited	When contained as an impurity	6, 11, 17	—
1-15	Bis (tributyltin) oxide	56-35-9	All	Presence prohibited	When contained as an impurity	17	00054
1-16	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	—
1-17	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	17, 25	—
			All other than the above	Presence prohibited	When contained as an impurity		
1-18	Toxaphene	8001-35-2	All	Presence prohibited	When contained as an impurity	6, 11, 17	—
1-19	Mirex	2385-85-5	All	Presence prohibited	When contained as an impurity	6, 11, 17	—
1-20	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	—
1-21	Hexachlorobuta-1,3-diene	87-68-3	All	Presence prohibited	When contained as an impurity	6, 11, 17, 25	—
1-22	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

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-23	Perfluorooctane sulfonyl fluoride (PFOS-F) ^{*2}	307-35-7	All	Presence prohibited	When contained as an impurity	17	—
1-24	Pentachlorobenzene	608-93-5	All	Presence prohibited	When contained as an impurity	6, 17	—
1-25	Alpha hexachlorocyclohexane	319-84-6	All	Presence prohibited	When contained as an impurity	6, 17	—
1-26	Beta hexachlorocyclohexane	319-85-7	All	Presence prohibited	When contained as an impurity	6, 17	—
1-27	Gamma hexachlorocyclohexane	58-89-9	All	Presence prohibited	When contained as an impurity	6, 17	—
1-28	Chlordecone	143-50-0	All	Presence prohibited	When contained as an impurity	6, 17	—
1-29	Endosulfan	115-29-7 959-98-8 33213-65-9	All	Presence prohibited	When contained as an impurity	6, 17	—
1-30	Hexabromocyclododecane (HBCDD)	See Table C	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 75ppm or less is contained in a chemical substance, mixture (preparation), or article	6, 17	00020

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-31	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	—
1-32	DBBT (monomethyl-dibromo-diphenyl methane)	99688-47-8	All	Presence prohibited	—	3	—
1-33	DBB (di-μ-oxo-di-n-butyltin hydroxyborane)	75113-37-0	All	Presence prohibited	—	3	—
1-34	Monomethyl-tetrachloro-diphenyl methane	76253-60-6	All	Presence prohibited	—	3	—
1-35	Monomethyl-dichloro-diphenyl methane	81161-70-8	All	Presence prohibited	—	3	—
1-36	Polybrominated biphenyls (PBB)* ¹	See Table C	All	1,000 ppm in homogeneous material	—	2	00044
1-37	Hexabromobiphenyl	36355-01-8, etc.	All	Presence prohibited	When contained as an impurity	6, 17	—
1-38	Polybrominated diphenylethers (PBDE)	See Table C	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
			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	
1-39	Bis(pentabromophenyl) ether (decabromodiphenyl ether; decaBDE)	1163-19-5	All	Presence prohibited	—	6, 17, 25	00064

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-40	Polychlorinated naphthalene (Cl: 1 or more)	See Table C	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	
1-41	Asbestos	See Table C	All	Presence prohibited	—	3, 11, 25	00003
1-42	Ozone-depleting substances (CFC, Halon, HBFC, HCFC & others)	See Table C	All	Presence prohibited	—	1, 5, 18, 27	00032
1-43	Dimethyl fumarate	624-49-7	All	Presence prohibited*1	—	3	00016
1-44	Alkanes, C10-13, chloro (Short chain chlorinated paraffins)	See Table C	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	6, 11, 15, 17	00052
			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		
1-45	Perfluorooctane sulfonates (PFOS) and its salts*3	See Table C	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
1-46	PFOS-related compounds	See Table C	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	—

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-47	Nickel and nickel compounds	See Table C	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/cm ² /week	Products that have a non-nickel coating that ensures that the rate of nickel release from products does not exceed 0.5 µg/cm ² /week for at least two years under normal usage conditions.	3	00031
1-48	Formaldehyde	50-00-0	• Clothing or related accessories • Textiles other than clothing that come into contact with human skin to an extent similar to clothing • Footwear	75 ppm in homogeneous material	—	3	00019
			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	—
1-49	Cadmium and cadmium compounds	See Table C	All	100 ppm in homogeneous material	Exemptions: Table B	2	00010
			Stabilizers, pigments, paints/inks, and plating used in products	75 ppm in homogeneous material	—	14	—
			Batteries	See Table A	—	Table A	00011
			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	—

2.2.1 Level 1: Substances Currently Prohibited

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

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-54	Mercury and mercury compounds	See Table C	All	Intentional inclusion prohibited. Or, 1,000 ppm in homogeneous material	Exemptions: Table B	2, 12	00029
			Batteries	See Table A	—	Table A	00030, 00132
			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	—
1-55	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
1-56	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	—
1-57	Cobalt chloride* ⁶	7646-79-9	Silica gel and other preparations	100 ppm in silica gel and other preparations	—	3	00013
1-58	Tri-substituted organostannic compounds* ⁷	See Table C	All	1,000 ppm in articles and their parts (calculated as a tin equivalent)	—	3, 15, 17	00055
1-59	Diocetyl tin (DOT) compounds	See Table C	- Textile or leather articles intended to come into contact with the skin - Footwear - Childcare articles - Two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	1,000 ppm in articles and their parts (calculated as a tin equivalent)	—	3	00015
1-60	Dibutyltin (DBT) compounds	See Table C	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

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-61	Di (2-ethylhexyl) phthalate (DEHP) Dibutyl phthalate (DBP) Benzyl butyl phthalate (BBP) Diisobutyl phthalate (DIBP)	117-81-7 84-74-2 85-68-7 84-69-5	All	1,000 ppm of each substance in homogeneous materials	—	2	00038, 00039, 00040, 00041
			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
1-62	Polyvinyl chloride (PVC), Polyvinylidene chloride (PVDC)	9002-86-2 9002-85-1	Packaging materials	Intentional inclusion prohibited	—	21	—
1-63	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 water-proof substance or a corresponding action has been taken to effectively control the generation of phosphate.	Epson policy ^{*9}	—
1-64	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

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-65	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) Unintentional inclusion 2) When 200ppm or less is contained in thermal paper	3, 11	00141
1-66	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) Unintentional inclusion 2) When 200ppm or less is contained in thermal paper	11	—
1-67	Bisphenols ^{*10}	See Table C	Thermal paper (Includes adhesive labels using thermal paper)	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) Unintentional inclusion 2) The sum of Bisphenols contained in thermal paper is below 200 ppm	42	—
1-68	Perfluorooctanoic acid (PFOA) and its salts ^{*11}	See Table C	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
1-69	PFOA-related compounds ^{*12}	See Table C	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
1-70	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	—

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-71	Phenol, isopropylated phosphate (3:1) [PIP(3:1)]	68937-41-7	All	Presence prohibited	Lubricants, greases (Valid until Oct. 31, 2038) *This is designated as a Level 2: Substances Prohibited as of a Specified Date	25	00174
1-72	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	—
1-73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	See Table C	Applications in Table 4	Intentional inclusion prohibited	—	8	00018
1-74	Perfluorohexane sulfonic acid (PFHxS) and its salts * ¹⁴	See Table C	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
1-75	PFHxS-related compounds * ¹⁵	See Table C	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
1-76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs) and their salts * ¹⁶	See Table C	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
1-77	C9-C14 PFCA-related compounds * ¹⁷	See Table C	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

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-78	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	—
1-79	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	—
1-80	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	—
1-81	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	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 1ppm or less is contained in substance, mixture, or article.	6, 17	00147
1-82	Long-chain perfluorocarboxylic acids(C9-C21 PFCAs) and their salts	See Table C	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-C21 PFCAs and their salts are contained in substances, mixtures, or articles is below 0.025 ppm (25 ppb).	41	—
1-83	C9-C21 PFCA related compounds ^{*18}	See Table C	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-C21 PFCA-related compounds are contained in substances, mixtures, or articles is below 0.26 ppm (260 ppb).	41	—

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-84	Perfluorohexanoic acid (PFHxA), its salts ^{*19}	See Table C	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	—
1-85	PFHxA-related substances ^{*20}	See Table C	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	—
1-86	Per- and poly-fluoroalkyl substances (PFAS) ^{*21}	See Table C	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.	—	40	00193
			Printing media for food contact packaging	Presence prohibited in concentrations equal to or greater than 25 ppb as individual substance in individual materials	When applicable to polymeric PFAS ^{*22}	7	
				Presence prohibited in concentrations equal to or greater than 250 ppb for the sum of PFAS in individual materials			
				Presence prohibited in concentrations equal to or greater than 50 ppm for the sum of PFAS in individual materials	—		
1-87	2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)	25973-55-1	All	Presence prohibited	If any of the following applies 1) When contained as an impurity at 1 ppm or less in a substance, mixture, or article. 2) For the following uses (Valid until August 31, 2029): Contained in triacetylcellulose film inside polarizers *2) is designated as a Level 2: Substances Prohibited as of a Specified Date.	6, 17	00130

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-88	Medium-chain chlorinated paraffins (MCCP) * ²³	See Table C	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) When 1000ppm or less is contained in a substance, mixture, or article.	41	00178
1-89	Halogenated Flame Retardants	See Table C	Plastic external enclosures of electric and electronic products powered by battery or 120V outlets * ²⁴	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 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	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.	42	00171
			Plastic molding materials		Plastic molding materials that Epson has 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)		

2.2.1 Level 1: Substances Currently Prohibited

No.	Substance (Group) Name	CAS No.	Scope of Application	Requirements and Thresholds	Exemptions	Referenced Regulations	IEC 62474 DSL's ID
1-90	Perfluoroheptane sulfonic acid (PFHpS) and its salts	See Table C	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) The sum of PFHpS or any of its salts are contained in substances, mixtures or articles in concentrations equal to or below 0.025 ppm (25 ppb).	43	—
1-91	PFHpS related compounds ^{*25}	See Table C	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) The sum of PFHpS related compounds are contained in substances, mixtures, or articles is below 1 ppm (1000 ppb).	43	—
1-92	Perfluorononane sulfonic acid (PFNS) and its salts	See Table C	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) The sum of PFNS or any of its salts are contained in substances, mixtures or articles in concentrations equal to or below 0.025 ppm (25 ppb).	43	—
1-93	Perfluorodecane sulfonic acid (PFDS) and its salts	See Table C	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) The sum of PFDS or any of its salts are contained in substances, mixtures or articles in concentrations equal to or below 0.025 ppm (25 ppb).	43	—
1-94	PFNS related compounds ^{*26} and PFDS related compounds ^{*27}	See Table C	All	Presence prohibited	Cases corresponding to the conditions in both 1) and 2) below: 1) When contained as an impurity 2) The sum of PFNS related compounds and PFDS related compounds are contained in substances, mixtures, or articles is below 1 ppm (1000 ppb).	43	—

2.2.2 Level 2: Substances Prohibited as of a Specified Date

Chemical substances subject to prohibition or restriction standards for production materials from a specified future date. 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	Effective Date	Referenced Regulations	IEC 62474 DSL's ID
2-1	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: Substances Currently Prohibited. 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
2-2	Phenol, isopropylated phosphate (3:1) [PIP(3:1)]	68937-41-7	Lubricants, greases	Presence prohibited	—	November 1, 2039	25	00174

2.2.3 Level 3: Candidate Substances for Prohibition

Candidate Substances for Prohibition are listed bellow. At present, their inclusion does not pose an issue. However, Epson may proactively work to reduce specified chemical substances ahead of regulatory requirements, depending on circumstances. It is recommended that alternatives be considered and implemented.

No.	Substance (Group) Name	CAS No.	Scope of Application	Exemptions	IEC 62474 DSL's ID
3-1	Per- and poly-fluoroalkyl substances (PFAS)	See Table C	All	Excluding substances classified as Level 1: Substances Currently Prohibited	00193
3-2	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	84852-53-9	All	—	00214
3-3	1,1'-[ethane-1,2-diylbisoxo]bis[2,4,6-tribromobenzene] (BTBPE)	37853-59-1	All	—	00184
3-4	Bis(2-ethylhexyl)tetrabromo-phthalate (TBPH)	26040-51-7	All	—	—
3-5	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA)	79-94-7	All	—	00185
3-6	4,4'-isopropylidenediphenol (bisphenol A, BPA)	80-05-7	All	Excluding substances classified as Level 1: Substances Currently Prohibited	00141
3-7	4,4'-(1-methylpropylidene)bisphenol (bisphenol B, BPB)	77-40-7	All	Excluding substances classified as Level 1: Substances Currently Prohibited	00177
3-8	4,4'-sulfonyldiphenol (bisphenol S, BPS)	80-09-1	All	Excluding substances classified as Level 1: Substances Currently Prohibited	00186
3-9	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (bisphenol AF, BPAF) and its salts	See Table C	All	Excluding substances classified as Level 1: Substances Currently Prohibited	00215
3-10	4,4'-methylenediphenol (bisphenol F, BPF)	620-92-8	All	Excluding substances classified as Level 1: Substances Currently Prohibited	—
3-11	Triphenyl phosphate	115-86-6	All	—	00206
3-12	Trixylyl phosphate	25155-23-1	All	—	00100
3-13	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	All	—	00056
3-14	N-(1,3-Dimethylbutyl)-N'-phenyl-1,4-phenylenediamine (6PPD)	793-24-8	All	—	—
3-15	Hexamethylcyclotrisiloxane (D3)	541-05-9	All	—	—
3-16	Octamethylcyclotetrasiloxane (D4)	556-67-2	All	—	00149
3-17	Decamethylcyclopentasiloxane (D5)	541-02-6	All	—	00150
3-18	Dodecamethylcyclohexasiloxane (D6)	540-97-6	All	—	00151

2.2.3 Level 3: Candidate Substances for Prohibition

No.	Substance (Group) Name	CAS No.	Scope of Application	Exemptions	IEC 62474 DSL's ID
3-19	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	All	—	00134
3-20	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	All	—	00135
3-21	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	All	—	00197
3-22	Bumetrizole (UV-326)	3896-11-5	All	—	00199
3-23	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one (Omnirad379)	119344-86-4	All	—	00198

2.2.4 Level 4: Controlled Substances

Controlled Substances are listed below. If any of the specified substances are contained in amounts exceeding the threshold, please submit information regarding such inclusion in accordance with the method described in Section 4.(3) of this standard.

No.	Substance (Group) Name	CAS No.	Scope of Application	Thresholds	IEC 62474 DSL's ID
4-1	Level 1: Substances Currently Prohibited	—	See Section 2.2.1	Present (*)	—
4-2	Level 2: Substances Prohibited as of a Specified Date	—	See Section 2.2.2	Present (*)	—
4-3	Level 3: Candidate Substances for Prohibition	—	See Section 2.2.3	Intentional inclusion	—
4-4	SVHC on the candidate list of EU REACH regulation	See ECHA Web site	All	0.1 mass% of article or mixture	—
4-5	Class I Specified Chemical Substances on Japanese Law Concerning the Examination and Regulation of the Manufacture etc. of Chemical Substances	See J-CHECK Web site	All	Inclusion as an impurity in mixtures	—
4-6	Beryllium Oxide	1304-56-9	All	0.1 mass% in production material delivered to Epson	00005
4-7	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	See Table C	Printed wiring board laminate	0.09 mass% total bromine content in laminate	00008
4-8	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	See Table C	Plastic materials except printed wiring board laminates	0.1 mass% of bromine in plastic materials	00009
4-9	Perchlorates	See Table C	All	0.0000006 mass% (6ppb) of battery or product part	00033
4-10	Radioactive substances	See Table C	All	intentional inclusion	00049
4-11	Chlorinated Flame Retardants (CFR)	See Table C	Plastic materials except printed wiring board laminates	0.1 mass% chlorine in plastic materials	00062
4-12	Chlorinated Flame Retardants (CFR)	See Table C	Printed Wiring Board (PWB) Laminates	0.09 mass% total chlorine content in laminate	00063
4-13	Di-isodecyl phthalate (DIDP)	68515-49-1, 26761-40-0	All	Intentional inclusion	00090
4-14	Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	All	Intentional inclusion	00107
4-15	Diisooctyl phthalate (DIOP)	27554-26-3	All	0.1 mass% of article or mixture	00203
4-16	Colecalciferol	67-97-0	All	0.1 mass% of article or mixture	00204

(*) For Level 1: Substances Currently Prohibited and Level 2: Substances Prohibited as of a Specified Date, regardless of whether they comply with the requirements and thresholds in Section 2.2.1 and 2.2.2, please provide information on their inclusion in accordance with the method described in Section 4.(3) of this standard.

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 $C_8F_{17}SO_3H$. Also known as perfluorooctane sulfonic acid.

*4 PFOS-related substances: Substance groups having $C_8F_{17}SO_2X$ [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: Substances Currently Prohibited 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. 1-15.)

*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://global.epson.com/supplier/pdf/green-purchasing/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 ≥ 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 C_nF_{2n+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_6F_{14}
- C_6F_{13} -C(=O)OH, C_6F_{13} -C(=O)O-X' or C_6F_{13} -CF₂-X' (where $X' =$ any group, including salts)
- any substance having a perfluoroalkyl group C_6F_{13} - 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

*25 PFHpS related compounds:

Any substance having a perfluoroheptanesulfonyl group and that has the potential to degrade to PFHpS.

*26 PFNS related compounds:

Any substance having a perfluorononanesulfonyl group and that has the potential to degrade to PFNS.

*27 PFDS related compounds:

Any substance having a perfluorodecanesulfonyl group and that has the potential to degrade to PFDS.

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)-1-naohtholato)(1-(5-chloro-2-oxidophenylazo)-2-naphtholato)chromate(1-); trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)chromate(1-)	Not allocated Component 1: CAS-No.:118685-33-9 $C_{39}H_{23}ClCrN_7O_{12}S_2Na$ Component 2: $C_{46}H_{30}CrN_{10}O_{20}S_2.3Na$

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	Substances included in “No. 1-69 PFOA-related compounds” in Level 1: Substances Currently Prohibited
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	
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-Pentacosafuoro-14-iodotetradecane	30046-31-2	
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-Pentacosafuorotetradecan-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-Nonacosafuorohexadecan-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-Nonacosafuoro-16-iodohexadecane	65510-55-6	
20	Silicic acid (H ₄ SiO ₄), 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
PFCs, SF6, HFCs	Non-refillable containers, windows, footwear, tires	—
	One-component foams	Except when required to meet safety standards
HFCs, PFCs	Non-confined direct evaporation systems	—
PFCs, HFC-23	Fire protection equipment	—
HFCs (with a GWP of 150 or more)	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.	—
	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 A: Battery Standards

Primary battery						
Battery type			Substances and their requirements and thresholds			Referenced regulations
			Cadmium and cadmium compounds	Lead and lead compounds	Mercury and mercury compounds	
1	Alkaline battery	Button cell	10 ppm by weight of the battery	40 ppm by weight of the battery	Intentional inclusion prohibited If present as an impurity, the substance shall not exceed any of the following thresholds: - 5 ppm in homogeneous material; - 1 ppm by weight of the battery; - 25 mg per button cell.	4, 19, 20, 22, 24, 29, 30, 33, 36, 37
		Non-button cell	10 ppm by weight of the battery	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, the substance shall not exceed any of the following thresholds: - 5 ppm in homogeneous material; - 1 ppm by weight of the battery; - 25 mg per button cell.	4, 19, 22, 23, 24, 30, 33, 36
5	Zinc-air battery	Button cell	20 ppm by weight of the battery	100 ppm by weight of the battery		
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 A: Battery Restrictions

Secondary battery						
Battery type			Substances and their requirements and thresholds			Referenced regulations
			Cadmium and cadmium compounds	Lead and lead compounds	Mercury and mercury compounds	
7	Ni-MH battery, Alkaline secondary 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
		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
8	Lead-acid battery	Use prohibited except for industrial/commercial batteries*				4, 36
		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

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

Table B: EU RoHS Directive Exemptions

Table B 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, 2026. 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.

Substances: Cadmium and Cadmium Compounds				
No.	Exemption ^{*1}	Product categories	Legal expiration date ^{*1}	Expiration date set by Epson
8(b)	Cadmium and its compounds in electrical contacts	Categories 1-7 and 10	7/21/2021	Already prohibited
		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	
8(b)-I	Cadmium and its compounds in electrical contacts used in: - circuit breakers, - thermal sensing controls, - thermal motor protectors (excluding hermetic thermal motor protectors), - AC switches rated at: - 6 A and more at 250 V AC and more, or - 12 A and more at 125 V AC and more, - DC switches rated at 20 A and more at 18 V DC and more, and - switches for use at voltage supply frequency $\geq$ 200 Hz.	Categories 1-7 and 10	To be decided	One year prior to the legal expiration date ^{*2}
13(b)	Cadmium in filter glasses and glasses used for reflectance standards	Categories 1-7 and 10	7/21/2021	Already prohibited
		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	
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	

Table B: EU RoHS Directive Exemptions

Substances: Lead and Lead Compounds				
No.	Exemption ^{*1}	Product categories	Legal expiration date ^{*1}	Expiration date set by Epson
6 (a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight	Categories 1-7 and 10	6/30/2019	Already prohibited
		Category 9 and 11	12/11/2026 ^{*5}	Already prohibited
6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight ^{*4}	All	To be decided	One year prior to the legal expiration date ^{*2}
6(a)-II	Lead as an alloying element in batch hot dip galvanised steel components containing up to 0.2% lead weight ^{*4}	All	To be decided	
6 (b)	Lead as an alloying element in aluminum containing up to 0.4% lead by weight ^{*4}	Categories 1-7 and 10	6/30/2019	Already prohibited
		Category 9 and 11	6/11/2027 ^{*5}	Already prohibited
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 ^{*4}	Categories 1-7 and 10	12/11/2026 ^{*5}	Already prohibited
		Category 9 and 11	6/30/2027 ^{*5}	Already prohibited
6 (b)-II	Lead as an alloying element in aluminum for machining purposes with a lead content up to 0.4 % by weight ^{*4}	Categories 1-7 and 10	6/11/2027 ^{*5}	Already prohibited
		Category 9 and 11	To be decided	One year prior to the legal expiration date [*]
6 (b)-III	Lead as an alloying element in aluminium casting alloys containing up to 0,3 % lead by weight provided it stems from lead-bearing aluminium scrap recycling ^{*4}	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}
6 (c)	Copper alloy containing up to 4% lead by weight ^{*4}	All	To be decided	One year prior to the legal expiration date ^{*2}

Table B: EU RoHS Directive Exemptions

Substances: Lead and Lead Compounds				
No.	Exemption ^{*1}	Product categories	Legal expiration date ^{*1}	Expiration date set by our group
7 (a)	Lead in high melting temperature type solders (i.e., lead-based alloys containing 85% by weight or more lead)	All ^{*3}	To be decided	One year prior to the legal expiration date ^{*2}
7 (a)-I	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) for internal interconnections for attaching die, or other components along with a die in semiconductor assembly with steady state or transient/impulse currents of 0,1 A or greater or blocking voltages beyond 10 V, or die edge sizes larger than 0,3 mm × 0,3 mm	All ^{*3}	To be decided	One year prior to the legal expiration date ^{*2}
7 (a)-II	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) for integral (meaning internal and external) connections of die attach in electrical and electronic components, if all the following conditions are met: – the thermal conductivity of the cured/sintered die-attach material is > 35 W/(m × K), – the electrical conductivity of the cured/sintered die-attach material is > 4,7 MS/m, – solidus melting temperature is higher than 260 °C			
7 (a)-III	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) in first level solder joints (internal or integral connections – meaning internal and external) for manufacturing components so that subsequent mounting of electronic components onto subassemblies (i.e. modules, sub-circuit boards, substrates, or point-to-point soldering) with a secondary solder does not reflow the first level solder. This sub-entry excludes die attach applications and hermetic sealings			
7 (a)-IV	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) in second level solder joints for the attachment of components to printed circuit board or lead frames: (1) in solder balls for the attachment of ceramic ball-grid- array (BGA); (2) in high temperature plastic overmouldings (> 220 °C)			
7 (a)-V	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) as a hermetic sealing material between: (1) a ceramic package or plug and a metal case; (2) component terminations and an internal sub-part			
7 (a)-VI	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) for establishing electrical connections between lamp components in incandescent reflector lamps for infrared heating, high intensity discharge lamps, or oven lamps			
7 (a)-VII	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) for audio transducers where the peak operating temperature exceeds 200 °C			

Table B: EU RoHS Directive Exemptions

Substances: Lead and Lead Compounds				
No.	Exemption ^{*1}	Product categories	Legal expiration date ^{*1}	Expiration date set by our group
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	All	To be decided	One year prior to the legal expiration date ^{*2}
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)	All	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	7/21/2021	Already prohibited
		Category 9 industrial monitoring and control instruments and category 11	7/21/2024	Already prohibited
7 (c)-V	Electrical and electronic components containing lead in a glass or glass matrix compound that fulfils any of the following functions: (1)for protection and electrical insulation in glass beads of high-voltage diodes and glass layers for wafers; (2)for hermetic sealing between ceramic, metal and/or glass parts; (3)for bonding purposes in a process parameter window for < 500 °C combined with a viscosity of 1 013,3 dPas ('glass-transition temperature'); (4)for use as a resistive material such as ink, with a resistivity range from 1 ohm/square to 100 megohm/square, excluding trimmer potentiometers; (5)for use in chemically modified glass surfaces for microchannel plates (MCPs), channel electron multipliers (CEMs) and resistive glass products (RGPs).	All	To be decided	One year prior to the legal expiration date ^{*2}
7 (c)-VI	Electrical and electronic components containing lead in a ceramic that fulfils any of the following functions: (1)for use in piezoelectric lead zirconium titanate (PZT) ceramics; (2)for providing ceramics with a positive temperature coefficient (PTC).	All	To be decided	One year prior to the legal expiration date ^{*2}

Table B: 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	One year prior to the legal expiration date ^{*2}
		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 mm ² or larger in any semiconductor technology node; — stacked die packages with die of 300 mm ² or larger, or silicon interposers of 300 mm ² or larger.	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 B: EU RoHS Directive Exemptions

Substance: Mercury and mercury compounds				
Epson prohibits the use of all exemptions for mercury and mercury compounds 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	All	To be decided	One year prior to the legal expiration date ^{*2}
4(f)-II	Mercury in high-pressure mercury vapor lamps used in projectors where an output ≥ 2000 lumen ANSI is required		To be decided	
4(f)-III	Mercury in high-pressure sodium vapor lamps used for horticulture lighting		To be decided	
4(f)-IV	Mercury in lamps emitting light in the ultraviolet spectrum		To be decided	

^{*1} 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."

^{*2} 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.

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.

^{*3} Except the case covered by exemption No.24.

^{*4} The exemption shall not cover EEE for supply to the general public where the EEE or accessible part thereof may, during normal or foreseeable conditions of use, be placed in the mouth by children. However, the exemption shall apply where the following can be both demonstrated:

- the rate of lead release from such an EEE or any accessible part, whether coated or uncoated, does not exceed 0,05 µg/cm²per hour (equivalent to 0,05 µg/g/h),
- for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a period of at least two years of normal or reasonably foreseeable conditions of use of the EEE. For the purpose of this footnote, it is considered that an EEE or accessible part of an EEE may be placed in the mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.

^{*5} It has been confirmed that the exemption will be abolished as of that date.

Table C: Examples of Substances & Substance Groups

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

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

Table C: Examples of Substances & Substance Groups

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

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

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-40	Polychlorinated naphthalene (Cl: 1 or more)	1,2,5,6-Tetrachloronaphthalene	67922-22-9
		1,2,5,7-Tetrachloronaphthalene	67922-23-0
		1,2,6,8-Tetrachloronaphthalene	67922-24-1
		1,2,3,4,5-Pentachloronaphthalene	67922-25-2
		1,2,3,4,6-Pentachloronaphthalene	67922-26-3
		1,2,3,4,5,7-Hexachloronaphthalene	67922-27-4
		1,2,4,5,6,8-Hexachloronaphthalene	90948-28-0
		1,2,4,5,7,8-Hexachloronaphthalene	103426-92-2
		1,2,3,4,5,8-Hexachloronaphthalene	103426-93-3
		1,2,3,5,7,8-Hexachloronaphthalene	103426-94-4
		1,2,3,5,6,8-Hexachloronaphthalene	103426-95-5
		1,2,3,4,6,7-Hexachloronaphthalene	103426-96-6
		1,2,3,5,6,7-Hexachloronaphthalene	103426-97-7
		1,2,3,6-Tetrachloronaphthalene	149864-78-8
		1,2,6,7-Tetrachloronaphthalene	149864-79-9
		1,2,5,8-Tetrachloronaphthalene	149864-80-2
		1,2,3,8-Tetrachloronaphthalene	149864-81-3
		1,2,7,8-Tetrachloronaphthalene	149864-82-4
		1,2,3,7,8-Pentachloronaphthalene	150205-21-3
		1,3,6,8-Tetrachloronaphthalene	150224-15-0
		1,2,3,6,7-Pentachloronaphthalene	150224-16-1
		1,2,4,6,7-Pentachloronaphthalene	150224-17-2
		1,2,3,5,6-Pentachloronaphthalene	150224-18-3
		1,2,4,5,7-Pentachloronaphthalene	150224-19-4
		1,2,4,5,6-Pentachloronaphthalene	150224-20-7
		1,2,4,7,8-Pentachloronaphthalene	150224-21-8
		1,2,4,6,8-Pentachloronaphthalene	150224-22-9
		1,2,3,6,8-Pentachloronaphthalene	150224-23-0
		1,2,3,5,8-Pentachloronaphthalene	150224-24-1
		1,2,4,5,8-Pentachloronaphthalene	150224-25-2
1-41	Asbestos	Asbestos	1332-21-4
		Actinolite	77536-66-4
		Amosite (Grunerite)	12172-73-5
		Anthophyllite	77536-67-5
		Chrysotile	12001-29-5
		Crocidolite	12001-28-4
		Tremolite	77536-68-6
1-42	Ozone-depleting substances	Trichlorofluoromethane (CFC-11)	75-69-4
		Dichlorodifluoromethane (CFC-12)	75-71-8
		Chlorotrifluoromethane (CFC-13)	75-72-9
		Pentachlorofluoroethane (CFC-111)	354-56-3
		1,1,2,2-Tetrachloro-1,2-difluoroethane (CFC-112)	76-12-0
		1,1,1,2-Tetrachloro-2,2-difluoroethane (CFC-112a)	76-11-9
		1,1,2-Trichloro-1,2,2 trifluoroethane (CFC-113)	76-13-1
		1,1,1-Trichloro-2,2,2 trifluoroethane (CFC-113a)	354-58-5
		Dichlorotetrafluoroethane (CFC-114)	76-14-2
		Monochloropentafluoroethane (CFC-115)	76-15-3

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-42	Ozone-depleting substances	1,1,1,2,2,3,3-Heptachloro-3-fluoropropane (CFC-211aa)	422-78-6
		Heptachlorofluoropropane (CFC-211)	135401-87-5
		1,1,1,2,2,3,3-Heptachloro-2-fluoropropane (CFC-211)	422-81-1
		Hexachlorodifluoropropane (CFC-212)	3182-26-1
		Pentachlorotrifluoropropane (CFC-213)	2354-06-5
		Pentachlorotrifluoropropane (CFC-213)	134237-31-3
		Tetrachlorotetrafluoropropane (CFC-214)	29255-31-0
		1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane (CFC-214cb)	2268-46-4
		1,2,2,3-Tetrachloro-1,1,3,3-tetrafluoropropane (CFC-214aa)	-
		1,2,2-Trichloropentafluoropropane (CFC-215aa)	1599-41-3
		1,2,3-Trichloropentafluoropropane (CFC-215ba)	76-17-5
		1,1,2-Trichloropentafluoropropane (CFC-215bb)	-
		1,1,3-Trichloropentafluoropropane (CFC-215ca)	-
		1,1,1-Trichloropentafluoropropane (CFC-215cb)	4259-43-2
		Dichlorohexafluoropropane (CFC-216)	661-97-2
		Chloroheptafluoropropane (CFC-217)	422-86-6
		Bromochloromethane (Halon-1011)	74-97-5
		Dibromodifluoromethane (Halon-1202)	75-61-6
		Bromochlorodifluoromethane (Halon-1211)	353-59-3
		Bromotrifluoromethane (Halon-1301)	75-63-8
		Dibromotetrafluoroethane (Halon-2402)	124-73-2
		Tetrachloromethane (carbon tetrachloride)	56-23-5
		1,1,1-Trichloroethane (methylchloroform)	71-55-6
		Bromomethane (methyl bromide)	74-83-9
		Bromoethane (ethyl bromide)	74-96-4
		Trifluoroiodomethane (trifluoromethyl iodide)	2314-97-8
		Chloromethane (methyl chloride)	74-87-3
		Dibromofluoromethane (HBFC-21 B2)	1868-53-7
		Bromodifluoromethane (HBFC-22 B1)	1511-62-2
		Bromofluoromethane (HBFC-31 B1)	373-52-4
		Tetrabromofluoroethane (HBFC-121 B4)	306-80-9
		Tribromodifluoroethane (HBFC-122 B3)	-
		Dibromotrifluoroethane (HBFC-123 B2)	354-04-1
		Bromotetrafluoroethane (HBFC-124 B1)	124-72-1
		Tribromofluoroethane (HBFC-131 B3)	-
		Dibromodifluoroethane (HBFC-132 B2)	75-82-1
		Bromotrifluoroethane (HBFC-133 B1)	421-06-7
		Dibromofluoroethane (HBFC-141 B2)	358-97-4
		Bromodifluoroethane (HBFC-142 B1)	420-47-3
		Bromofluoroethane (HBFC-151 B1)	762-49-2
		Hexabromofluoropropane (HBFC-221 B6)	-
		Pentabromodifluoropropane (HBFC-222 B5)	-
		Tetrabromotrifluoropropane (HBFC-223 B4)	-
		Tribromotetrafluoropropane (HBFC-224 B3)	-

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-42	Ozone-depleting substances	Dibromopentafluoropropane (HBFC-225 B2)	431-78-7
		Bromohexafluoropropane (HBFC-226 B1)	2252-78-0
		Pentabromofluoropropane (HBFC-231 B5)	-
		Tetrabromodifluoropropane (HBFC-232 B4)	-
		Tribromotrifluoropropane (HBFC-233 B3)	-
		Dibromotetrafluoropropane (HBFC-234 B2)	-
		Bromopentafluoropropane (HBFC-235 B1)	460-88-8
		Tetrabromofluoropropane (HBFC-241 B4)	-
		Tribromodifluoropropane (HBFC-242 B3)	70192-80-2
		Dibromotrifluoropropane (HBFC-243 B2)	431-21-0
		Bromotetrafluoropropane (HBFC-244 B1)	679-84-5
		Tribromofluoropropane (HBFC-251 B3)	75372-14-4
		Dibromodifluoropropane (HBFC-252 B2)	460-25-3
		Bromotrifluoropropane (HBFC-253 B1)	421-46-5
		Dibromofluoropropane (HBFC-261 B2)	51584-26-0
		Bromodifluoropropane (HBFC-262 B1)	-
		Bromofluoropropane (HBFC-271 B1)	1871-72-3
		Dichlorofluoromethane (HCFC-21)	75-43-4
		Chlorodifluoromethane (HCFC-22)	75-45-6
		Chlorofluoromethane (HCFC-31)	593-70-4
		Tetrachlorofluoroethane (HCFC-121)	134237-32-4
		Tetrachlorofluoroethane (HCFC-121)	354-14-3
		1,1,1,2-Tetrachloro-2-fluoroethane (HCFC-121a)	354-11-0
		Trichlorodifluoroethane (HCFC-122)	41834-16-6
		1,2,2-Trichloro-1,1-difluoroethane (HCFC-122)	354-21-2
		1,1,2-Trichloro-1,2-difluoroethane (HCFC-122a)	354-15-4
		1,1,1-Trichloro-2,2-difluoroethane (HCFC-122b)	354-12-1
		Dichlorotrifluoroethane (HCFC-123)	34077-87-7
		1,1-Dichloro-2,2,2-trifluoroethane (HCFC-123)	306-83-2
		1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)	354-23-4
		1,2-Dichloro-1,1,2-trifluoroethane	90454-18-5
		1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	812-04-4
		Chlorotetrafluoroethane (HCFC-124)	63938-10-3
		2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124)	2837-89-0
		1-chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	354-25-6
		Trichlorofluoroethane (HCFC-131)	27154-33-2
		1,1,2-Trichloro-2-fluoroethane (HCFC-131)	134237-34-6
		1,1,2-Trichloro-2-fluoroethane (HCFC-131)	359-28-4
		1,1,2-Trichloro-1-fluoroethane (HCFC131a)	811-95-0
		1,1,1-Trichloro-2-fluoroethane (HCFC-131b)	2366-36-1
		Dichlorodifluoroethane (HCFC-132)	25915-78-0
		1,2-Dichloro-1,2-difluoroethane (HCFC-132)	431-06-1
		1,1-Dichloro-2,2-difluoroethane (HCFC-132a)	471-43-2
		1,2-Dichloro-1,1-difluoroethane (HCFC-132b)	1649-08-7
		1,1-Dichloro-1,2-difluoroethane (HFCF-132c)	1842-05-3
		Chlorotrifluoroethane (HCFC-133)	1330-45-6
		1-Chloro-1,2,2-trifluoroethane (HCFC-133)	431-07-2
		2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	75-88-7

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-42	Ozone-depleting substances	1-Chloro-1,1,2-trifluoroethane (HCFC-133b)	421-04-5
		1,1-Dichloro-1-fluoroethane HCFC-141b	1717-00-6
		1,1-Dichloro-2-fluoroethane (HCFC-141)	25167-88-8
		1,2-Dichloro-1-fluoroethane (HCFC-141)	430-57-9
		1,1-Dichloro-2-fluoroethane (HCFC-141a)	430-53-5
		Chlorodifluoroethane (HCFC-142)	25497-29-4
		2-Chloro-1,1-Difluoroethane (HCFC-142)	338-65-8
		1-Chloro-1,1-difluoroethane (HCFC-142b)	75-68-3
		1-Chloro-1,2-difluoroethane (HCFC-142a)	338-64-7
		Chlorofluoroethane (HCFC-151)	110587-14-9
		1-Chloro-2-fluoroethane (HCFC-151)	762-50-5
		1-Chloro-1-fluoroethane (HCFC-151a)	1615-75-4
		Hexachlorofluoropropane (HCFC-221)	134237-35-7
		Hexachlorofluoropropane (HCFC-221)	29470-94-8
		1,1,1,2,2,3-Hexachloro-3-fluoropropane (HCFC-221)	422-26-4
		Pentachlorodifluoropropane (HCFC-222)	134237-36-8
		1,1,1,3,3-pentachloro-2,2-difluoropropane (HCFC-222)	422-49-1
		1,2,2,3,3-pentachloro-1,1-difluoropropane (HCFC-222aa)	422-30-0
		1,1,3,3-Tetrachloro-1,2,2-trifluoropropane (HCFC-223)	134237-37-9
		1,1,3,3-Tetrachloro-1,2,2-trifluoropropane (HCFC-223)	422-52-6
		1,1,1,3-Tetrachloro-2,2,3-trifluoropropane (HCFC-223cb)	422-50-4
		1,3,3-Trichloro-1,1,2,2-tetrafluoropropane (HCFC-224ca)	134237-38-0
		1,3,3-Trichloro-1,1,2,2-tetrafluoropropane (HCFC-224ca)	422-54-8
		1,1,3-Trichloro-1,2,2,3-tetrafluoropropane (HCFC-224cb)	422-53-7
		1,1,1-Trichloro-2,2,3,3-tetrafluoropropane (HCFC-224cc)	422-51-5
		Dichloropentafluoropropane (HCFC-225)	127564-92-5
		2,2-Dichloro-1,1,1,3,3-pentafluoropropane (HCFC-225aa)	128903-21-9
		2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC-225ba)	422-48-0
		1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225bb)	422-44-6
		3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	422-56-0
		1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	507-55-1
		1,1-Dichloro-1,2,2,3,3-pentafluoropropane (HCFC-225cc)	13474-88-9
		1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC-225da)	431-86-7
		1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225ea)	136013-79-1
		1,1-Dichloro-1,2,3,3,3-pentafluoropropane (HCFC-225eb)	111512-56-2
		2-Chloro-1,1,1,3,3,3-hexafluoro-propane (HCFC-226da)	134308-72-8
		2-Chloro-1,1,1,3,3,3-hexafluoro-propane (HCFC-226da)	431-87-8
		Pentachlorofluoropropane (HCFC-231)	134190-48-0
		1,1,1,2,3-pentachloro-2-fluoro-propane (HCFC-231bb)	421-94-3
		Tetrachlorodifluoropropane (HCFC-232)	134237-39-1
		1,1,1,3-Tetrachloro-3,3-difluoropropane (HCFC-232)	460-89-9
		Trichlorotrifluoropropane (HCFC-233)	134237-40-4
		1,1,1-Trichloro-3,3,3-trifluoropropane (HCFC-233ab)	7125-83-9
		Dichlorotetrafluoropropane (HCFC-234)	127564-83-4
		1,2-Dichloro-1,2,3,3-tetrafluoropropane (HCFC-234ba)	425-94-5
		Chloropentafluoropropane (HCFC-235)	134237-41-5
		1-Chloro-1,1,3,3,3-pentafluoropropane (HCFC-235fa)	460-92-4
		Tetrachlorofluoropropane (HCFC-241)	134190-49-1

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-42	Ozone-depleting substances	1,1,2,3-Tetrachloro-1-fluoropropane (HCFC-241db)	666-27-3
		Trichlorodifluoropropane (HCFC-242)	134237-42-6
		1,3,3,Trichloro-1,1-difluoropropane (HCFC-242fa)	460-63-9
		Dichlorotrifluoropropane (HCFC-243)	134237-43-7
		1,1-Dichloro-1,2,2-trifluoropropane (HCFC-243cc)	7125-99-7
		2,3-Dichloro-1,1,1-trifluoropropane (HCFC-243db)	338-75-0
		3,3-Dichloro-1,1,1-trifluoropropane (HCFC-243fa)	460-69-5
		Chlorotetrafluoropropane (HCFC-244)	134190-50-4
		3-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244ca)	679-85-6
		1-Chloro-1,1,2,2-tetrafluoropropane(HCFC-244cc)	421-75-0
		Trichlorofluoropropane (HCFC-251)	134190-51-5
		1,1,3-Trichloro-1-fluoropropane (HCFC-251fb)	818-99-5
		1,1,2-Trichloro-1-fluoropropane (HCFC-251dc)	421-41-0
		Dichlorodifluoropropane (HCFC-252)	134190-52-6
		1,3-Dichloro-1,1-difluoropropane (HCFC-252fc)	819-00-1
		Chlorotrifluoropropane (HCFC-253)	134237-44-8
		3-Chloro-1,1,1-trifluoropropane (HCFC-253fb)	460-35-5
		Dichlorofluoropropane (HCFC-261)	134237-45-9
		1,1-Dichloro-1-fluoropropane (HCFC-261fc)	7799-56-6
		1,2-Dichloro-2-fluoro-propane (HCFC-261ba)	420-97-3
		Chlorodifluoropropane (HCFC-262)	134190-53-7
		1-Chloro-2,2-difluoropropane (HCFC-262ca)	420-99-5
		2-Chloro-1,3-difluoropropane (HCFC-262da)	102738-79-4
		1-Chloro-1,1-difluoropropane (HCFC-262fc)	421-02-3
		Chlorofluoropropane (HCFC-271)	134190-54-8
		2-Chloro-2-fluoropropane (HCFC-271ba)	420-44-0
		1-Chloro-1-fluoropropane (HCFC-271fb)	430-55-7
1-44	Alkanes, C10-13, chloro (Short chain chlorinated paraffins)	Alkanes, C10-13, chloro	85535-84-8
		Alkanes, C10-12, chloro	108171-26-2
		Alkanes, C12-13, chloro	71011-12-6
		Alkanes, chloro	61788-76-9
		Other Short Chain Chlorinated Paraffins	-
1-45	Perfluorooctane sulfonates (PFOS) and its salt	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hepta-decafluoro	1763-23-1
		1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hepta-decafluoro-,potassium salt	2795-39-3
		1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hepta-decafluoro-, ammonium salt	29081-56-9
1-46	PFOS-related compounds	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)-sulfonyl]amino]ethyl acrylate and vinylidene chloride	306975-62-2
		Glycine, N-ethyl-N-[(hepta-decafluorooctyl)sulfonyl]-, potassium salt	2991-51-7

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-47	Nickel and nickel compounds	Nickel	7440-02-0
		Nickel (II) oxide	1313-99-1
		Nickel (II) chloride	7718-54-9
		Nickel (II) chloride, hexahydrate	7791-20-0
		Nickel(II) sulfate	7786-81-4
		Nickel(II) sulfate, hexahydrate	10101-97-0
		Nickel(II) sulfate, heptahydrate	10101-98-1
		Antimony nickel titanium oxide yellow	8007-18-9
		Nickel niobium titanium yellow rutile	68611-43-8
		Cobalt titanate green spinel	68186-85-6
1-49	Cadmium and cadmium compounds	Cadmium	7440-43-9
		Cadmium oxide	1306-19-0
		Cadmium sulfide	1306-23-6
1-50	Hexavalent chromium compounds	Barium chromate	10294-40-3
		Calcium chromate	13765-19-0
		Strontium chromate	7789-06-2
		Zinc chromate	13530-65-9
1-51	Lead and lead compounds	Lead	7439-92-1
		Lead (II) sulfate	7446-14-2
		Lead (II) carbonate	598-63-0
		Trilead bis(carbonate) dihydroxide	1319-46-6
		Lead (II) acetate, trihydrate	6080-56-4
		Lead selenide	12069-00-0
		Lead (IV) oxide	1309-60-0
		Lead (II,IV) oxide	1314-41-6
		Lead (II) sulfide	1314-87-0
		Lead (II) phosphate	7446-27-7
		Lead (II) titanate	12060-00-3
		Lead sulfate, sulphuric acid, lead salt	15739-80-7
		Lead sulphate, tribasic	12202-17-4
		Lead stearate	1072-35-1
		Lead (II) chromate	7758-97-6
		Lead chromate molybdate sulphate red	12656-85-8
		Lead sulfochromate yellow	1344-37-2
1-54	Mercury and mercury compounds	Mercury	7439-97-6
		Mercuric, chloro(cyclohexylmethyl)-	33631-63-9
		Mercury (II) chloride	7487-94-7
		Mercuric sulfate	7783-35-9
		Mercuric nitrate	10045-94-0
		Mercuric (II) oxide	21908-53-2
		Mercuric sulfide	1344-48-5
1-58	Tri-substituted organostannic compounds	Triphenyltin-N, N-dimethyldithiocarbamate	1803-12-9
		Triphenyltinfluoride	379-52-2
		Triphenyltinacetate	900-95-8
		Triphenyltinchloride	639-58-7
		Triphenyltinhydroxide	76-87-9

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-58	Tri-substituted organostannic compounds	Triphenyltin fattyacid((9-11) salt)	18380-71-7 18380-72-8 47672-31-1 94850-90-5
		Triphenyltinchloroacetate	7094-94-2
		Tributyltinmethacrylate	2155-70-6
		Bis(tributyltin)fumalate	6454-35-9
		Tributyltinfluoride	1983-10-4
		Bis(tributyltin)2,3-dibromosuccinate	31732-71-5
		Tributyltinacetate	56-36-0
		Tributyltinlaurate	3090-36-6
		Bis(tributyltin)phthalate	4782-29-0
		Copolymer of alkyl(c=8) acrylate,methyl methacrylate and tributyltin methacrylate	67772-01-4
		Tributyltinsulfamate	6517-25-5
		Bis(tributyltin)maleate	14275-57-1
		Tributyltinchloride	1461-22-9 7342-38-3
		Tributyltin cyclopentane carbonate=mixture	85409-17-2
		Tributyltin-1, 2,3,4,4a, 4b, 5,6,10,10a-decahydro-7-isopropyl-1, 4a-dimethyl-1-phenanthrenecarboxylatemix	26239-64-5
		Other tri-substituted organostannic compounds	-
1-59	Diocetyl tin (DOT) compounds	Diocetyl Tin Oxide	870-08-6
		Diocetyl tin dilaurate	3648-18-8
		Other Diocetyl tin compounds	-
1-60	Dibutyltin (DBT) compounds	Dibutyltin oxide	818-08-6
		Dibutyltin diacetate	1067-33-0
		Dibutyltin dilaurate	77-58-7
		Dibutyltin maleate	78-04-6
		Other dibutyltin compounds	-
1-67	Bisphenols	4,4-isopropylidenediphenol (Bisphenol A)	80-05-7
		4,4'-sulphonyldiphenol (Bisphenol S)	80-09-1
		4,4'-(1-methylpropylidene)bisphenol (Bisphenol B)	77-40-7
		2,2'-methylenediphenol (Bisphenol F)	2467-02-9
		4,4'-methylenediphenol (Bisphenol F)	620-92-8
		4,4'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene] bisphenol (Bisphenol AF)	1478-61-1
		2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol (Tetrabromobisphenol A;TBBPA)	79-94-7
		4,4'-sulphonylbis[2,6-dibromophenol] (Tetrabromobisphenol S; TBBPS)	39635-79-5
		4,4'-isobutylethylidenediphenol	6807-17-6
		4,4'-Methylenebis(2,6-dimethylphenol)	5384-21-4
1-68	Perfluorooctanoic acid (PFOA) and its salts	Pentadecafluorooctanoic acid	335-67-1
		Ammonium pentadecafluorooctanoate	3825-26-1
		Sodium pentadecafluorooctanoate	335-95-5
		Potassium pentadecafluorooctanoate	2395-00-8
		Silver pentadecafluorooctanoate	335-93-3

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-69	Perfluorooctanoic acid (PFOA) related compounds	Pentadecafluorooctanoic acid	335-67-1
		Ammonium pentadecafluorooctanoate	3825-26-1
		Sodium pentadecafluorooctanoate	335-95-5
		Potassium pentadecafluorooctanoate	2395-00-8
		Silver pentadecafluorooctanoate	335-93-3
		Pentadecafluorooctanoyl fluoride	335-66-0
		Methyl pentadecafluorooctanoate	376-27-2
		Ethyl pentadecafluorooctanoate	3108-24-5
		Perfluorooctyl iodide	507-63-1
		Tetrahydroperfluoro-1-decanol	678-39-7
		Perfluoro-1-dodecanol	865-86-1
		Perfluorodecyl iodide	2043-53-0
		1,1,2,2-Tetrahydroperfluorododecyl iodide	2043-54-1
		Perfluorodecylethyl acrylate	17741-60-5
		1,1,2,2-Tetrahydroperfluorodecyl acrylate	27905-45-9
		1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-Pentacosafuoro-14-iodotetradecane	30046-31-2
		3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-Pentacosafuorotetradecan-1-ol	39239-77-5
		3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-Nonacosafuoroheptadecan-1-ol	60699-51-6
		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-Nonacosafuoro-16-iodohexadecane	65510-55-6
1-73	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Trifluoromethane (HFC-23)	75-46-7
		Difluoromethane (HFC-32)	75-10-5
		Methyl fluoride (HFC-41)	593-53-3
		Pentafluoroethane (HFC-125)	354-33-6
		1,1,2,2-Tetrafluoroethane (HFC-134)	359-35-3
		1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2
		1,1,2-Trifluoroethane (HFC-143)	430-66-0
		1,1,1-Trifluoroethane (HFC-143a)	420-46-2
		1,2-difluoroethane (HFC-152)	624-72-6
		1,1-Difluoroethane (HFC-152a)	75-37-6
		Fluoroethane (HFC-161)	353-36-6
		2H-Heptafluoropropane (HFC-227ea)	431-89-0
		1,1,1,2,2,3-Hexafluoro-propane (HFC-236cb)	677-56-5
		1,1,1,2,3,3-Hexafluoropropane (HFC-236ea)	431-63-0
		1,1,1,3,3,3-Hexafluoropropane (HFC-236fa)	690-39-1
		1,1,2,2,3-Pentafluoropropane (HFC-245ca)	679-86-7
		1,1,1,3,3-Pentafluoropropane (HFC-245fa)	460-73-1
		1,1,1,3,3-Pentafluorobutane (HFC-365mfc)	406-58-6
		2H,3H-Decafluoropentane (HFC-43-10mcc)	138495-42-8
		Tetrafluoromethane (Carbon tetrafluoride, (PFC-14))	75-73-0
		Hexafluoroethane (PFC-116)	76-16-4

Table C: Examples of Substances & Substance Groups

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No.	Substance Group	Substance Name	CAS No.
1-73	Fluorinated greenhouse gases (PFCs, SF ₆ , HFCs)	Octafluoropropane (PFC-218)	76-19-7
		Decafluorobutane (PFC-3-1-10)	355-25-9
		Dodecafluoropentane (PFC-4-1-12)	678-26-2
		Tetradecafluorohexane (PFC-5-1-14)	355-42-0
		Octafluorocyclobutane (PFC-c-318)	115-25-3
		Sulfur Hexafluoride (SF ₆)	2551-62-4
1-74	Perfluorohexane sulfonic acid (PFHxS) and its salts	Perfluorohexane-1-sulphonic acid	355-46-4
		Ammonium perfluorohexane-1-sulphonate	68259-08-5
		Potassium perfluorohexane-1-sulphonate	3871-99-6
1-75	Perfluorohexane sulfonic acid (PFHxS) related compounds	Perfluorohexane sulfonyl fluoride	423-50-7
		Perfluorohexane sulfonamide	41997-13-1
1-76	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C ₉ -C ₁₄ PFCAs) and their salts	Perfluorononan-1-oic acid	375-95-1
		Nonadecafluorodecanoic acid	335-76-2
		Henicosfluoroundecanoic acid	2058-94-8
		Tricosfluorododecanoic acid	307-55-1
		Pentacosfluorotridecanoic acid	72629-94-8
		Heptacosfluorotetradecanoic acid	376-06-7
		Ammonium salt of perfluorononan-1-oic-acid	4149-60-4
		Sodium salt of perfluorononan-1-oic-acid	21049-39-8
		Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3
		Ammonium nonadecafluorodecanoate	3108-42-7
1-77	C ₉ -C ₁₄ 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-pentacosfluoro-12-iodo-	307-60-8
		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-henicosfluorododecyl ester	2144-54-9
		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
1-82	Long-chain perfluorocarboxylic acids (C ₉ -C ₂₁ PFCAs) and their salts	Perfluorononan-1-oic acid	375-95-1
		Nonadecafluorodecanoic acid	335-76-2
		Henicosfluoroundecanoic acid	2058-94-8
		Tricosfluorododecanoic acid	307-55-1
		Pentacosfluorotridecanoic acid	72629-94-8
		Heptacosfluorotetradecanoic acid	376-06-7
		Perfluoropentadecanoic acid	141074-63-7
		Perfluorohexadecanoic acid	67905-19-5
		Perfluoroheptadecanoic acid	57475-95-3
		Perfluorooctadecanoic acid	16517-11-6
		Perfluorononadecanoic acid	133921-38-7
		Perfluoroeicosanoic acid	68310-12-3
		Ammonium salt of perfluorononan-1-oic-acid	4149-60-4
		Sodium salt of perfluorononan-1-oic-acid	21049-39-8
		Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3
		Ammonium nonadecafluorodecanoate	3108-42-7

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-83	C9-C21 PFCA related compounds	2-(Perfluorodecyl)ethyl acrylate	17741-60-5
		2-(Perfluorodecyl)ethanol	865-86-1
		2-(Perfluorododecyl)ethanol	39239-77-5
		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- pentacosafuoro-12-iodo-	307-60-8
		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-heneicosafuorododecyl ester	2144-54-9
		Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafuoro-11-(trifluoromethyl)-	15811-52-6
1-84	Perfluorohexanoic acid (PFHxA), its salts	Undecafluorohexanoic acid	307-24-4
		Ammonium undecafluorohexanoate	21615-47-4
		Sodium undecafluorohexanoate	2923-26-4
1-85	PFHxA related substances	Chlorodimethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane	102488-47-1
		4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl methacrylate	1228350-17-1
		Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4bis(trifluoromethyl)heptyl]silane	130676-81-2
		1-(Perfluorohexyl)octane	133331-77-8
		4,4,5,5,6,6,7,7,7-Octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl methacrylate	16083-79-7
		tris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane	175354-32-2
		Tris[4-(tridecafluorohexyl)phenyl]phosphine	193197-68-1
		3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl methacrylate	2144-53-8
		3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooct-1-ene	25291-17-2
		Methyl Perfluoroamyl Ketone	2708-07-8
		2H,2H,3H,3H-Perfluorononanoic acid	27854-30-4
		Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)tin oxide	324063-66-3
		4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide	34451-26-8
		1H,1H-Undecafluorohexylamine	355-34-0
		4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol	356055-76-0
		2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol	375-82-6
		(2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptyl)oxirane	38565-52-5
		Methyl Undecafluorohexanoate	424-18-0
		(7E)-7H,8H-Hexacosafuorotetradec-7-ene	51249-67-3
		Perfluoroheptanoyl chloride	52447-22-0
		N-[4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyloxycarbonyloxy] succinimide	556050-48-7
		1-Octanol, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, 1(dihydrogen phosphate)	57678-01-0
		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

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-85	PFHxA related substances	6:2 fluorotelomer unsaturated aldehyde	69534-12-9
		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
		N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide	80475-32-7
		1-(Perfluorohexyl)docosane	825651-73-8
		4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl azide	852527-60-7
		3-perfluorohexyl-2-hydroxypropyl methacrylate	86994-47-0
		4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide	89889-20-3
		N-Succinimidyl 4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononanoate	932710-51-5
		2-Iodo-1-(perfluorohex-1-yl)octane	109574-84-7
1-86, 3-1	Per- and poly-fluoroalkyl substances (PFAS)	Pentadecafluorooctanoic acid	335-67-1
		Perfluorooctylethyldimethylchlorosilane	74612-30-9
		Bis(perfluorooctyl)phosphinic acid	40143-79-1
		Perfluorooctanoic anhydride	33496-48-9
		1-bromohenicosafluorodecane	307-43-7
		Pentacosafuorotridecanoic acid	72629-94-8
		Tricosafuorododecanoic acid	307-55-1
		Henicosafuoroundecanoic acid	2058-94-8
		Perfluorononan-1-oic acid	375-95-1
		Heptacosafuorotetradecanoic acid	376-06-7
		Nonadecafluorodecanoic acid	335-76-2
		Pentadecanoic acid, nonacosafuoro-	141074-63-7
		Hexadecanoic acid, hentriacontafluoro-	67905-19-5
		Perfluoroheptadecanoic acid	57475-95-3
		Octadecanoic acid, pentatriacontafluoro-	16517-11-6
		Perfluorononadecanoic acid	133921-38-7
		Eicosanoic acid, nonatriacontafluoro-	68310-12-3
		Hexafluoroethane	76-16-4
		Octafluoropropane	76-19-7
		Octafluorocyclobutane	115-25-3
		Perfluoropolyalkyl Ether	60164-51-4
		Fluoroelastomers	64706-30-5
		Polytetrafluoroethylene	9002-84-0
		Vinylidene fluoride-hexafluoropropylene polymer	9011-17-0
		Polyvinylidene fluoride	24937-79-9
		Perfluoroethylene propylene copolymer	25067-11-2
		2-(Perfluorohexyl)ethane-1-sulfonic acid	27619-97-2
		Heptafluorobutyric acid	375-22-4
		Perfluorohexane	355-42-0
		Chlorotrifluoroethylene polymer	9002-83-9

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-86, 3-1	Per- and poly-fluoroalkyl substances (PFAS)	Poly(ethylene-alt-chlorotrifluoroethylene)	25101-45-5
		Fluoroethylene-alkyl vinyl ether	146915-43-7
		Perfluoroindane	374-80-1
		Perfluorodecalin	306-94-5
		Perfluoroperhydrofluorene	307-08-4
		Perfluorotetradecahydrophenanthrene	306-91-2
		Perfluoroperhydrofluoranthene	662-28-2
		Perfluoroperhydrobenzyltetralin	116265-66-8
		Ethyl perfluoroisoalkyl ether	297730-93-9
		Methyl perfluoroisoalkyl ether	22052-84-2
		Ethyl perfluoroisobutyl ether	163702-06-5
1-88	Medium-chain chlorinated paraffins (MCCP)	Alkanes, C14-17, chloro	85535-85-9
		Alkanes, C14-16, chloro	1372804-76-6
1-89	Halogenated Flame Retardants	Perchloronaphthalene	2234-13-1
		Chloronaphthalene	25586-43-0
		Tris(1-chloro-2-propyl)phosphate	13674-84-5
		Tris(1,3-dichloro-2-propyl)phosphate	13674-87-8
		TBBA-epichlorhydrin oligomer	40039-93-8
		TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	71342-77-3
		3,5,3',5'-Tetrabromo-bisphenol A (TBBPA)	79-94-7
		Decabromo-diphenyl-ethane	84852-53-9
		Brominated Bisphenol-A type epoxy resin	68928-70-1
		Benzene, ethenyl-, homopolymer, brominated	88497-56-7
		Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate	29420-49-3
		1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonyl fluoride	375-72-4
		1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid	375-73-5
1-90	Perfluoroheptane sulfonic acid (PFHpS) and its salts	Perfluoroheptanesulfonic acid	375-92-8
		1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, lithium salt (1:1)	117806-54-9
		1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, sodium salt	21934-50-9
		Tetraethylammonium perfluoroheptane sulfonate	439863-97-5
		1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, potassium salt	60270-55-5
		1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, ammonium salt	68259-07-4
		Sodium perfluoroheptanesulfinate	68555-66-8
		1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compound with 2,2'-iminobis[ethanol] (1:1)	70225-15-9
		triethylammonium perfluoroheptane sulfonate	72033-40-0

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
1-91	PFHpS related compounds*25	Perfluoroheptane-1-sulfinic acid	769067-51-8
		Perfluoroheptane sulfonamido acetic acid	1003194-00-0
		Bis(perfluoroheptanesulfonyl)imide	1040629-78-4
		n-(perfluoroheptylsulfonyl)-n-propylglycine potassium	123085-30-3
		Perfluoroheptane sulfonic anhydride	140429-92-1
		Perfluoroheptane sulfonamidoethanol	167398-54-1
		Lithium bis(perfluoroheptanesulfonyl)imide	1702283-75-7
		Perfluoroheptane sulfonamido amine oxide	178094-74-1
		[N-Methyl(perfluoroheptane-1-sulfonyl)amino]acetic acid	1910057-77-0
		perfluoroheptane sulfonamido (ethanol) betaine ethanol	2089109-02-2
1-92	Perfluorononane sulfonic acid (PFNS) and its salts	Perfluorononanesulfonic acid	68259-12-1
		Perfluorononanesulfonate potassium	29359-39-5
		1-Nonanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-nonadecafluoro-, ammonium salt	17202-41-4
		1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,8,8,8-hexadecafluoro-7-(trifluoromethyl)-	71500-44-2
		Sodium Perfluorononanesulfonate	98789-57-2
1-93	Perfluorodecane sulfonic acid (PFDS) and its salts	Perfluorodecanesulfonic acid	335-77-3
		sodium perfluorodecanesulfonate	2806-15-7
		Potassium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heneicosafuoro-1-decanesulfonate (1:1)	2806-16-8
		1-Decanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heneicosafuoro-, ammonium salt	67906-42-7
1-94	PFNS related compounds and PFDS related compounds	Perfluorononane sulfonamido acetic acid	1003194-01-1
		perfluorononane sulfonamide	1818833-95-2
		3-[[[(perfluorononyl)sulfonyl]amino]-n,n,n-trimethyl-1-propanaminium bromide	329354-03-2
		1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-Nonadecafluoro-1-nonanesulfonyl fluoride	68259-06-3
		N-Trimethylammoniopropyl perfluorononane sulfonamide	736879-74-6
		N-hydroxyethyl dimethylammoniopropyl perfluorodecanesulfonamide	142519-26-4
		Perfluorodecanesulfonamide	4262-70-8
		perfluorodecane sulfonic anhydride	51667-62-0
		n-ethyl-n-[2-(phosphonooxy)ethyl]perfluorodecanesulfonamide	61481-05-8
3-9	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (bisphenol AF, BPAF) and its salts	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol	1478-61-1
		benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)	75768-65-9
		Phosphonium, tributyl(2-methoxypropyl)-, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)	126049-00-1
		benzyl(diethylamino)diphenylphosphonium 4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate	577705-90-9

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
3-9	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (bisphenol AF, BPAF) and its salts	Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyl(diethylamino)diphenylphosphonium 4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate (1:1)	-
		Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (1:1)	-
		disodium 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenolate	-
		Reaction products of benzene, chlorine and sulfur chloride (S ₂ Cl ₂) with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol	921213-47-0
		N,N-dibutyl-N-methylbutan-1-aminium 4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate	-
4-7, 4-8	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	-
		Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	-
		Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]	-
		Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls] in combination with antimony compounds]	-
		Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]	-
		Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organic phosphorus compounds]	-
		Poly(2,6-dibromo-phenylene oxide)	69882-11-7
		Tetra-decabromo-diphenoxy-benzene	58965-66-5
		1,2-Bis(2,4,6-tribromo-phenoxy) ethane	37853-59-1
		3,5,3',5'-Tetrabromo-bisphenol A (TBBPA)	79-94-7

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
4-7, 4-8	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	TBBA, unspecified	30496-13-0
		TBBA-epichlorhydrin oligomer	40039-93-8
		TBBA-TBBA-diglycidyl-ether oligomer	70682-74-5
		TBBA carbonate oligomer	28906-13-0
		TBBA carbonate oligomer, phenoxy end capped	94334-64-2
		TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	71342-77-3
		TBBA-bisphenol A-phosgene polymer	32844-27-2
		Brominated epoxy resin end-capped with tribromophenol	139638-58-7
		Brominated epoxy resin end-capped with tribromophenol	135229-48-0
		TBBA-(2,3-dibromo-propyl-ether)	21850-44-2
		TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2
		TBBA-bis-(allyl-ether)	25327-89-3
		TBBA-dimethyl-ether	37853-61-5
		Tetrabromo-bisphenol S	39635-79-5
		TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1
		2,4-Dibromo-phenol	615-58-7
		2,4,6-tribromo-phenol	118-79-6
		Pentabromo-phenol	608-71-9
		2,4,6-Tribromo-phenyl-allyl-ether	3278-89-5
		Tribromo-phenyl-allyl-ether, unspecified	26762-91-4
		Bis(methyl)tetrabromo-phthalate	55481-60-2
		Bis(2-ethylhexyl)tetrabromo-phthalate	26040-51-7
		2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	20566-35-2
		TBPA, glycol-and propylene-oxide esters	75790-69-1
		N,N'-Ethylene -bis-(tetrabromo-phthalimide)	32588-76-4
		Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)	52907-07-0
		2,3-Dibromo-2-butene-1,4-diol	3234-02-4
		Dibromo-neopentyl-glycol	3296-90-0
		Dibromo-propanol	96-13-9
		Tribromo-neopentyl-alcohol	36483-57-5
		Poly tribromo-styrene	57137-10-7
		Tribromo-styrene	61368-34-1
		Dibromo-styrene grafted PP	171091-06-8
		Poly-dibromo-styrene	31780-26-4
		Bromo-/Chloro-paraffins	68955-41-9
		Bromo-/Chloro-alpha-olefin	82600-56-4
		Vinylbromide	593-60-2
		Tris-(2,3-dibromo-propyl)-isocyanurate	52434-90-9
		Tris(2,4-Dibromo-phenyl) phosphate	49690-63-3
		Tris(tribromo-neopentyl) phosphate	19186-97-1
		Chlorinated and brominated phosphate ester	125997-20-8
		Pentabromo-toluene	87-83-2

Table C: Examples of Substances & Substance Groups

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

No.	Substance Group	Substance Name	CAS No.
4-7, 4-8	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	Pentabromo-benzyl bromide	38521-51-6
		1,3-Butadiene homopolymer, brominated	68441-46-3
		Pentabromo-benzyl-acrylate, monomer	59447-55-1
		Pentabromo-benzyl-acrylate, polymer	59447-57-3
		Decabromo-diphenyl-ethane	84852-53-9
		Tribromo-bisphenyl-maleinimide	59789-51-4
		Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)	155613-93-7
		Tetrabromo-cyclo-octane	31454-48-5
		1,2-Dibromo-4-(1,2 dibromo-ethyl)-cyclo-hexane	3322-93-8
		Tetrabromophthalic acid Na salt	25357-79-3
4-9	Perchlorates	Lithium Perchlorate	7791-03-9
		Ammonium perchlorate	7790-98-9
		Barium perchlorate	13465-95-7
		Lead perchlorate	13637-76-8
		Magnesium Perchlorate	10034-81-8
		Perchloric acid, cobalt (2+) salt	13455-31-7
		Perchloric acid, mercury(2+) salt	7616-83-3
		Perchloric acid, nickel(2+) salt, hexahydrate	13520-61-1
		Nickel perchlorate	13637-71-3
		Potassium Perchlorate	7778-74-7
		Sodium Perchlorate	7601-89-0
		Thallium(3+) perchlorate	15596-83-5
4-10	Radioactive substances	Uranium-238	7440-61-1
		Radon	10043-92-2
		Americium-241	14596-10-2
		Thorium-232	7440-29-1
		Cesium-137	10045-97-3
		Strontium-90	10098-97-2
4-11, 4-12	Chlorinated Flame Retardants (CFR)	Tetrakis(2-chloroethyl)dichloroisopentylidiphosphate	38051-10-4
		Tris(1-chloro-2-propyl)phosphate	13674-84-5
		Tris(2,3-dichloro-1-propyl)phosphate	66108-37-0
		Tris(1,3-dichloro-2-propyl)phosphate	13674-87-8

Table D: Regulations Referenced

No.	Name of Regulation, Legislation, etc.	Country or Region
1	Montreal Protocol	Treaty
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	(EU) 2024/590 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. 2024/573 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 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
23	National Standard of the People's Republic of China, GB24427-2021, Content Limitation 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 D: 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/2025-270 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 articles: PFAS	California
41	Stockholm convention	Treaty
42	Safer Products Restrictions and Reporting	Washington
43	Industrial Chemicals Environmental Management Standard (IChEMS)	Australia

Table E: Analysis Standards

Substance	Analysis Standard
Cadmium and cadmium compounds	Analytical method in accordance with IEC 62321 <u>Polymers / Metals / Electronics</u> - 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 compounds	Analytical method in accordance with IEC 62321 <u>Polymers / Metals / Electronics</u> - 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 <u>Polymers / Metals / Electronics</u> - 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 compounds	Analytical method in accordance with IEC 62321 <u>Polymers / Metals / Electronics</u> - 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) Dibutyl phthalate (DBP) Benzyl butyl phthalate (BBP) Diisobutyl phthalate (DIBP)	Analytical method in accordance with IEC 62321 <u>Polymers / Electronics</u> - GC-MS (gas chromatography-mass spectrometry) * Analysis should be performed by the above analytical method*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.

*1 Use the method of analysis, testing, or measurement specified by the Epson Group, if any.

2.3 Substances Prohibited from Use in Manufacturing Processes

Substances Prohibited from Use in Manufacturing Processes are listed below. The use of these substances in the manufacturing process of production materials destined for Epson is prohibited. The referenced regulations are not comprehensive.

The referenced regulations are not comprehensive.			
No.	Substance (Group) Name	CAS No.	Referenced Regulations
1	White phosphorous match (white phosphorous)	12185-10-3	Substances prohibited by the Industrial Safety and Health Law (Japan) (Article 55 and Enforcement Order 16)
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 C, No. 1-41	
5	4-nitrodiphenyl and its salts	92-93-3	
6	Bis (chloromethyl) ether	542-88-1	
7	2-Naphthylamine / beta-naphthylamine and its salts	91-59-8	
8	Rubber cement containing benzene, where the benzene accounts for more than 5% of the rubber cement solvent (including diluting agent)	-	
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	Montreal Protocol Montreal Protocol Annex A, B, E and C-I, II, III
11	Carbon tetrachloride	56-23-5	
12	Methyl bromide / Bromomethane	74-83-9	
13	CFC	See Table C, No. 1-42	
14	Halon		
15	HBFCs		
16	Bromochloromethane	74-97-5	
17	HCFC*1	See Table C, No. 1-42	
18	Aldrin	309-00-2	POPs Convention, Annex A (Elimination)
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	
27	Hexabromobiphenyl	36355-01-8	
28	Hexabromocyclododecane (HBCDD)	See Table C	
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 C	
38	Polychlorinated naphthalenes (with 2–8 chlorine atoms)	See Table C	

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 C	POPs Convention, Annex A (Elimination)
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 C	
46	Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds	See Table C	
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 C	POPs Convention, Annex B (Restriction)
50	Medium-chain chlorinated paraffins (MCCP)	See Table C	
51	DDT	50-29-3	
52	Perfluorooctane sulfonates (PFOS) and its salts	See Table C	
55	Perfluoro-1-octanesulfonyl fluoride (PFOS-F)	307-35-7	

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.

*1 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 to be eliminated from products> - Added dibutyltin (DBT) compounds to level 2 substances <i>(Continued on the next page...)</i>

Rev.	Date of Revision	Revised Content
3.5	May 21, 2010	- Added exempted application for cadmium and cadmium compounds, mercury and mercury compounds, lead and lead compounds - Limit the scope of Phthalate to DEHP, DBP, BBP - Deleted conditions of prohibitions already controlled in accordance with those of conditionally banned substances (e.g., batteries, packaging materials) - Updated Appendix 3 List of Epson Group Companies *1 dioctyltin (DOT)/ tributyltin (TBT)/ triphenyltin (TPT) / other Tri-substituted organostannic compounds
3.6	July 1, 2011	Appendix 1: Substance Handling Standards < Unconditionally banned substances > - Added two substances to the “Group subject to the Law Concerning the Examination and Regulation of Manufacture etc. of Chemical Substances (Japan)” < Conditionally banned substances > - Revised the conditions for prohibitions on cadmium and cadmium compounds, mercury and mercury compounds, lead and lead compounds - Added "Treatment of Substances Regulated by REACH Regulation No. 1907 / 2006" <Substances to be eliminated from products> - Revised exempted applications for cadmium and cadmium compounds, mercury and mercury compounds, lead and lead compounds - Added diisobutyl phthalate (DIBP) and hexabromocyclododecane (HBCDD) to level 2 substances to be eliminated from products
3.7	August 1, 2012	Deleted “PREFACE”, “QUALITY PHILOSOPHY” Appendix 1: Substance Handling Standards < Conditionally banned substances > - Deleted one of the exemptions from Formaldehyde. - Revised conditions for mercury and mercury compounds. - Revised conditions for Tri-substituted organostannic compounds and Dioctyltin (DOT) compounds - Added (Di(2-ethylhexyl) phthalate(DEHP), Dibutyl phthalate(DBP), Benzyl butyl phthalate(BBP), Diisobutyl phthalate(DIBP), Dibutyltin (DBT) compounds, Hexabromocyclododecane (HBCDD) * moved from level 2 substances to be eliminated from products - Added “until December 31, 2014” to the exemption of Dioctyltin (DOT) compounds - Added URL of European Chemical Agency’s website to “Treatment of Substances Regulated by REACH Regulation No. 1907/2006” - Revised the organization names. - Added “for information on production materials used for products to which EU RoHS Directive (2011/65/EU) applies” to Note A. <Substances to be eliminated from products> - Deleted “(e.g. Projector lamp) from Hg-4 of Mercury And Mercury Compounds. - Regarding exempted application of Lead and Lead Compounds “Pb-7”, added “7(c)-IV” to the No. of application exempted from amended RoHS Directive and added “Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors” to the comment. - Deleted (Di(2-ethylhexyl) phthalate(DEHP), Dibutyl phthalate(DBP), Benzyl butyl phthalate(BBP), Diisobutyl phthalate(DIBP), Dibutyltin (DBT) compounds, Hexabromocyclododecane (HBCDD) from level 2 substances to be eliminated from products. * moved to conditionally banned substances. - Added Perfluorooctanoic acid (PFOA) and its salt, Musk xylene, 4,4’- Diaminodiphenylmethane (MDA), Diarsenic pentaoxide, Diarsenic trioxide, 2,4 - Dinitrotoluene (2,4-DNT), Tris(2-chloroethyl)phosphate (TCEP) to level2 Substances to be eliminated from products. - Updated Appendix 3 List of Epson Group Companies

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	- Updated Appendix 3 List of Epson Group Companies - 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”
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, Hexabromocyclododecane (HBCDD) - Polychlorinated naphthalene: (Cl: 3 or more) => (Cl: 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 jewelry to Lead and its compounds - Added a condition for azodyes to azo compounds - Moved HBCDD to unconditionally banned substances - Moved musk xylene, MDA, diarsenic pentaoxide, diarsenic trioxide, 2,4-DNT, TCEP from level2 Substances to be eliminated 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 list 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. Exempted applications and effective dates of the prohibition may change, depending on the results of reviews of applications exempted from the RoHS Directive. - Analytical standards: Added the following explanation. * Use the method of analysis, testing, or measurement specified by Epson, if any. - Moved musk xylene, MDA, diarsenic pentaoxide, diarsenic trioxide, 2,4-DNT, TCEP to Conditionally banned substances - Hexavalent Chromium and Its Compounds => Hexavalent Chromium Compounds - Added the following condition to level 2 of Hexavalent Chromium Compounds. - Hexavalent Chromium Compounds must not be present in leather articles and articles containing leather parts that come into contact with the skin in concentrations equal to or greater than 3 ppm of the total dry weight of the leather or leather part

(Continued on the next page...)

Ver.	Date of Revision	Revised Content
3.8	July 1, 2014	- 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” - 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 - Lead and Lead Compounds: Revised the comment of Pb-7 - Lead and Lead Compounds: Added *See Pb-4 for high melting temperature type solders to the comment of Pb-14 - Added PAH, Trichloroethylene to level 2 <Substances Banned From Use In Manufacturing Processes> - Added Montreal Protocol Annex III and Bromochloromethane Appendix 2 - Deleted Appendix 2 “System Check Sheet for Assurance Against Chemical Substance Inclusion in Products” - Added Appendix 2 “Conditionally banned substances for battery” Appendix 3 - Updated Appendix 3 “List of Epson Group Companies”
3.9	July 1, 2015	< Conditionally banned substances > - 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 - Dibutyltin (DBT) compounds: Deleted “Adhesives are exempt until December 31, 2014.” - Moved Trichloroethylene from level 2 Substances to be eliminated from products - Added Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-Trimethylpentene (BNST), and Polyvinyl chloride (PVC) <Substances to be eliminated from products> - Lead and Lead Compounds: Revised effective date of the prohibition for Pb-2 and Pb-3 from July 21, 2015 to April 21, 2016 - Added Arsenic acid, technical MDA, Diglyme, EDC to level 2 Appendix 2 “Conditionally banned substances for battery” - Mercury and its compounds: Revised threshold for button cell battery from 20,000ppm to 5ppm - Updated Appendix 3 “List of Epson Group Companies”
4	July 1, 2016	<Unconditionally banned substances> 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” <Conditionally banned substances> - Changed the ban conditions for chlorinated paraffin to "Prohibited in amounts exceeding 1000 ppm per delivery configuration." - Added red phosphorus - Moved "Perfluorooctanoic acid (PFOS) and its salt" and "PAH" from "Substances to Be Eliminated From Products (Level 2) <Substances to Be Eliminated From Products> - 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. - 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. <i>(Continued on the next page...)</i>

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	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 2.1-4 Regulations Referenced 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 93120-92130.12, title 17, California Code of Regulations => Composite wood products below that do not meet the requirements of sections 93120-92130.12, title 17, California Code of Regulations and TSCA Title VI No. 49 Lead and lead compounds: - Cord and cable jackets/sheathing that contain 300 ppm lead or lead compounds must be labeled => Thermoset and thermoplastic-sheathed electrical wires, cables and cords: Prohibited in surface coating material in concentrations exceeding 300 ppm, unless the amount has been reported and approved by Epson. <i>(Continued on the next page...)</i>

Ver.	Date of Revision	Revised Content
5	July 1, 2018	- 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. - 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. => 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. - 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. => Intentional inclusion prohibited in packaging materials, except in packaging materials for industrial products. - Based on the latest legal requirements, revised Table 2.1-1 Battery Restrictions 2.2 Substances Banned from Use in Manufacturing Processes - Revised names of the following substances: No.4 Amosite, Crocidolite (blue asbestos) => Asbestos - 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 => 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 - Added HCFC - Deleted Appendix 3, List of Epson Group Companies
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_substances.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 <i>(Continued on the next page...)</i>

Ver.	Date of Revision	Revised Content
6	October 1, 2019	Table 2.1-1 Battery Restrictions - Deleted exemption for batteries designed exclusively for industrial or commercial use (except for lead-acid batteries) Table 2.1-2 EU RoHS Directive Exemptions - Updated based on the latest EU RoHS information Table 2.1-3 Examples of Banned Substances & Substance Groups - Updated based on the latest IEC62474 information Table 2.1-5 Analysis Standards - Updated based on the latest information
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 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 authorization) - 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” 2.1 Substances Banned in Products Level 2 banned substances - Deleted 14 substances Notes/Comments on substances - Added *3 and *11 - Revised the definition of PFOA-related substances in *10 based on the latest information on laws and regulations Table 2.1-1 Battery Restrictions - Revised the threshold for cadmium and cadmium compounds in button cell alkaline batteries <i>(Continued on the next page...)</i>

Ver.	Date of Revision	Revised Content
7	June 1, 2021	Table 2.1-2 EU RoHS Directive Exemptions - Added a table for cadmium and cadmium compounds exemptions Table 2.1-3 Examples of Banned Substances & Substance Groups - Updated based on the latest IEC62474 information - Added 12 substances to the substances that are known to be PFOA-related substances Table 2.1-4 Regulations Referenced - Revised number of the law in No. 6 based on the latest regulation - Revised the names of the regulation in No. 34 - Added the following laws and regulations: - EU Regulation No. 517/2014 on Fluorinated Greenhouse Gases - No. 26 TSCA Significant New Use Rule - No. 31 U.S. regulations on hazardous substances in packaging materials - Deleted the following laws and regulations: - EU REACH Regulation (EC) No 1907/2006, Annex XIV (Substances subject to authorization) 2.2 Substances banned from use in manufacturing processes - Revised names of the following substances: - No. 1 White phosphorous -> White phosphorous match (white phosphorous) - Added the following substances: - 31 substances from No. 18 to No. 48
8	June 1, 2022	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 Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances => Perfluorooctanoic 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 Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances => Perfluorooctanoic 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. ● 4. Epson’s Expectations of Suppliers: (3) Report information about substances in products. - “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.” - “Compliance assessment information is mandatory. Please provide composition information to the extent possible.” ⇒ “Both compliance assessment information and composition information will be needed.” - Added website title: “Information about Product Substances (Epson Standard Survey))” - Changed the URL of Epson’s website Appendix 1: Substance Handling Standards ● 1. Definitions ⇒ 1. Explanation of Terms - The explanations and order of the following terms were changed: (1) substances prohibited in products, (2) substances prohibited from use in manufacturing processes, (3) substance, (4) present/included, (5) intentional inclusion, (6) impurity, (7) threshold, (8) concentration, (9) homogeneous material - The following terms were added: (12) Scope of Application (item in the table of substances prohibited in products) (13) Requirements and Thresholds (item in the table of substances prohibited in products) (14) Exemptions (item in the table of substances prohibited in products) (15) Referenced Regulations (item in the table of substances prohibited in products) - The following terms were deleted: - controlled substances, presence banned, intentional inclusion prohibited ● 2. Substance Group Handling Standards - “Handling standards have been established pursuant to applicable laws and regulations.” ⇒ Deleted - “Please ensure compliance with specified conditions relating to banned substances (e.g., thresholds, parts where substances are present, uses).” ⇒ “Please ensure compliance with the specified criteria (requirements and thresholds, etc.) for the substances.” ● 2.1 Substances Prohibited in Products - Added information about the items for Level 1 prohibited substances and Level 2 prohibited substances ● 2.1 Substances Banned in Products - Changed the layout and column titles of the tables for Level 1 prohibited 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 - Column title: “Effective date of the ban” ⇒ “Effective Date” - 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. <i>(Continued on the next page...)</i>

Ver.	Date of Revision	Revised Content
9	September 1, 2023	● Level 1 prohibited substances - Changed the criteria for the following substances, based on the latest regulations: - No. 45 Formaldehyde - No. 56 Dioctyltin (DOT) compounds - No. 69 C9-C14 PFCAs, their salts, and C9-C14 PFCA-related substances - The following substances were given their own entries as substances in conjunction with changes in the table layout. - No. 49 Lead carbonate - No. 50 Lead sulfate - No. 53 Azodyes contained in the list of azodyes - Added the following substances, newly: - No. 70 MOAH comprising of 1 to 7 aromatic rings - No. 71 Per- and poly-fluoroalkyl substances (PFAS) - Deleted “White phosphorous match (white phosphorous)” from the list. ● Level 2 prohibited substances - Changed the criteria for the following substances, based on the latest regulations: - No. 1 C9-C14 PFCAs, their salts, and C9-C14 PFCA-related substances - Added the following substances, newly: - No. 2 MOAH comprising of 1 to 7 aromatic rings - No. 3 MOAH comprising of 3 to 7 aromatic rings - No. 4 MOSH with 16 to 35 carbon atoms - No. 5 Per- and poly-fluoroalkyl substances (PFAS) ● Notes/Comments on substances - Changed the explanation in note 5, based on the latest regulations. - Added the explanation of PFAS as note 14, newly. - A list of some aromatic amines was added as Table 1. - The number of the table containing the list of azodyes was changed from 1 to 2. ● Table 2.1-1 Battery Restrictions - Changed the column titles in the table Restricted substances and thresholds (as a % of battery weight) ⇒ Substances prohibited in products, requirements, and thresholds - Changed the threshold for lead and lead compounds for the batteries No. 2, 4, 5, 6, 7, 9 - Commercial/industrial battery: A battery designed exclusively for industrial or commercial use. ⇒ Commercial/industrial battery: A battery weighing 5 kg or more and designed exclusively for industrial or commercial use. ● Table 2.1-3 Examples of Prohibited Substances & Substance Groups - Deleted “Azocolourants and azodyes which form certain aromatic amines” - Added 44 substances as examples of PFAS. ● Table 2.1-4 Regulations Referenced - Revised the name & number of the laws in No. 4 based on the latest legislation. - Added the following new laws and regulations: - No. 38 Formaldehyde Emissions from Composite Wood Products Regulations SOR/2021-148 - No. 39 Law on the fight against waste and the circular economy - No. 40 The Health and Safety Code, relating to public health: AB1817 Product safety: textile articles: PFAS ● 2.2 Substances Prohibited from Use in Manufacturing Processes - Added No. 46 “PFHxS, its salts and PFHxS-related compounds” - Revised the number of the substance in No. 47, 48 and 49 - Corrected the Referenced Regulations of No. 47 DDT to “POPs Convention, Annex B (Restriction)”

Ver.	Date of Revision	Revised Content
10	September 1, 2024	STANDARDS ● 4. Epson's Expectations of Suppliers: (3) Report information about substances in products. - Added the following sentence: "Epson asks suppliers to submit the information for production materials delivered to Epson, as identified through the supply chain." - Reorganized the contents and divided into <Format of submission > and < Information about SVHC on the candidate list of EU REACH regulation> 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 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 - Revised the number of the substance in No.49, 50 and 51.

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11	September 1, 2025	STANDARDS ●4. Epson's Expectations of Suppliers (3) Report information about substances in products. <Information about SVHC on the candidate list of EU REACH regulation> - "0.1% w/w in articles" => "0.1% w/w in articles or mixtures" - Added the URL of ECHA as a reference source for the relevant substances. <Information about Class I Specified Chemical Substances on Japanese Law 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 - Modified the scope of application and exemptions for No.40 PCNs ($Cl \geq 1$) - Modified the scope of application and exemptions for No.44 SCCP - 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 - No.68 PFOA and its salts, No.69 PFOA-related compounds - No.74 PFHxS and its salts, No.75 PFHxS-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 <i>(Continued on the next page...)</i>

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11	September 1, 2025	● Notes/Comments on substances - Added the note “A type of PFOS-related compound” to *2 - Revised the wording of annotation *7 - Updated the content of annotations *3, *4, *11, *12, and *18 based on the latest legal regulations - Newly added annotations *19, *20, *22, *23, and *24 - Deleted the note for Decabromodiphenyl ether as it has been added to the Level 1 prohibited substances ● Table 2.1-2 EU RoHS Directive Exemptions - Revised the wording of the explanatory text related to Table 2.1-2 - “Expiration” => “Expiration date set by Epson” - “Expired” => “Already prohibited” - Added “Product categories” as a column in the table - Specified the legal expiration date and Expiration date set by Epson for each product category - Removed annotations related to product categories - Changed the legal deadline to “To be decided” for items with pending exemption extension applications - Deleted the following exemptions not used by Epson: 5(b), 7(b), 7(c)-III, 24, 29 ● Table 2.1-3 Examples of Prohibited Substances & Substance Groups - Added 3 example substances for “PFOS and its salts” - Added 1 example substance for “Bisphenols” - Added 3 example substances for “PFHxA and its salts” - Added 32 example substances for “PFHxA-related substances” - Added 2 example substances for “Medium-chain chlorinated paraffins (MCCPs)” - Added 13 example substances for “Halogenated flame retardants” ● Table 2.1-4 Regulations Referenced - Updated the name and number of the law for item No.7 based on the latest legal regulations ● 2.2 Substances Prohibited from Use in Manufacturing Processes - Newly added the following chemical substances: - No.49 C9-C21 PFCAs and their salts, and C9-C21 PFCA-related compounds - No.50 Medium-chain chlorinated paraffins (MCCP)
12	September 1, 2026	STANDARDS ●2. Scope Added states that packaging materials which Epson will disposed of are not included. ●4. Epson’s Expectations of Suppliers (3) Report information about substances in products. - Added states “<Subject> The submission subjects are the Level:4 Controlled Substances specified in Appendix 1.” - Change the URLs for website; Information about Product Substances (Epson Standard Survey) and Surveys and Submissions (Operations Division Surveys). ●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.” =>“Epson will present the revised version of this standard to you at least 60 days before the effective date each time it is updated.” -“If you do not agree to the revised content, please contact Epson by the effective date of the revised version.” =>“If you do not agree to the revised content, please contact Epson at least 30 days before the effective date of the revised version.” -“If Epson does not notify you at least 30 days before the effective date” =>“ If Epson does not notify you at least 60 days before the effective date.” <i>(Continued on the next page...)</i>

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12	September 1, 2026	●8. Requests Regarding the Assurance System for Substances in Products - 8.2.4 Manufacturing process (1) Incoming checks - “Check physical goods by using the proper analytical measurement methods.” => “Check physical goods by using the proper analytical measurement methods, as needed.” - 8.2.5 Change control - “Provide and follow clear procedures for 4M changes.” => “Provide and follow clear procedures for 4M changes in your company.” - “Verify that the 4M change will not lead to problems” => “Verify that the 4M change will not lead to nonconforming.” - Added “Even if it is unavoidable that you will have to wait until after the fact, please notify your point of contact at Epson.” Appendix 1: Substance Handling Standards ●1. Explanation of Terms - Deleted the terms “substance prohibited in products” and “substance prohibited from use in manufacturing processes” - “item in the table of substances prohibited in products” => “item in the Standards of Substances in Products” ●2. Substance Group Handling Standards - Added “2.1 Control Categories for Substances” and these descriptions. - Modified the name “Level 1 prohibited substances” => “Level 1: Substances Currently Prohibited” - Modified the name “Level 2 prohibited substances” => “Level 2: Substances Prohibited as of a Specified Date” - Added “Level 3: Candidate Substances for Prohibition” - Added “Level 4: Controlled Substances” ●2.2 Standards of Substances in Products - Modified the section name as “Substances Prohibited in Products” => “Standards of Substances in Products” - Modified the number designation for substances to “1-***” etc., according to the level of the control categories. - Modified the table number as “Table 2.1-1” => “Table A” - Modified the table number as “Table 2.1-2” => “Table B” - Modified the table number as “Table 2.1-3” => “Table C” - Modified the table number as “Table 2.1-4” => “Table D” - Modified the table number as “Table 2.1-5” => “Table E” ●Level 1: Substances Currently Prohibited - Modified the referenced regulations of No.1-7 PCBs and specific substitutes - Modified the exemption of No.1-30 HBCDD - Modified the scope of application of No.1-52 Lead carbonate, No.1-53 Lead sulfate - Modified the substance (group) name and deleted the exemption of No.1-62 (“PVC” => “PVC, PVDC”) - Added the exemption of No.1-71 PIP(3:1) - Added the exemption of No.1-81 Dechlorane Plus - Modified the substance (group) name and the requirements and threshold, and added the exemption of No.1-82 (“Long-chain perfluorocarboxylic acids(C9-C21 PFCAs) and their salts” => “Long-chain perfluorocarboxylic acids(C9-C21 PFCAs) , their salts and C9-C21 PFCA related compounds”) - Added No.1-83 C9-C21 PFCA related compounds - Modified the requirements and threshold for textile of No.1-86 PFAS - Added the exemption of No.1-87 UV-328 - Modified the exemption of No.1-88 MCCP ●Level 1: Substances Currently Prohibited - Newly added the following substances: - No.90 PFHpS and its salts - No.91 PFHpS related compounds - No.92 PFNS and its salts - No.93 PFDS and its salts - No.94 PFNS related compounds and PFDS related compounds <i>(Continued on the next page...)</i>

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12	September 1, 2026	●Level 2: Substances Prohibited as of a Specified Date - Added No.2-2 PIP(3:1) with the addition of the exemption for No. 1-71 - Deleted PFAS with the update of the requirements and thresholds for No.1-86 due to the arrival of the effective date - Deleted MCCP with the update of exemption for No.1-88 ●Level 3: Candidate Substances for Prohibition - Newly added the following chemical substances: - No.3-1 PFAS - No.3-2 DBDPE - No.3-3 BTBPE - No.3-4 TBPH - No.3-5 TBBPA - No.3-6 bisphenol A - No.3-7 bisphenol B - No.3-8 bisphenol S - No.3-9 bisphenol AF and its salts - No.3-10 bisphenol F - No.3-11 Triphenyl phosphate - No.3-12 Trixylyl phosphate - No.3-13 TCEP - No.3-14 6PPD - No.3-15 D3 - No.3-16 D4 - No.3-17 D5 - No.3-18 D6 - No.3-19 UV-327 - No.3-20 UV-350 - No.3-21 UV-329 - No.3-22 UV-326 - No.3-23 Omnirad379 ●Level 4: Controlled Substances - Newly added the following chemical substances: - No.4-1 Level 1: Substances Currently Prohibited - No.4-2 Level 2: Substances Prohibited as of a Specified Date - No.4-3 Level 3: Candidate Substances for Prohibition - No.4-4 SVHC on the candidate list of EU REACH regulation - No.4-5 Class I Specified Chemical Substances on Japanese Law Concerning the Examination and Regulation of the Manufacture etc. of Chemical Substances - No.4-6 Beryllium Oxide - No.4-7 Brominated flame retardants (other than PBBs, PBDEs, or HBCDD) - No.4-8 Brominated flame retardants (other than PBBs, PBDEs, or HBCDD) - No.4-9 Perchlorates - No.4-10 Radioactive substances - No.4-11 Chlorinated Flame Retardants (CFR) - No.4-12 Chlorinated Flame Retardants (CFR) - No.4-13 Diisodecyl phthalate (DIDP) - No.4-14 Diisononyl phthalate (DINP) - No.4-15 Diisooctyl phthalate (DIOP) - No.4-16 Colecalciferol ● Notes/Comments on substances - Modified the URL for description materials about red phosphorus of *9 - Newly added annotations *25, *26 and *27 ●Table A:Battery Standards - Modified the table name as “Battery Restrictions” => “Battery Standards” - Modified the item name of table as “Substances prohibited in products, requirements, and thresholds” => “Substances and their requirements and thresholds” <i>(Continued on the next page...)</i>

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12	September 1, 2026	●Table A: Battery Standards - Modified the requirements and thresholds and the referenced regulations for Mercury and mercury compounds of No.1 Alkaline battery Button cell, No.4 Silver-oxide battery and No.5 Zinc-air battery. ●Table B: EU RoHS Directive Exemptions - 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” => “Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight” - Added the following exemptions; 6(a)-II, 6(b)-III, 7(a)-I - VII, 7(c)-V, 7(c)-VI - Modified the product categories and expiration date of the following exemptions; 6(a), 6(a)-I, 6(b), 6(b)-I, 6(b)-II, 6(c), 7(a), 7(c)-I, 7(c)-II - Modified the expiration date of the following exemptions; 7(c)-IV, 4(f)-II, 4(f)-III, 4(f)-IV - Added the note *4 and *5 ●Table C: Examples of Substances & Substance Groups - Modified the table name as “Examples of Prohibited Substances & Substance Groups” => “Examples of Substances & Substance Groups” - Added 9 example substances for PFHpS and its salts - Added 10 example substances for PFHpS related compounds - Added 5 example substances for PFNS and its salts - Added 4 example substances for PFDS and its salts - Added 9 example substances for PFNS related compounds and PFDS related compounds - Added 9 example substances for bisphenol AF and its salts - Added 62 example substances for Brominated flame retardants (other than PBBs, PBDEs, or HBCDD) - Added 12 example substances for Perchlorates - Added 6 example substances for Radioactive substances - Added 4 example substances for Chlorinated Flame Retardants (CFR) ●Table D: Regulations Referenced -Modified the regulation number of No.5, 8 and 34 depends on latest regulations -Added the following regulations; -No.43 Industrial Chemicals Environmental Management Standard

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