

Investigation Manual for  
Regulated Chemical Substances

Version 5.0, Jun. 2024

OMRON Corporation

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## 1. Introduction

OMRON Group (hereinafter referred to as “OMRON”) established its Environmental Management Vision in 2002 to maintain global environment. In order to "continuously offer ‘environmentally assured products’<sup>\*1</sup> to customers despite the global tightening of laws and regulations such as RoHS Directive and REACH Regulation, we continue to perform the investigation of chemical substances contained in parts and materials (hereinafter referred to as “Parts and Materials Investigation”).

OMRON is investigating with chemSHERPA<sup>\*3</sup>, an information transmission scheme conforming to IEC 62474<sup>\*2</sup> which is the international standard of the electrical and electronic industry, to facilitate the transmission of information in the supply chain. We ask our suppliers to understand our intention on the management of chemical substances and for their continuous support in this aspect.

- \*1. Environmentally assured products: This term refers to products whose component parts and materials meet “OMRON’s requirements for the management of chemical substances in parts and materials” stipulated in Section 5.1 of this Manual.
- \*2. IEC 62474: This is the international standard (standard name: Material Declaration for Products of and for the electrical and electronics industry) that came into force in March 2012 and stipulates the following two points.
  - (1) Various requirements (basic and optional requirements) required for material declaration (transmission of information on composition and contained substances) circulated between companies in the supply chain.
  - (2) Criteria for selecting subject chemical substances and method for exchanging data.
- \*3. chemSHERPA: This is the scheme for transferring information on chemical substances contained in products in the supply chain developed by the Ministry of Economy, Trade and Industry of Japan

## 2. Purpose of This Manual

OMRON’s Investigation Manual for Regulated Chemical Substances (hereinafter referred to as “this Manual”) clarify the following contents.

- Requirements of Parts and Materials Investigation
- Procedure for handling Parts and Materials Investigation

This Manual defines the common requirements and handling procedure for OMRON. However, investigations may also be carried out for contents different from this Manual depending on OMRON’s business requirements in other industries.

## 3. Scope of Parts and Materials for Investigation

This standard applies to the products, parts, materials, packaging materials<sup>\*1</sup> which constitutes OMRON products.

Generally, OMRON will instruct suppliers on which products supplied to OMRON are to be investigated, and investigation will be carried out in units of products or parts purchased by OMRON in principle.

OMRON products are defined as follows.

- Products designed, manufactured and sold by OMRON
- Products sold under the brand name of OMRON
- Products designed and manufactured by OMRON that are outsourced from third parties

\*1. Packaging materials: All types of packaging materials used to protect, handle and deliver parts and materials used in the suppliers' products as well as all types of packaging materials used to protect, handle and deliver suppliers' products to OMRON.

Example: Cardboards, cushioning materials, bags, twist ties, adhesive tapes, desiccants, magazine stick, labels attached to them, etc.

Packaging materials that are specified in product specifications and become parts of the product are included as subjects to Parts and Materials Investigation.

However, the packing materials that are used for the purpose of transfer of products from your company to Omron are exempted from the subject of materials investigation.

In addition, transfer of products to Omron is a part of your company's processes. As required in our OMRON Green Procurement Standards, please implement appropriate process management (including management of transfer contamination of phthalate esters, etc.).

#### 4. Overview of Parts and Materials Investigation

The flow of parts and materials investigation is described in (1) to (5) below. (Refer to Figure 1)

- (1) OMRON specifies subject products for investigation and requests you (primary suppliers) to conduct the investigation.
- (2) You request your own suppliers (secondary suppliers) to conduct the same investigation.
- (3) Your suppliers (secondary suppliers) provide you with their answers to the investigation you requested.
- (4) Based on the results of the investigation on parts and materials, your company shall provide the data on chemical substances contained in the products of your company (as a chemSHERPA-AI file in principle, <sup>\*1</sup> chemSHERPA-CI<sup>\*2</sup> is also acceptable for chemical products and mixtures), as well as a Certificate of Non-inclusion for Regulated Substances <sup>\*3</sup> or a Declaration of Phase-out of Regulated Substance <sup>\*4</sup> to Omron.
- (5) OMRON provides "environmentally assured products" to customers.

As long as OMRON's requirements (Section 5.1) are met in the investigations conducted in (2) and (3) above, OMRON shall not dictate as to which investigation method your company (primary supplier) and your supplier (OMRON's secondary supplier) use.

\*1 chemSHERPA-AI file: Electronic data that contains information on subject products for investigation and their chemical substances investigated using the chemSHERPA-AI entry support tool (a tool to assist the preparation of article information in chemSHERPA).

\*2 chemSHERPA-CI file: Electronic data that contains information on subject products for investigation and their chemical substances investigated using the chemSHERPA-CI entry support tool (a tool to assist the preparation of chemical information in chemSHERPA).

\*3. Certificate of Non-inclusion for Regulated Substances: A document that certifies that parts and materials delivered to Omron as of the date of issuance do not contain any substances/applications whose use is banned (A rank) or substances/applications whose use is to be phase-out (A1 rank).

\*4. Declaration of Phase-out of Regulated Substances: A document to promise the total elimination of phase-out substances/applications (A1 rank) specified by OMRON, if they are still contained in parts or materials.

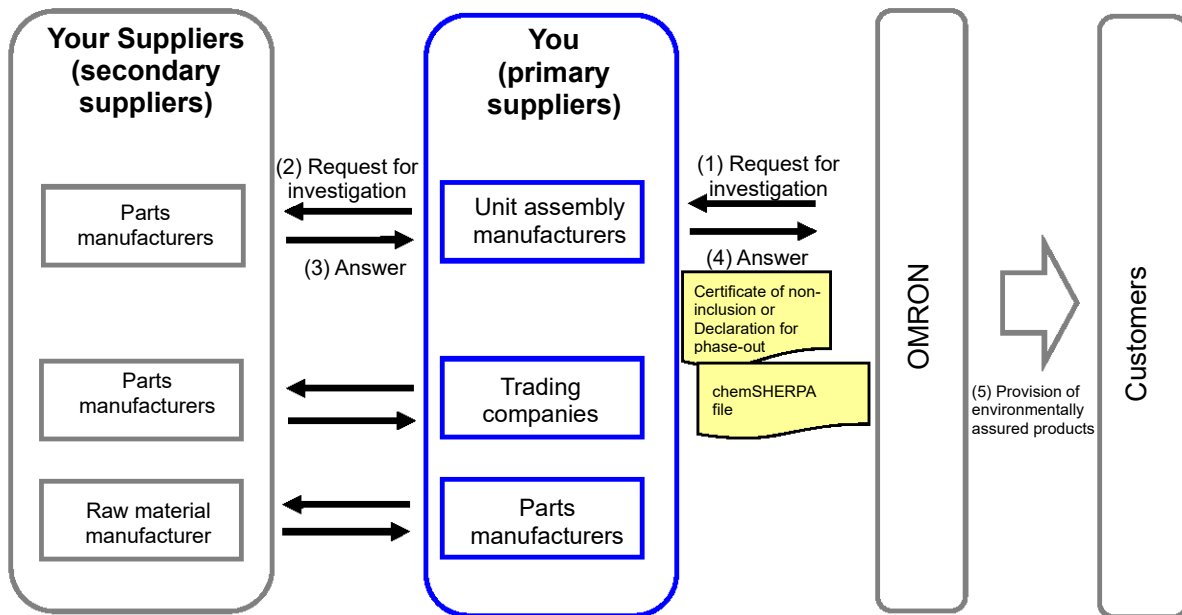


Figure 1. Relationship between Parts and Materials Investigation and environmental assurance

## 5. Requirements

### 5.1 OMRON's Requirements for the Management of Chemical Substances in Parts and Materials

#### 5.1.1 Management of chemical substances in parts and materials

Omron manages the chemical substances contained in the products that are specified by laws and regulations according to Omron's unique management classification (ranks). In addition to your compliance with the requirements according to the management classification by Omron, make sure to report the content information. In principle, Omron will not purchase any parts or materials that contain banned substances.

In addition, Attachment 1 "List of Regulated Chemical Substances" and Attachment 2 "Exempted Application List"<sup>\*1</sup> specify the management classification (ranks) for each reported use of substance/substance group. For specific examples of substances belonging to a substance group, refer to IEC62474 RSL<sup>\*2</sup>.

\*1. If an exempted use under the RoHS Directive can be used in any category, it is described in Attachment 2 to clearly define the management classification as OMRON.  
If it cannot be used in any of the categories, it is not described in Attachment 2.

\*2. IEC62474 RSL is a list of Reference substances (example substances) as defined by IEC62474, and can be downloaded from the website at the following URL:

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

Table 1. Requirements for each management classification (rank)

<b>Management classification (Rank)</b>	<b>Requirements</b>	<b>Definition of management classification</b>	<b>Laws, regulations, etc.</b>
Banned substances/applications (A rank)	Banned to use in products, parts or materials	Substances whose content is already banned by laws and regulations, or substances/applications designated as banned to use by OMRON originally.	See Attachment 1 "List of Regulated Chemical Substances"
Phase-out substances/applications (A1 rank)	To be substituted before the deadline for the phase-out in parts and materials.	Substances whose ban for use in the future has already been finalized, or substances/applications designated as non-use by OMRON originally (deadline for the non-use is specified by OMRON)	
Content management substances/applications (B rank)	Grasping of contained amount of regulated substances and promotion of alternative substances	Among the substances/applications designated by IEC62474 and/or the related laws and regulations, those for which grasping of the contained amount/ratio and consumption are required by laws and regulations, or those for which content indication or information provision of the safeness, etc. is required by laws and regulations if they are contained.	See Table 2
Voluntary control substances/applications (C rank)	Understanding of the contained amount	Among the substances/applications designated by IEC62474 and/or the related laws and regulations those that are other than banned substances/applications (A rank), phase-out substances/applications (A1 rank), and content management substances/applications (B rank).	-

Note 1 In accordance with Section 3.2.1 (3) of the Green Procurement Standard, regardless of whether the product is subject to an investigation of contained chemical substances, conduct appropriate process control (control of transfer contamination of phthalates via equipment, tools, packaging materials, etc. used in manufacturing) to prevent confusion of A and A1 rank substances.

Table 2. Laws, regulations, industry standards, etc., for substances/uses to be controlled (Rank B)

Laws, regulations, industry standards, etc.	Remarks
(JP) Chemical Substances Control Law : Class I Specified Chemical Substances	Excluding “Banned substances/applications” (Rank A) and “Phase-out substances/applications” (Rank A1) in Table 1
(US) Toxic Substances Control Act (TSCA) : Section 6	
(EU) Directive 2000/53/EC (ELV) : Targeted substances	
(EU) 2011/65/EU (RoHS) : Annex II	
(EU) 2019/1021 (POPs) : Annex I	
(EU) REACH Regulation Candidate List of SVHC for Authorisation (candidate substances for authorization) and Annex XIV (substances for authorization)	
(EU) REACH Regulation Annex XVII (restricted substances)	
(EU) Medical Device Regulation (MDR) Annex I 10.4 Chemicals	
(China) The Administrative Measures for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products	
Global Automotive Declarable Substance List (GADSL)	
IEC 62474 DB Declarable substance groups and declarable substances	

You can access the following documents and lists for the applicable substances as “Banned substances/applications” (Rank A), “Phase-out substances/applications” (Rank A1), and “Content management substances/applications” (Rank B) specified in this investigation manual under each law, regulation and industry standard.

“Explanation document on substances to be controlled in chemSHERPA”

Reference destination of materials, lists, and other reference materials:

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

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

Reference destination for other materials (The website of Ministry of Economy, Trade and Industry in Japan ):

Japanese: [https://www.meti.go.jp/policy/chemical\\_management/other/douga.html](https://www.meti.go.jp/policy/chemical_management/other/douga.html)

English/Chinese: [https://www.meti.go.jp/policy/chemical\\_management/english/video.html](https://www.meti.go.jp/policy/chemical_management/english/video.html)

### 5. 1. 2 Basic understanding on content criteria and content above the threshold

The judgment whether a chemical substance is contained or not is based on Table 3 below. When the substance does not fall in “reportable applications,” or it falls in “reportable applications” but the content is below “reporting threshold,” the substance is considered to be “not included.” The content criteria is established for each substance/substance group in the List of the Regulated Chemical Substances (Attachment 1). The basic understanding on the content above the threshold shown herein is the same as that of IEC62474.

Table 3. Content criteria and content above the threshold

Content Criteria		Content above the threshold
Reportable Applications *1	Reporting Threshold *2	
Applicable	Or more	Y
	Less than	N
Not applicable	Or more	N
	Less than	N
Not applicable (unknown)	Refer to 5. 2. 1 (5)	

\*1. Reportable Applications :Target application of substances regulated by laws and regulations.

For each substance, target applications such as "all products", "batteries", "textile products", "products for children" are designated. If this target application is not applicable, it is excluded from the management of chemical substances in parts or materials.

\*2. Reporting Threshold: Threshold of substances in target application regulated by laws and regulations.

If content rate is indicated as the reporting threshold, content is judged based on the content rate calculated as per denominator indicated in the “Reporting Level (product / article / part / material).”

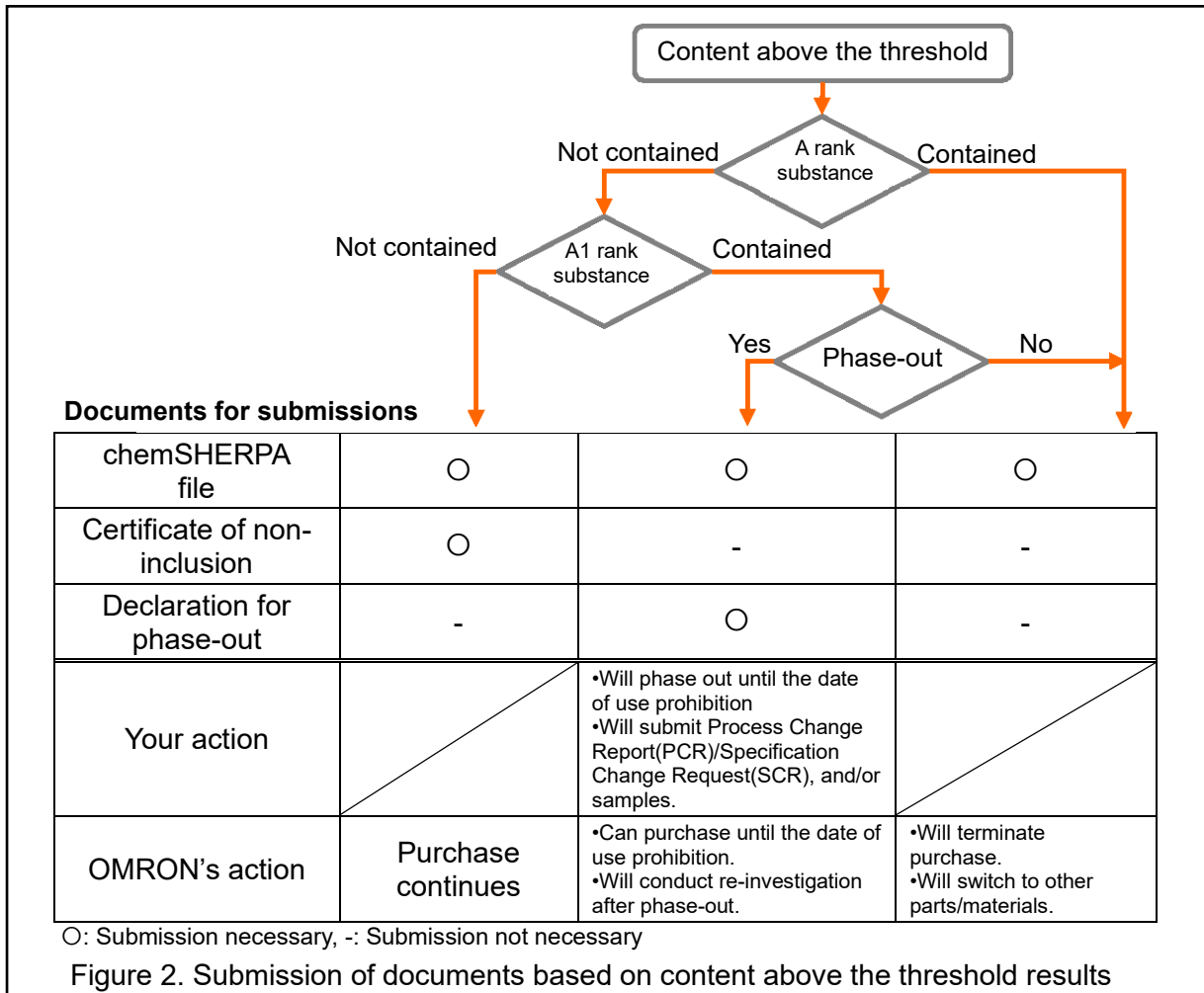
- \* If “reporting threshold” shows “intentionally added”, content above the threshold is “Y” if there is intentional addition regardless of amount added, and content above the threshold is “N” if there is no intentional addition. Examples of unintentional addition include impurities contained in natural resources, process reaction residue etc.
- \* If "reporting threshold" shows “intentional addition” or "content rate (%)”, it is judged to be "Y" if either is fulfilled. (This is to be on the safe side)
- \* Articles are items given specific shape, appearance or design during its manufacturing to serve its function in its end application rather than the functions of its chemical composition.  
For products comprised of one or more articles, each component shall be considered as an article (based on the decision of the European Court of Justice in September 2015).



**5. 1. 3 Submission of documents based on content above the threshold results**

OMRON will continue to purchase materials that are supported by documents such as content above the threshold results.

OMRON's Certificate of Non-inclusion and chemSHERPA file shall be submitted as means to check for the non-inclusion of substance / application of A and A1 ranks and content information of substance / application of B and C ranks. OMRON's Declaration for Phase-out shall be submitted if substance / application of A and A1 ranks are contained and its phase-out is planned. Figure 2 shows the submissions of documents based on content above the threshold results.



You can access [Standards and Forms] in the URL below to download Omron forms such as "Certificate of Non-Containment" and "Complete Abolition Pledge"  
[https://sustainability.omron.com/en/enviro/procurement/green\\_procurement/](https://sustainability.omron.com/en/enviro/procurement/green_procurement/)

**5. 1. 4 Actions in case a banned substance/applications (A rank) is found to be contained**

In the event that a banned substance/applications(A rank) is detected as contained, immediately contact OMRON's contact person. Follow the instructions from OMRON regarding the part or material containing the banned substance, and take appropriate actions including stopping the production, as necessary.

## 5.2 Requirements when Responding to Investigation Request

### 5.2.1 Requirements for chemSHERPA-AI file

chemSHERPA-AI is made of 3 information windows : "General", "Compliance" and "Composition".

(1) Collection of your company information

In principle, request for the investigation of parts and materials are made to the suppliers or vendors of the parts or materials. However, if response is not received from OMRON's designated suppliers, consult OMRON's contact person.

(2) The specified version of the chemSHERPA-AI support tool

In principle, use the specified version of the chemSHERPA-AI support tool when OMRON requests the investigation.

(3) Types of reported information

In principle, "Composition" and "Compliance" are required.

When preparing "Compliance" and "Composition", ensure consistency between the two pieces of data.

(4) Reporting unit

"Reporting unit" in "General" shall be set according to the unit of OMRON's product number indicated in OMRON's requests for investigation. (Refer to Table 4.)

Table 4. "Reporting unit" in chemSHERPA-AI for unit of OMRON's product number

Unit of OMRON's product number	"Reporting unit" in chemSHERPA-AI
PCS, piece	piece <sup>*1</sup>
MM, CM, M, KM (electrical cable)	cm, m
ML, L, KL, litter	l, cm <sup>3</sup> , m <sup>3</sup>
MG, G, KG (material-related units)	g, kg * the unit used in "Unit of mass" is the same as the unit used in "Reporting unit". Set the "Mass" always as "1".

\*1. Prepare the chemSHERPA - AI file for each quantity of OMRON's product number that are in transaction with OMRON.

- For example, one contact pin (1 piece) and one reel (1 piece) of connector have different meanings. Contact OMRON if you are unsure.
- Do not include packaging materials (such as wrapping materials, cushioning materials, tapes, labels etc.) that are used on the subject products or disposable boards that will be discarded after the delivery or after the production process is completed.

(5) Confirming reportable applications

When filling in "Compliance", if suppliers are not sure what the product will be used for in OMRON, and are unable to confirm its reportable application; suppliers are required to confirm the use with OMRON and judge whether it is contained or not. For example, the reportable application of Phthalate Group 2 is "toys and childcare articles". So, if the reportable application is unclear, get a confirmation from OMRON before replying. Refer to the following for subject substances that have to be confirmed for their reportable application.

Subjects: Nickel, dioctyltin (DOT) compounds, Some azocolorants and azodyes, Selected phthalates Group 1 (BBP, DBP, DEHP, DIBP), Selected phthalates Group 2 (DIDP, DINP, DNOP), Halogenated Flame Retardants, Cadmium, Chromium (VI), Lead, Mercury, PFOS, PFOA, PAHs, UV-328, Formaldehyde, Mineral oil aromatic hydrocarbons comprising from 1 to 7 aromatic rings(MOAH), Mineral oil aromatic hydrocarbons comprising from 3 to 7 aromatic rings(MOAH), Hydrocarbons saturated with mineral oil containing 16 to 35 carbon atoms(MOSH)

\* Benzo[e]pyrene, Benzo[j]fluoranthene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Chrysen, Benzo[a]pyrene, Dibenzo[a,h]anthracene and Benzo[a]anthracene are applicable.

(6) Usage and Portion used

Although information for "Usage" and "Portion used" in "Compliance" are not mandatory to be filled in, suppliers are required to fill in as much information as possible to facilitate transmission of information to customers.

(7) Regarding SCIP \*1 information entry

On the general screen of the chemSHERPA-AI file, be sure to select the "SCIP information" field (Compliance/Composition).

When SVHC are contained, enter the SCIP information in the SCIP information screen.

The following six items are required in the SCIP information entry: (1) Article Name, (2) Primary Article Identifier, (3) Article Category, (4) Production in European Union, (5) Safe use instruction, and (6) Material Category.

Depending on the business, requests may be made that differ from those covered by the Investigation Manual.

(8) Response to the loss of REACH SVHC content information (cautionary notes when using the tool of Ver. 2.00 or later)

Due to the specification of the tool, the SVHC information which is contained will be lost when data from an older version (Ver. 1.07/1.06, etc.) whose compliance states the SVHC content information in "Compliance" is loaded using the tool of Ver. 2.00 or later and updated (cancellation of finalization) or combined. Check the SVHC content information before executing update (cancellation of finalization) or combination, and manually input the content judgment, content and so forth when preparing the Ver. 2.00 data or one of a later version to make sure that the information is transmitted.

(9) Handling of information provided

Information provided by your company will be used as information on OMRON product in accordance with "Rules on the use of Information on CiP under the chemSHERPA". This information is not confidential information and it is disclosed to downstream companies. Therefore, do not include confidential information in the data prepared.

\*1 SCIP (Substances of Concern In articles as such or in complex objects (Products)) refers to the SVHC (substances of very high concern) information contained in parts and molded products which constitute the product. In accordance with the amendment to the EU Waste Framework Directive (2018/851 WFD), from January 5, 2021, it will become mandatory to register SCIP information to the SCIP database established by the ECHA (European Chemicals Agency). To address this responsibility, SCIP information must be communicated.

### 5. 2. 2 Requirements for the preparation of "Certificate of Non-inclusion for Regulated Substances"

When the products, parts or materials delivered to Omron as of the date of issuance do not contain any of the prohibited substances/applications that fall under "banned substances/applications (A rank)" and "non-use substances/applications (A1 rank)" of Attachment 1 "List of Regulated Chemical Substances," prepare the "Certificate of Non-inclusion for Regulated Substances" as an evidence document as shown below.

- (1) Enter "Company name", "Department name", "Title name" and "Signature of Responsible Person". In principle, OMRON's primary supplier shall prepare this document. If you are a trading firm, enter your company's name and not the manufacturer's name. The seal to be stamped on this document shall be your company's seal or the signature of your responsible person. The responsible person specified here shall be a person who can guarantee on the information provided and accountable in the event of unforeseen situations (incurring of damage compensation etc.)
- (2) Enter "OMRON's product" number and "Product name" of the products, parts or materials that contains no regulated substances. If the given space is not sufficient to write in all subject substances, a separate sheet may be attached.
- (3) Enter "year, month, day" of the issuance. The validity of this certificate shall be until your next issuance of this certificate.

Note 1. OMRON may request the submission of analytical (measurement) data apart from the Certificate of Non-inclusion when its customers request so.

Note 2. When the parts/materials subject to the survey are packaging and wrapping materials used for transportation from Omron to customers, confirm non-inclusion of not only the substances/applications regulated by chemSHERPA, but also of substances/applications uniquely added by Omron including heavy metals (cadmium, hexavalent chromium, lead, and mercury), polyvinyl chloride (PVC), and phthalates group 1 contained in the packaging materials listed in Attachment 1 "List of Regulated Chemical Substances."

### 5. 2. 3 Requirements for the preparation of “Declaration of Phase-out of Regulated Substances”

When a part or material contains any phase-out substances / applications (A1 rank) listed in the List of Regulated Chemical Substances (Attachment 1) (with a condition that banned substances / applications (A rank) are not contained), the Declaration of Phase-out of Regulated Substances Contained in Parts and Materials shall be prepared to guarantee the phase-out of such substances by the deadline for non-use (time of total elimination).

- (1) Enter “Company name”, “Department name”, “Title name” and “Signature of Responsible Person”. In principle, OMRON's primary supplier shall prepare this document. If you are a trading firm, enter your company's name and not the manufacturer's name. The seal to be stamped on this document shall be your company's seal or the signature of your responsible person. The responsible person specified here shall be a person who can guarantee on the information provided and accountable in the event of unforeseen situations (incurring of damage compensation etc.)
- (2) Enter “OMRON's product number”, “Product name”, “Application Code in Exempted Application list ” and “Deadline for phase-out” of the product, part or material to be phased out. The deadline for phase-out shall be any date prior to the time of total elimination specified by OMRON. If the given space is not sufficient to write in all subject substances, a separate sheet may be attached.
- (3) Enter “year, month, and day” of the issuance. The validity of this declaration shall be until the completion of your actions to phase out subject substances and the issuance of their Certificate of Non-inclusion.

Note 1. Whenever a material or process change is made necessary as a result of phase-out substances / applications (A1 rank) replacement, Specification Change Request (SCR) or Process Change Report (PCR) \* shall be submitted to OMRON's contact person before the deadline for phase-out for approval. Samples may need to be attached, if necessary.

\* Different forms may be used depending on the department in charge in OMRON. Check with the department in charge for the report to be used.

Note 2. OMRON is able to purchase parts or materials whose Declaration of Phase-out have been provided to OMRON up until the time of total elimination specified by OMRON. OMRON will conduct the investigation again after the implementation of phase-out. (Investigation using the new product number will be conducted when the product number is changed as a result of the phase-out.)

Note 3. If phase-out is not performed, the Declaration of Phase-out cannot be submitted. In such case, OMRON will then consider replacing it to other parts and materials.

Note 4. When the parts/materials subject to the survey are packaging and wrapping materials used for transportation from Omron to customers, confirm non-inclusion of not only the substances/applications regulated by chemSHERPA, but also of substances/applications uniquely added by Omron including heavy metals (cadmium, hexavalent chromium, lead, and mercury), polyvinyl chloride (PVC), and phthalates group 1 contained in the packaging materials listed in Attachment 1 “List of Regulated Chemical Substances.”

## 5.3 Requirements for Submission and Change Management

### 5.3.1 Naming of files to be submitted

Submit documents (data) saved as naming rule below.

<Naming rule>

Type of file	_Supplier code_	Reference no.	_Issue date_	Character string .	Extension
(1)	(2)	(3)	(4)	(5)	(6)
(1) SHAI: chemSHERPA-AI file; HGS: Certificate of Non-inclusion; ZPS: Declaration of Phase-out	(2) Supplier code: eight digits, E.g., 02XXXXXX	(3) Reference no.: Investigation number specified by OMRON at the time of request (the reference number in the "requester information field" in chemSHERPA-AI )	(4) Date of issuance: eight digits, E.g., 20110401	(5) Character string such as model name or product name	(6) chemSHERPA-AI file: shai; Certificate of Non-inclusion / Declaration of Phase-out : pdf

### 5.3.2 Management of changes in information

If there were any changes in the information provided in the document (data) already submitted to OMRON, that document (data) must be immediately revised and informed to OMRON's contact person. Changes are foreseen in below situations:

- Calculation error of the substance's content was detected.
- Changes in content information provided by your supplier.
- A new substance was added to the list of chemical substances in this manual or the content criteria is changed.
- A change (material, printing, paint, plating, adhesive, lubricant, soldering and production site) occurred at supplier's site.

(If necessary, documents such as Specification Change Request (SCR)\* or Process Change Report (PCR)\*, and samples may have to be submitted)

\* Different report may be used depending on the department in charge in OMRON, Check with the department in charge for the report to be used.

## 6. Response Procedure

### 6.1 Procedure for Investigation of Material Composition

Conduct investigation of material composition based on the procedure shown in Figure 3.

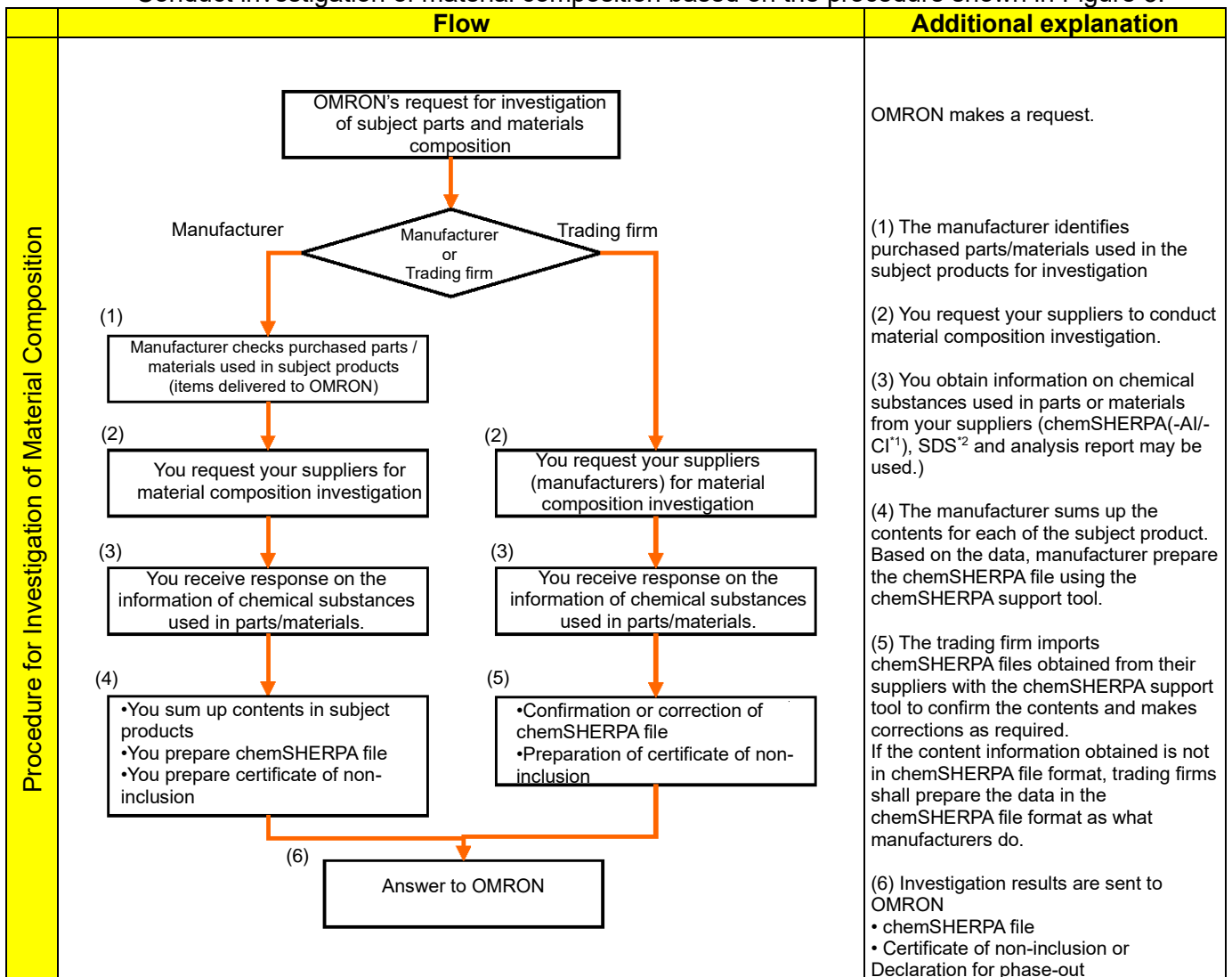


Figure 3. Procedure for Material Composition Investigation

\*1. chemSHERPA-CI

Electronic data that contains subject items for investigation prepared using the chemSHERPA-CI support tool meant for chemical products (preparation/mixture).

\*2. SDS: Safety Data Sheet

These documents are prepared and provided to establishments using or dealing with chemical substances to help them ensure the protection of environment and people's health, and implementation of actions necessary to maintain occupational safety. In Japan, provision of SDS is obligated under the Industrial Safety and Health Act, PRTR Act, and Poisonous and Deleterious Substances Control Act.

## History of Major Revisions

Date of revision	Version	Major Points of Revision
Previous revision history omitted due to full review		
June 17, 2024	Ver5.0	<ol style="list-style-type: none"> <li>1. Improvement of the following in considering trends at other companies               <ul style="list-style-type: none"> <li>• Substances/uses to be controlled (Rank B) were deleted from the list and descriptions changed to laws, regulations, industry standards, etc.</li> <li>• Deletion of the List of Example Substances</li> </ul> </li> <li>2. Change according to the date of ban               <ul style="list-style-type: none"> <li>Related to Attachment 1                   <ul style="list-style-type: none"> <li>• Change in the management classification (rank) after reaching of the date of ban                       <ul style="list-style-type: none"> <li>- Dechlorane Plus (Rank A1 -&gt; Rank A)</li> <li>- UV-328 (Rank A1 -&gt; Rank A)</li> </ul> </li> </ul> </li> <li>Related to Attachment 2                   <ul style="list-style-type: none"> <li>• Change in notation of the date of ban on the Exemption List</li> </ul> </li> </ul> </li> <li>3. Reflection of the changes in notations in chemSHERPA               <ul style="list-style-type: none"> <li>Related to Attachment 1 and Attachment 2                   <ul style="list-style-type: none"> <li>• Reflection of the changes in reported use of formaldehyde (Rank A), etc.</li> <li>• Reflection of the changes in threshold names for halogen flame retardants (Rank A)</li> <li>• Reflection of the corrections in substance names (Japanese)</li> </ul> </li> </ul> </li> <li>4. Other               <ul style="list-style-type: none"> <li>Related to Attachment 1                   <ul style="list-style-type: none"> <li>• Addition of Portable Batteries to the Lead/Lead Compounds Section (Rank A)</li> </ul> </li> </ul> </li> <li>5. Improvement in the following aspects               <ul style="list-style-type: none"> <li>• Change of component information and compliance judgment information as mandatory in chemSHERPA</li> <li>• Other improvements related to expressions of requirements</li> <li>• Deletion of the form samples in Attachments 4 to 7</li> <li>• Deletion of the chemSHERPA preparation procedures in Attachments 8 to 12 and addition of the reference destination URLs</li> </ul> </li> </ol>

### Investigation Manual for Regulated Chemical Substances Version 5.0

Issued on: Oct. 21, 2003

Revised on: Jun. 17, 2024

Issued by: OMRON Corporation

Global Procurement, Quality and Logistics HQ.



## Attachment 1. List of Regulated Chemical Substances

### Attachment 1. List of Regulated Chemical Substances

The cautions about "Note" used in the list are as follows.

Cautions :

Note 1 Content above the threshold shall be made in accordance with the content criteria. Refer to Section 5.1.2 for details.

Note 2 Reporting level describes what the content rate is referred to (your products, homogeneous materials, parts etc.)(denominator for calculating the content rate).Refer to Section 5.1.2 for details.

Product, material and part in the List refers to the following.

Product = Your product, Material = Homogeneous material, Part = Component part, Articles = Refer to \*2, Section 5.1.2.

Note 3 Absence

Note 4 This substance / substance group have A1 rank application / threshold. Judge its content in substance / substance group listed in the table for "A1: Phase-out substances".

Note 5 This substance / substance group have A rank application / threshold. Judge its content in substance / substance group listed in the table for "A : Banned substances".

Note 6 This substance / substance group have exempted applications. Refer to Attachment 2.

Note 7 As the threshold is indicated by the content rate of the subject element, the content rate shall be calculated using the subject element's conversion factor and its content judged.

Note 8 Although this standard is not included in "Compliance" in chemSHERPA , this is a standard in which OMRON added the applications originally, threshold and exempted applications based on laws and regulations originally.

Note 9 Heavy metals (cadmium, hexavalent chromium, lead, mercury) in packaging materials, Polyvinyl chloride (PVC), Tris(2-chloro-1-methylethyl) phosphate (TCPP), Tris(1,3-dichloro-2-propyl)phosphate (TDCPP), PFHxS and its salts, and PFHxS related substances, Mineral oil aromatic hydrocarbons comprising from 1 to 7 aromatic rings (MOAH), Mineral oil aromatic hydrocarbons comprising from 3 to 7 aromatic rings (MOAH), Hydrocarbons saturated with mineral oil containing 16 to 35 carbon atoms (MOSH) are substances that OMRON specifically self-added. Although these substances are not included in chemSHERPA's substance list for compliance, the content of these substances shall be judged.

Note 10 Absence

Note 11 "Prolonged skin contact is evident" means that the subject parts/materials come in contact with the skin and that OMRON product composing this subject parts/materials will fail the EN 1811 test.

Examples of products that may have prolonged skin contact are as follows :

Earrings, necklaces, bracelets, chains, anklets (ankle accessories), rings, watches (watch case, strap, buckle), rivets (buttons, fasteners, zippers), and other metal items to be attached to clothing.

Note 12 If a substance can be used in one of the categories in exempted applications under RoHS Directive, it will be described on Attachment 2 in order for OMRON to clearly indicate the management category. It will not be described on Attachment 2 if it cannot be used in all categories.

Note 13 Absence

Note 14 If content of 0.1% or higher is reported in applications described in content judgment standard field (reportable applications) with ID:00023 or ID:00024, please also report as ID:00021 in order to clearly indicate the RoHS exemption.

Note 15 The following nine product types are subject to reporting. Report only when your company products are reportable applications applicable.

[1] Cathode-ray tube equipment, [2] Cathode-ray tube, [3] Computer monitor with cathode-ray tube, [4] Cathode-ray tube television, [5] Laptop computer with liquid crystal display, [6] Desktop liquid crystal display, [7] Liquid crystal display screen television, [8] Portable DVD player with liquid crystal display screen, [9] Plasma television

In addition, if any of the above 9 types of products are used as part of your company's products, report this as well.

## Attachment 1. List of Regulated Chemical Substances

Note 16 For definitions of packaging and packaging materials, please refer to \*1 in Section 3 of the main text.

Note 17 Printed materials refers to the paper printed materials included with OMRON products. Specifically, instruction manuals, warranty cards, quick guides, caution sheets, etc. apply.

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1			Referenced laws & regulations
				ID	Applications (Reportable applications)	Threshold (Reporting threshold / Reporting Level Note 2)	
1	-	Asbestos	A	00003	All	Intentionally added [ReportingLevel:Product]	[EU] REACH Regulation ANNEX XVII [USA] Toxic Substances Control Act (TSCA) [Switzerland] Act of Reduction of Risks in chemical Substances
2	-	Azocolourants and azodyes which form certain aromatic amines	A	00004	Textiles and Leather	0.003% by weight of the finished textile/leather product [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
3	-	Cadmium/Cadmium compounds	A Note 6	00010	All, except batteries	0.01 mass% of total Cd in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive ANNEX II [China] China RoHS
			A Note 8	00011	(1) Alkali /Manganese / nickel metal hydride batteries excluding button batteries	0.001% by weight of battery (10ppm) [ReportingLevel:Product Part] Note 7	[Korea]Battery Regulation
			B Note 8	00011	All batteries, except above (1)	0.01 mass% of total Cd in homogenous material [ReportingLevel:Material] Note 7	[Korea]Battery Regulation
			A Note 8	00011	All batteries, except above (1)	0.002% by weight of battery (20ppm) [ReportingLevel:Product Part] Note 7	[EU] Battery Directive
			A	00166	Video display devices, with a screen size of greater than four inches Note 15	0.01 mass% of total Cd in homogenous material [ReportingLevel:Material] Note 7	[USA]Laws of certain US state
4	-	Chromium (VI) Compounds	A Note 6	00012	All	0.1 mass% of total Cr+6 in homogenous material [ReportingLevel:Material] Note 7	[EU] RoHS Directive ANNEX II [China] China RoHS [Japan] Law for the Promotion of Effective Utilization of Resources
			A	00167	Video display devices, with a screen size of greater than four inches Note 15	0.1 mass% of total Cr+6 in homogenous material [ReportingLevel:Material] Note 7	[USA]Laws of certain US state

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1			Referenced laws & regulations
				ID	Applications (Reportable applications)	Threshold (Reporting threshold / Reporting Level Note 2)	
5	-	Dibutyltin (DBT) compounds	A	00014	All	0.1 mass% of tin in the part [ReportingLevel:Product Part] Note 7	[EU] REACH Regulation(EC)ANNEX XVII
6	-	Diocetyl tin (DOT) compounds	A Note 6	00015	(a) textile and leather articles intended to come into contact with the skin, (b) childcare articles, (c) two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	0.1 mass% of tin in the part [ReportingLevel:Product Part] Note 7	[EU] REACH Regulation(EC)ANNEX XVII
7	-	Hexabromocyclododecane (HBCDD)	A	00020	All	Intentionally added or 0.01 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (SVHC) [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. [EU] POPs Regulation ANNEX I
8	-	Lead/Lead Compounds	A Note 6, 14	00021	All, except batteries	0.1 mass% of total Pb in homogenous material [ReportingLevel:Material] Note 7	[EU] RoHS Directive ANNEX II [China] China RoHS [Japan] Law for the Promotion of Effective Utilization of Resources [EU] REACH Regulation ANNEX XVII
			A	00022	Consumer products designed or intended primarily for children 12 years of age or younger	0.01 mass% [ReportingLevel:Product] Note 7	[USA] Consumer Product Safety Improvement Act
			A Note 14	00023	Paint and similar surface coatings of toys and other articles intended for use by children	0.009 mass% of surface coating material [ReportingLevel:Material] Note 7	[USA] Consumer Product Safety Improvement Act
			A Note 14	00024	Cables/cords with thermoset or thermoplastic coatings	0.03 mass% of surface coating material [ReportingLevel:Material] Note 7	[USA]Laws of certain US state
			A Note 8	00025	(1) Alkali batteries (except button batteries)	0.004 mass% of battery (40ppm) [ReportingLevel:Product Part] Note 7	[China] Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1		Referenced laws & regulations	
				ID	Applications (Reportable applications)		Threshold (Reporting threshold / Reporting Level Note 2)
8	-	Lead/Lead Compounds	A Note 8	00025	Alkali batteries (Button batteries) or Manganese batteries	0.1 mass% of battery (1000ppm) [ReportingLevel:Product Part] Note 7	[Brazil] Conama
			B Note 8	00025	All batteries, except above (1)	0.004 mass% of battery (40ppm) [ReportingLevel:Product Part] Note 7	[EU] Battery Directive
			A Note 8	-	Portable batteries (excluding portable zinc-air button batteries)	0.01 mass% of battery (100ppm) [ReportingLevel:Product Part] Note 7	[EU] Battery Regulation
			A	00168	Video display devices, with a screen size of greater than four inches Note 15	0.1 mass% of total Pb in homogenous material [ReportingLevel:Material] Note 7	[USA] Laws of certain US state
9	-	Mercury/Mercury Compounds	A Note 6	00029	All, except batteries	Intentionally Added or 0.1 mass% of total Hg in homogenous material [ReportingLevel:Material] Note 7	[EU] RoHS Directive ANNEX II [China] China RoHS [Japan] Law for the Promotion of Effective Utilization of Resources [EU] REACH Regulation ANNEX XVII [Canada] Products containing Mercury regulations
			A	00030	Batteries	Intentionally added or 0.0001 mass% of battery [ReportingLevel:Product Part] Note 7	[EU] Battery Directive [China] Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries [Taiwan] Restrictions on the Manufacture, Import, and Sale of Dry Cell Batteries [Korea] Battery Regulation [USA] Laws of certain US state

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1			Referenced laws & regulations
				ID	Applications (Reportable applications)	Threshold (Reporting threshold / Reporting Level Note 2)	
9	-	Mercury/Mercury Compounds	A	00132	Batteries	0.0005 mass% of total Hg in homogenous material [ReportingLevel:Material] Note 7	[Canada] Products containing Mercury Regulations
			A	00169	Video display devices, with a screen size of greater than four inches Note 15	0.1 mass% of total Hg in homogenous material [ReportingLevel:Material] Note 7	[USA] Laws of certain US state
10	-	Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)	A	00032	All	Intentionally Added [ReportingLevel:Product]	[Japan] Law concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures; [USA] Clean Air Act; (Treaty) Montreal Protocol on Substances that Deplete the Ozone Layer
11	-	Perfluorooctane sulfonates (PFOS)	A Note 6	00124	Textiles or other coated materials.	Intentionally added or 1 microgram/m2 of coated material [ReportingLevel:Material]	[EU] POPs Regulation ANNEX I [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
			A Note 6	00125	All except textiles or other coated materials.	Intentionally added or 0.1 mass% of the part (as the sum of PFOS) [ReportingLevel:Material]	[EU] POPs Regulation ANNEX I [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
12	-	Phthalates, Selected Group 1 (BBP, DBP, DEHP)	A	00036	Children's toy or child care article	0.1 mass% as the sum of the phthalate concentrations in plasticized material [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII [USA] Consumer Product Safety Improvement Act
			A Note 8	-	All products except for the following: - Toys and child care products, - Products to which RoHS Directive is applied, and - Products to which Medical Device Regulation (MDR) is applied - Articles without plasticized materials that come in contact with human oral mucous membrane or with skin for a long period whose use is limited to industrial	0.1 mass% as the sum of the phthalate concentrations in plasticized material [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1			Referenced laws & regulations
				ID	Applications (Reportable applications)	Threshold (Reporting threshold / Reporting Level Note 2)	
13	-	Phthalates, Selected Group 2 (DIDP, DINP, DNOP)	A	00037	Children's toy or child care article that can be placed in a child's mouth	0.1 mass% as the sum of the phthalate concentrations in plasticized material [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII [USA] Consumer Product Safety Improvement Act
14	-	Polybrominated biphenyls (PBB)	A	00044	All	0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive ANNEX II [China] China RoHS [Japan] Law for the Promotion of Effective Utilization of Resources
15	-	Polybrominated diphenyl ethers (PBDE)	A	00045	All	Intentionally added or 0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive ANNEX II [China] China RoHS [Japan] Law for the Promotion of Effective Utilization of Resources; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
16	-	Polychlorinated Biphenyls (PCBs) and specific substitutes	A	00046	All	Intentionally added [ReportingLevel:Product]	[EU] POPs Regulation ANNEX I [USA] Toxic Substances Control Act (TSCA) [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
17	-	Polychlorinated Terphenyls (PCTs)	A	00047	All	0.005 mass% in material [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
18	-	Polychlorinated naphthalenes	A	00048	All	Intentionally added [ReportingLevel:Product]	[EU] POPs Regulation ANNEX I [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
19	-	Radioactive substances	A	00049	All	Intentionally added [ReportingLevel:Product]	[USA] Nuclear Regulatory Commission Regulations [Japan] Law for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors [Japan] Law Concerning Prevention from Radiation Hazards due to Radio-Isotopes, etc. [EU] Directive/Euratom

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1			Referenced laws & regulations
				ID	Applications (Reportable applications)	Threshold (Reporting threshold / Reporting Level Note 2)	
20	-	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	A	00052	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (SVHC) [EU] POPs Regulation ANNEX I [Norway] Consumer Product Regulations [Switzerland] Act of Reduction of Risks in chemical Substances
21	-	Tri-substituted organostannic compounds	A	00055	All	Intentionally added or 0.1 mass% of tin in the part [ReportingLevel:Product Part] Note 7	[EU] REACH Regulation (EC) ANNEX XVII [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. [Norway] Consumer Product Regulations
22	-	Nickel/Nickel Compounds	A Note 8	00031	All, where prolonged skin contact is expected (prolonged skin contact is evident) Note 11	Intentionally Added [ReportingLevel:Product]	[EU] REACH Regulation ANNEX XVII
			B Note 8	00031	All, where prolonged skin contact is expected (prolonged skin contact is unknown)	Intentionally Added [ReportingLevel:Product]	[EU] REACH Regulation ANNEX XVII
23	-	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.1.6,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) Dechlorane Plus	A Note 8	00147	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	POPs Convention
24	-	Perfluorooctanoic acid and its salts	A Note 6	00160	All	Intentionally added or 0.000025 mass% of PFOA including its salts in article or mixture [ReportingLevel:Article, Mixture]	[EU] POPs Regulation ANNEX I [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. [Korea] Persistent Organic Pollutants Control Act
25	-	PFOA-related compounds	A Note 6	00161	All	Intentionally added or 0.0001 mass% of one or a combination of PFOA-related substances/compounds, in article or mixture [ReportingLevel:Article, Mixture]	[EU] POPs Regulation ANNEX I [Korea] Persistent Organic Pollutants Control Act



No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1		Referenced laws & regulations	
				ID	Applications (Reportable applications)		Threshold (Reporting threshold / Reporting Level Note 2)
26	-	Halogenated Flame Retardants	A Note 6	00171	enclosure and stands for electronic displays including televisions, monitors and digital signage displays with a screen larger than 100 cm <sup>2</sup> , products that do not fall under	0.1 mass% of halogen content in homogeneous material [ReportingLevel:Material]	[EU] Commission Regulation laying down ecodesign requirements for electronic displays
27	-	C9-C14 PFCAs and their salts	A Note 6	00182	All	0.000025 mass% for the sum of C9-C14 PFCAs and their salts in Article or Mixture [ReportingLevel:Article, Mixture]	[EU] REACH Regulation ANNEX XVII
28	-	C9-C14 PFCA related substances	A Note 6	00183	All	0.000026 mass% of one or a combination of C9-C14 PFCA related substances, in article or mixture [ReportingLevel:Article, Mixture]	[EU] REACH Regulation ANNEX XVII
29	1163-19-5	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	A Note 6	00064	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (SVHC) [USA] Toxic Substances Control Act (TSCA)
30	117-81-7	Bis (2-ethylhexyl)phthalate (DEHP)	A	00038	All	0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive ANNEX II [EU] REACH Regulation (SVHC)
31	192-97-2	Benzo[e]pyrene	A	00109	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			A	00117	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
32	205-82-3	Benzo[j]fluoranthene	A	00113	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			A	00121	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1			Referenced laws & regulations
				ID	Applications (Reportable applications)	Threshold (Reporting threshold / Reporting Level Note 2)	
33	205-99-2	Benzo[b]fluoranthene	A	00112	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			A	00120	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
34	207-08-9	Benzo[k]fluoranthene	A	00114	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			A	00122	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			B	00156	All	0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (SVHC)
35	218-01-9	Chrysen	A	00111	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			A	00119	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			B	00144	All	0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (SVHC)
36	25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	A Note 8	00130	All products except for the following: - Parts of motor vehicles - Triacetyl cellulose (TAC) film in polarizers	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	POPs Convention

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1			Referenced laws & regulations
				ID	Applications (Reportable applications)	Threshold (Reporting threshold / Reporting Level Note 2)	
36	25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	A1 Note 8	00130	- Parts of motor vehicles - Triacetyl cellulose (TAC) film in polarizers *Time of Total elimination : 2029-01-01	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	POPs Convention
37	3846-71-7	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	A	00035	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (SVHC); [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
38	50-00-0	Formaldehyde	A	00019	(a)clothing or related accessories, (b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing, (c) footwear	0.0075 mass% in homogenous material [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
39	50-32-8	Benzo[a]pyrene	A	00108	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			A	00116	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			B	00138	All	0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (SVHC)
40	53-70-3	Dibenzo[a,h]anthracene	A	00115	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			A	00123	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1			Referenced laws & regulations
				ID	Applications (Reportable applications)	Threshold (Reporting threshold / Reporting Level Note 2)	
41	56-35-9	Bis(tributyltin) oxide (TBTO)	A	00054	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (SVHC); [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
42	56-55-3	Benzo[a]anthracene	A	00110	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			A	00118	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation ANNEX XVII
			B	00145	All	0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (SVHC)
43	624-49-7	Dimethylfumarate (DMF)	A	00016	All	0.00001 mass% of the part [ReportingLevel:Product Part]	[EU] REACH Regulation ANNEX XVII
44	68937-41-7	Phenol, Isopropylated Phosphate (3:1) (PIP (3:1))	A Note 6	00174	All	Intentionally added [ReportingLevel:Product]	[USA] Toxic Substances Control Act (TSCA)
45	84-69-5	Diisobutyl phthalate	A	00041	All	0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive ANNEX II [EU] REACH Regulation (SVHC)
46	84-74-2	Dibutyl phthalate (DBP)	A	00039	All	0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive ANNEX II [EU] REACH Regulation (SVHC)
47	85-68-7	Benzyl butyl phthalate (BBP)	A	00040	All	0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive ANNEX II [EU] REACH Regulation (SVHC)
48	-	Heavy metals in Packing materials (lead, cadmium, hexachromium, mercury)	A Note 9	-	Packing materials	Intentionally added or Exceeding 0.01% by weight of total weight(100ppm) of heavy metals per homogenous material (100ppm) [ReportingLevel:Material] Note 7	[EU]Packaging Waste Directive [USA]Laws of certain US state
49	9002-86-2	Polyvinyl chloride (PVC) in Packing materials	A Note 9	-	Packing materials	Intentionally added [ReportingLevel:Material]	OMRON's Voluntary Restrictions
50	115-96-8	Tris(2-chloroethyl) phosphate (TCEP)	A Note 9	-	All	0.1 mass% of article [ReportingLevel:Product]	[USA]Laws of certain US state

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1			Referenced laws & regulations
				ID	Applications (Reportable applications)	Threshold (Reporting threshold / Reporting Level Note 2)	
51	13674-84-5	Tris(1-chloro-2-propyl)phosphate (TCPP)	A Note 9	-	All	0.1 mass% of article [ReportingLevel:Product]	[USA]Laws of certain US state
52	13674-87-8	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	A Note 9	-	All	0.1 mass% of article [ReportingLevel:Product]	[USA]Laws of certain US state
53	-	Mineral oil aromatic hydrocarbons comprising from 1 to 7 aromatic rings(MOAH)	A Note 9	-	Packaging materials used in consumer products Note 16	Total MOAH of 1-7 rings 1% by weight (10000ppm) of ink used in packaging [Reporting level: Material]	[France] Mineral Oil Regulations
54	-	Perfluorohexane sulfonic acid (PFHxS) , their salts	A Note 9	-	All	0.000025 mass%(25 ppb) of PFHxS, their salts [ReportingLevel:Article, Mixture]	POPs Convention
55	-	PFHxS related substances	A Note 9	-	All	0.0001 mass%(1000 ppb) of one or a combination of PFHxS related substances [ReportingLevel:Article, Mixture]	POPs Convention

No	CAS No/ Substance group ID Note 3	Substance/Substance group	Management Classification	Content criteria Note 1		Referenced laws & regulations	Time of Total elimination	
				ID	Applications (Reportable applications)			Threshold (Reporting threshold / Reporting Level Note 2)
1	-	Mineral oil aromatic hydrocarbons comprising from 1 to 7 aromatic rings(MOAH)	A1 Note 9	-	Packaging materials, paper printed materials Note 16, Note 17	Total MOAH of 1~7 rings is 0.1% by weight (1000ppm) of ink used in packaging, packaging, and paper printing [Reporting Level: Material]	[France] Mineral Oil Regulations (Ministerial Ordinance dated April 13, 2022)	2024-07-01
2	-	Mineral oil aromatic hydrocarbons comprising from 3 to 7 aromatic rings(MOAH)	A1 Note 9	-	Packaging materials, paper printed materials Note 16, Note 17	Total MOAH of 3~7 rings is 0.0001% by weight (1ppm) of ink used in packaging, packaging, and paper printing [Reporting Level: Material]	[France] Mineral Oil Regulations (Ministerial Ordinance dated April 13, 2022)	2024-07-01
3	-	Hydrocarbons saturated with mineral oil containing 16 to 35 carbon atoms(MOSH)	A1 Note 9	-	Packaging materials, paper printed materials Note 16, Note 17	Total MOSH of 16~35 rings is 0.1% by weight (1000ppm) of ink used in packaging, packaging, and paper printing [Reporting Level: Material]	[France] Mineral Oil Regulations (Ministerial Ordinance dated April 13, 2022)	2024-07-01

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The cautions about "Note" used in the list are as follows.

Cautions :

Note 1 "Industrial displays" are electronic displays designed only for use in industrial environments, and at a minimum must satisfy all the following (a) to (d).

(a) Operation must be possible at 0 to 50°C, (b) there must be no condensation at 20 to 90% humidity, (c) at least IP65 must be satisfied, and (d) must satisfy EMC immunity in an industrial environment

Attachment 2. Exempted Application List

CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	Cadmium/Cadmium compounds	00010	All, except batteries	A	RoHS	8(b)	Cadmium and its compounds in electrical contacts Method of operation: Whether the substance applies to 8 (b)-I shall be confirmed. If applicable, the applicable exempted application shall be selected instead of the main application.	Already prohibited
				B	RoHS	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.	Deadline undetermined
				A	RoHS	13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards Method of operation: Whether the substance applies to 13 (b)-II or III shall be confirmed. If applicable, the applicable exempted application shall be selected instead of the main application.	Already prohibited
				B	RoHS	13(b)-(II)	Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex	Deadline undetermined
				B	RoHS	13(b)-(III)	Cadmium and lead in glazes used for reflectance standards	Deadline undetermined
				A	RoHS	21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Already prohibited
				A	RoHS	30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more	Already prohibited
				A	RoHS	38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	Already prohibited
				A	RoHS	39(a)	Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications ( $<$ 0,2 $\mu$ g Cd per mm <sup>2</sup> of display screen area)	Already prohibited



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CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	Chromium (VI) Compounds	00012	All, except batteries	A	RoHS	9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution	Already prohibited
-	Diocetyl tin (DOT) compounds	00015	(a) textile and leather articles intended to come into contact with the skin, (b) childcare articles, (c) two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	B	REACH Annex XVII	DOT-1	Any articles other than the following articles- textile articles intended to come into contact with the skin,- gloves,- footwear or part of footwear intended to come into contact with the skin,- walls and floor coverings,- childcare articles,- female hygiene products,- nappies,- two-component room temperature vulcanization molding kits (RTV-2 molding kits)	No deadline
-	Lead/Lead Compounds	00021	All, except batteries	A	RoHS	5(a)	Lead in glass of cathode ray tubes	Already prohibited
				A	RoHS	5(b)	Lead in glass of fluorescent tubes not exceeding 0.2% by weight	Already prohibited
				A	RoHS	6(a)	Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0.35 % lead by weight Method of operation: Whether the substance applies to 6(a)-I shall be confirmed. If applicable, the applicable exempted application shall be selected 6(a)-I instead of the this application.	Already prohibited
				B	RoHS	6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight	Deadline undetermined
				A	RoHS	6(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight Method of operation: Whether the substance applies to 6 (b)-I or II shall be confirmed. If applicable, the applicable exempted application shall be selected instead of the main application.	Already prohibited
				B	RoHS	6(b)-I	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling	Deadline undetermined
				B	RoHS	6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	Deadline undetermined
				B	RoHS	6(c)	Copper alloy containing up to 4 % lead by weight	Deadline undetermined
				B	RoHS	7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	Deadline undetermined

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CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	Lead/Lead Compounds	00021	All, except batteries	A	RoHS	7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	Already prohibited
				B	RoHS	7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound	Deadline undetermined
				B	RoHS	7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	Deadline undetermined
				A	RoHS	7(c)-IV	Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete semiconductors	Already prohibited
				A	RoHS	9(b)	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	Already prohibited
				B	RoHS	13(a)	Lead in white glasses used for optical applications	Deadline undetermined
				A	RoHS	13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards Method of operation: Whether the substance applies to 13 (b)-I or III shall be confirmed. If applicable, the applicable exempted application shall be selected instead of the main application.	Already prohibited
				B	RoHS	13(b)-(I)	Lead in ion coloured optical filter glass types	Deadline undetermined
				B	RoHS	13(b)-(III)	Cadmium and lead in glazes used for reflectance standards	Deadline undetermined
A	RoHS	15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages Method of operation: Whether the substance applies to 15(a) shall be confirmed. If applicable, the applicable exempted application shall be selected instead of the main application.	Already prohibited				

Attachment 2. Exempted Application List

CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	Lead/Lead Compounds	00021	All, except batteries	B	RoHS	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 <sup>2</sup> or larger in any semiconductor technology node; — stacked die packages with die of 300 mm <sup>2</sup> or larger, or silicon interposers of 300 mm <sup>2</sup> or larger.	Deadline undetermined
				A	RoHS	17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	Already prohibited
				B	RoHS	18(b)	Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb)	Deadline undetermined
				A	RoHS	18(b)-I	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb) when used in medical phototherapy equipment	Already prohibited
				A	RoHS	21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Already prohibited
				A	RoHS	21(c)	Lead in printing inks for the application of enamels on other than borosilicate glasses	Already prohibited
				A	RoHS	24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Already prohibited
				A	RoHS	25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	Already prohibited
				A	RoHS	29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC (*1)(*1) Council Directive 69/493/EEC of 15 December 1969 on the approximation of the laws of the Member States relating to crystal glass (OJ L 326, 29.12.1969, p. 36).	Already prohibited
				A	RoHS	31	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)	Already prohibited
				B	RoHS	32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	Deadline undetermined
				A	RoHS	33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers	Already prohibited
				B	RoHS	34	Lead in cermet-based trimmer potentiometer elements	Deadline undetermined

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CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	Lead/Lead Compounds	00021	All, except batteries	A	RoHS	37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	Already prohibited
				A	RoHS	41	Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council (1))	Already prohibited
				A	RoHS	42	Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment:— with engine total displacement ≥ 15 litres; or— with engine total displacement < 15 litres and the engine is designed to operate in applications where the time between signal to start and full load is required to be less than 10 seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and agriculture applications.	Already prohibited
-	Mercury/Mercury Compounds	00029	All, except batteries	A	RoHS	1(a)	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For general lighting purposes < 30 W: 2.5 mg	Already prohibited
				A	RoHS	1(b)	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For general lighting purposes ≥ 30 W and < 50 W: 3.5 mg	Already prohibited
				A	RoHS	1(c)	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For general lighting purposes ≥ 50 W and < 150 W: 5 mg	Already prohibited
				A	RoHS	1(d)	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For general lighting purposes ≥ 150 W: 15 mg	Already prohibited
				A	RoHS	1(e)	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 5 mg	Already prohibited
				B	RoHS	1(f)-I	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For lamps designed to emit mainly light in the ultraviolet spectrum: 5 mg	2026-08-24
				A1	RoHS	1(f)-II	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For special purposes: 5 mg	2024-08-24
				A	RoHS	1(g)	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For general lighting purposes < 30 W with a lifetime equal or above 20,000 h: 3.5 mg	Already prohibited
				A	RoHS	2(a)(1)	Mercury in double-capped linear fluorescent lamps for generation lighting purposes not exceeding (per lamp): Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4mg	Already prohibited

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CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	Mercury/Mercury Compounds	00029	All, except batteries	A	RoHS	2(a)(2)	Mercury in double-capped linear fluorescent lamps for generation lighting purposes not exceeding (per lamp):Tri-band phosphor with normal lifetime and a tube diameter $\geq 9$ mm and $\leq 17$ mm (e.g. T5): 3mg	Already prohibited
				A	RoHS	2(a)(3)	Mercury in double-capped linear fluorescent lamps for generation lighting purposes not exceeding (per lamp):Tri-band phosphor with normal lifetime and a tube diameter $> 17$ mm and $\leq 28$ mm (e.g. T8): 3.5mg	Already prohibited
				A	RoHS	2(a)(4)	Mercury in double-capped linear fluorescent lamps for generation lighting purposes not exceeding (per lamp):Tri-band phosphor with normal lifetime and a tube diameter $> 28$ mm (e.g. T12): 3.5 mg	Already prohibited
				A	RoHS	2(a)(5)	Mercury in double-capped linear fluorescent lamps for generation lighting purposes not exceeding (per lamp):Tri-band phosphor with long lifetime ( $\geq$ to 25,000 h): 5 mg	Already prohibited
				A1	RoHS	2(b)(3)	Mercury in other fluorescent lamps not exceeding (per lamp):Non-linear tri-band phosphor lamps with tube diameter $> 17$ mm (e.g. T9): 10 mg	2024-08-24
				A	RoHS	2(b)(4)-I	Mercury in other fluorescent lamps not exceeding (per lamp):Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	Already prohibited
				A	RoHS	2(b)(4)-II	Mercury in other fluorescent lamps not exceeding (per lamp): Lamps emitting mainly light in the ultraviolet spectrum: 15 mg	Already prohibited
				A	RoHS	2(b)(4)-III	Mercury in other fluorescent lamps not exceeding (per lamp): Emergency lamps: 15 mg	Already prohibited
				A	RoHS	3(a)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp): Short length ( $\leq 500$ mm)	Already prohibited
				A	RoHS	3(b)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp): Medium length ( $> 500$ mm and $\leq 1,500$ mm)	Already prohibited
				A	RoHS	3(c)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp): Long length ( $> 1,500$ mm)	Already prohibited
				A	RoHS	4(a)	Mercury in other low pressure discharge lamps (per lamp)	Already prohibited
				B	RoHS	4(a)-I	Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lamp-spectral output to be in the ultraviolet spectrum: up to 15 mg mercury may be used per lamp	2026-08-24
				B	RoHS	4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index $R_a > 80$ : $P \leq 105$ W: 16 mg may be used per burner	2026-08-24

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CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	Mercury/Mercury Compounds	00029	All, except batteries	A	RoHS	4(b)-I	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60: P ≤ 155 W: 30 mg may be used per burner	Already prohibited
				A	RoHS	4(b)-II	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60: 155 W < P ≤ 405 W: 40 mg may be used per burner	Already prohibited
				A	RoHS	4(b)-III	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60: P > 405 W: 40 mg may be used per burner	Already prohibited
				B	RoHS	4(c)-I	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): P ≤ 155 W:20mg	2026-08-24
				B	RoHS	4(c)-II	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): 155 W < P ≤ 405 W: 25 mg	2026-08-24
				B	RoHS	4(c)-III	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): P > 405 W: 25 mg	2026-08-24
				A	RoHS	4(e)	Mercury in metal halide lamps (MH)	Already prohibited
				B	RoHS	4(f)-I	Mercury in other discharge lamps for special purposes not specially mentioned in this Annex	Deadline undetermined
				B	RoHS	4(f)-II	Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required	2026-08-24
				B	RoHS	4(f)-III	Mercury in high pressure sodium vapour lamps used for horticulture lighting	2026-08-24
				B	RoHS	4(f)-IV	Mercury in lamps emitting light in the ultraviolet spectrum	2026-08-24
-	Perfluorooctane sulfonates (PFOS)	00124	Textiles or other coated materials.	B	POPs	PFOS-3	Any mist suppressants for non-decorative hard chromium (VI) plating	No deadline
				B	POPs	PFOS-98	Any mixtures in concentrations less than 10 mg/kg (0.001% by weight), or where the concentration of PFOS is less than 0.1% by weight calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS, any textiles or other coated materials, or where the amount of PFOS is less than 1µg/m <sup>2</sup> of the coated material	No deadline
		00125	All except textiles or other coated materials.	B	POPs	PFOS-3	Any mist suppressants for non-decorative hard chromium (VI) plating	No deadline
				B	POPs	PFOS-98	Any mixtures in concentrations less than 10 mg/kg (0.001% by weight), or where the concentration of PFOS is less than 0.1% by weight calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS, any textiles or other coated materials, or where the amount of PFOS is less than 1µg/m <sup>2</sup> of the coated material	No deadline

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CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	Perfluorooctanoic acid and its salts	00160	All	A	POPs	PFOA-1	Concentrations of PFOA-related compounds equal to or below 20 mg/kg (0,002 % by weight) where they are present in a substance to be used as a transported isolated intermediate within the meaning of Article 3 point 15 (c) of Regulation (EC) No 1907/2006 and fulfilling the strictly controlled conditions set out in Article 18(4)(a) to (f) of that Regulation for the production of fluorochemicals with a perfluoro carbon chain equal to or shorter than 6 atoms.	Already prohibited
				A1	POPs	PFOA-3	Photolithography or etch processes in semiconductor manufacturing	2025-01-04
				A1	POPs	PFOA-4	Photographic coatings applied to films	2025-01-04
				A1	POPs	PFOA-6	Invasive and implantable medical devices	2025-01-04
				B	POPs	PFOA-8	Perfluorooctyl bromide containing perfluorooctyl iodide for the purpose of producing pharmaceutical products.	No deadline
				B	POPs	PFOA-12	concentrations of PFOA and its salts and/or PFOA-related compounds equal to or below 2 mg/kg (0,0002 % by weight) where they are present in medical devices other than invasive devices and implantable devices	No deadline
				B	POPs	PFOA-13	PFOA and its salts equal to or below 1 mg/kg (0,0001 % by weight) where they are present in polytetrafluoroethylene (PTFE) micropowders that are transported or treated for the purpose to reduce the concentration of PFOA and its salts below the limit of 0,025 mg/kg (0,0000025 % by weight).	No deadline
				B	POPs	PFOA-98	Concentrations of PFOA or any of its salts equal to or below 0,025 mg/kg (0,0000025 % by weight) where they are present in substances, mixtures or articles. Or concentrations of any individual PFOA-related compound or a combination of PFOA-related compounds equal to or below 1 mg/kg (0,0001 % by weight) where they are present in substances, mixtures or articles.	No deadline
-	PFOA-related compounds	00161	All	A	POPs	PFOA-1	Concentrations of PFOA-related compounds equal to or below 20 mg/kg (0,002 % by weight) where they are present in a substance to be used as a transported isolated intermediate within the meaning of Article 3 point 15 (c) of Regulation (EC) No 1907/2006 and fulfilling the strictly controlled conditions set out in Article 18(4)(a) to (f) of that Regulation for the production of fluorochemicals with a perfluoro carbon chain equal to or shorter than 6 atoms.	Already prohibited
				A1	POPs	PFOA-3	Photolithography or etch processes in semiconductor manufacturing	2025-01-04
				A1	POPs	PFOA-4	Photographic coatings applied to films	2025-01-04

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CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	PFOA-related compounds	00161	All	A1	POPs	PFOA-6	Invasive and implantable medical devices	2025-01-04
				B	POPs	PFOA-8	Perfluorooctyl bromide containing perfluorooctyl iodide for the purpose of producing pharmaceutical products.	No deadline
				B	POPs	PFOA-12	concentrations of PFOA and its salts and/or PFOA-related compounds equal to or below 2 mg/kg (0,0002 % by weight) where they are present in medical devices other than invasive devices and implantable devices	No deadline
				B	POPs	PFOA-13	PFOA and its salts equal to or below 1 mg/kg (0,0001 % by weight) where they are present in polytetrafluoroethylene (PTFE) micropowders that are transported or treated for the purpose to reduce the concentration of PFOA and its salts below the limit of 0,025 mg/kg (0,000025 % by weight).	No deadline
				B	POPs	PFOA-98	Concentrations of PFOA or any of its salts equal to or below 0,025 mg/kg (0,000025 % by weight) where they are present in substances, mixtures or articles. Or concentrations of any individual PFOA-related compound or a combination of PFOA-related compounds equal to or below 1 mg/kg (0,0001 % by weight) where they are present in substances, mixtures or articles.	No deadline
-	Halogenated Flame Retardants	00171	enclosure and stand of electronic displays, including televisions, monitors and digital signage displays with a screen area greater than 100 square centimetres	B	ErP	HFR-2	Projectors	No deadline
				B	ErP	HFR-3	All-in-one video conference systems	No deadline
				B	ErP	HFR-4	Medical displays	No deadline
				B	ErP	HFR-5	Virtual reality headsets	No deadline
				B	ErP	HFR-6	Displays integrated or to be integrated into products listed into Article 2, point 3(a) and point 4 of Directive 2012/19/EU	No deadline
				B	ErP	HFR-7	Displays that are components or subassemblies of products covered by implementing measures adopted under Directive 2009/125/EC	No deadline
				B	ErP	HFR-8	Industrial displays Note 1	No deadline
-	C9-C14 PFCAs and their salts	00182	All	B	REACH Annex XVII	PFCA-1	C9-C14 PFCAs and their salts and C9-C14 PFCA related substances, where they are present in a substance to be used as a transported isolated intermediate, provided that the conditions are met for the manufacturing of fluorochemicals with a perfluoro carbon chain length equal to or shorter than 6 atoms.	No deadline



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CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	C9-C14 PFCAs and their salts	00182	All	A	REACH Annex XVII	PFCA-2	(i) Textiles for oil- and water-repellency for the protection of workers from dangerous liquids that comprise risks to their health and safety; (ii) the manufacture of polytetrafluoroethylene (PTFE) and polyvinylidene fluoride (PVDF) for the production of: - high performance, corrosion resistant gas filter membranes, water filter membranes and membranes for medical textiles; - industrial waste heat exchanger equipment; - industrial sealants capable of preventing leakage of volatile organic compounds and PM 2,5 particulates	Already prohibited
				A1	REACH Annex XVII	PFCA-3	(i) photolithography or etch processes in semiconductor manufacturing (ii) photographic coatings applied to films (iii) invasive and implantable medical devices	2025-01-05
				A1	REACH Annex XVII	PFCA-4	The can coating for pressurised metered-dose inhalers	2028-02-26
				A	REACH Annex XVII	PFCA-5	(a) semiconductors on their own; (b) semiconductors incorporated in semi-finished and finished electronic equipment	Already prohibited
				A1	REACH Annex XVII	PFCA-6	Semiconductors used in spare or replacement parts for finished electronic equipment placed on the market before 31 December 2023.	2030-06-30
				B	REACH Annex XVII	PFCA-7	C9-C14 PFCAs in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups.	No deadline
				B	REACH Annex XVII	PFCA-8	The sum of C9-C14 PFCAs equal to or below 1000 ppb where these are present in PTFE micro powders produced by ionising irradiation or by thermal degradation, as well as in mixtures and articles for industrial and professional uses containing PTFE micro powders.	No deadline
				B	REACH Annex XVII	PFCA-98	the sum of C9-C14 PFCAs and their salts or 260 ppb for the sum of C9-C14 PFCA-related substances.	No deadline
				B	REACH Annex XVII	PFCA-1	C9-C14 PFCAs and their salts and C9-C14 PFCA related substances, where they are present in a substance to be used as a transported isolated intermediate, provided that the conditions are met for the manufacturing of fluorochemicals with a perfluoro carbon chain length equal to or shorter than 6 atoms.	No deadline

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CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
-	C9-C14 PFCA related substances	00183	All	A	REACH Annex XVII	PFCA-2	(i) Textiles for oil- and water-repellency for the protection of workers from dangerous liquids that comprise risks to their health and safety; (ii) the manufacture of polytetrafluoroethylene (PTFE) and polyvinylidene fluoride (PVDF) for the production of: - high performance, corrosion resistant gas filter membranes, water filter membranes and membranes for medical textiles; - industrial waste heat exchanger equipment; - industrial sealants capable of preventing leakage of volatile organic compounds and PM 2,5 particulates	Already prohibited
				A1	REACH Annex XVII	PFCA-3	(i) photolithography or etch processes in semiconductor manufacturing (ii) photographic coatings applied to films (iii) invasive and implantable medical devices	2025-01-05
				A1	REACH Annex XVII	PFCA-4	The can coating for pressurised metered-dose inhalers	2028-02-26
				A	REACH Annex XVII	PFCA-5	(a) semiconductors on their own; (b) semiconductors incorporated in semi-finished and finished electronic equipment	Already prohibited
				A1	REACH Annex XVII	PFCA-6	Semiconductors used in spare or replacement parts for finished electronic equipment placed on the market before 31 December 2023.	2030-06-30
				B	REACH Annex XVII	PFCA-98	the sum of C9-C14 PFCAs and their salts or 260 ppb for the sum of C9-C14 PFCA-related substances.	No deadline
1163-19-5	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	00064	All	A	TSCA	DecaBDE-2	Wire and cable insulation in nuclear power generation facilities	Already prohibited
				A	TSCA	DecaBDE-3	Parts installed in and distributed as part of new aerospace vehicles	Already prohibited
				A	TSCA	DecaBDE-4	Replacement parts for motor vehicles	Already prohibited
				A	TSCA	DecaBDE-5	Plastic shipping pallets manufactured prior March 8, 2021.	Already prohibited
				A	TSCA	DecaBDE-6	For recycling of decaBDE-containing plastic from products or articles and decaBDE-containing products or articles made from such recycled plastic	Already prohibited
68937-41-7	Phenol, Isopropylated Phosphate (3:1) (PIP (3:1))	00174	All	A1	TSCA	PIP-2	Adhesives and sealants	2024-07-07
				B	TSCA	PIP-3	Hydraulic fluids either for the aviation industry or military specifications for safety and performance where no alternative chemical	No deadline
				B	TSCA	PIP-4	Lubricants and greases	No deadline
				B	TSCA	PIP-5	New and replacement parts for motor and aerospace vehicles	No deadline
				B	TSCA	PIP-6	Intermediate in a closed system to produce cyanoacrylate adhesives	No deadline
				B	TSCA	PIP-7	Specialized engine air filters for locomotive and marine applications	No deadline

Attachment 2. Exempted Application List

CAS No/ Substance group ID	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Management Classification	Usage code		Description	Time of Total elimination
					Laws & regulations	Code		
68937-41-7	Phenol, Isopropylated Phosphate (3:1) (PIP (3:1))	00174	All	B	TSCA	PIP-8	Plastic recycled from PIP (3:1)-containing plastic, where no new PIP (3:1) is added during the recycling process	No deadline
				B	TSCA	PIP-9	Products or articles made from recycled PIP (3:1)-containing plastic, where no new PIP (3:1) was added during the production of the products or articles made of recycled plastic.	No deadline