



# Management Criteria for Regulated Chemicals

Version 5.1, July 2025

OMRON Corporation

Device and Module Solutions Company

## 1. Purpose

This document specifies the scope covered by “*Certificate of Non-inclusion for Prohibited Substances in Products*” (hereinafter, “Certificate of Non-inclusion”) issued by Device and Module Solutions Company of OMRON (hereinafter, “OMRON”).

## 2. Scope

This document applies to OMRON products (products and parts (including accessories and individual packaging materials)) certified and covered by Certificate of Non-inclusion issued by OMRON.

This document is intended for products at the time of shipment, excluding products processed or contaminated after the shipment or during distribution.

## 3. Restrictions

### 3.1. Regulated Substances

- (1) Attachment 2, “*List of Regulated Chemical Substances*,” lists prohibited chemicals rated as Rank-A
- (2) Attachment 3, “*List of Exempted Applications*,” lists exempted uses of the prohibited chemicals
- (3) For the reference substances of Item (1) substance groups, refer to IEC62474 RSL. It can be downloaded from:  
<http://std.iec.ch/iec62474/iec62474.nsf>

### 3.2. Designation of Regulated Chemicals

Based on “IEC62474 for electrical and electronic components” and etc, regulated chemical substances are designated and rated on chemSHERPA.

Rank A (prohibited substances/applications)

Substances whose content is already banned by laws and regulations, or substances/applications designated as banned to use by OMRON originally.

Relative laws and regulations are listed in Attachment 2, “*List of Regulated Chemical Substances*.”

## Attachment 1. Terms and Definitions

### 1. Regulated chemicals /Regulated chemical substances

Chemical substances whose use for or in products is prohibited or restricted, or whose contents shall be identified by laws and regulations in countries, or chemical substances whose contents and usage are identified and restricted by OMRON voluntarily due to their hazardous properties.

### 2. Contain a chemical or use of a chemical

When the content of a chemical substance in a Part or material is more than the level specified by the content determination criterion, it is determined that the chemical is contained in the Part or material. The decision is made also based on whether or not the chemical is intentionally used, whether or not its concentration exceeds threshold values, or whether or not its use is restricted.

Refer to Attachment 2, "*List of Restricted Chemical Substances*" and Attachment 3, "*List of Exempted Applications*" for details of the determination process.

### 3. Non-inclusion

Non-inclusion of a chemical substance means that the content of the chemical substance is less than the threshold value specified by the content determination criteria, including cases where the chemical is not intentionally used, where its concentration is less than or equivalent to the threshold concentration values, or where the chemicals is not intended for restricted uses.

Even if a restricted chemical is used in a production process for a product, "non-inclusion" of the chemical can be determined unless the chemical remains in the product.

(For example, when a volatile solvent is used to clean a component, the solvent will not remain with or in the component, and therefore you can determine "non-inclusion" of the chemical substance.)

### 4. Content determination criteria

The content determination criteria determine whether the content of chemical substances exceeds respectively regulated levels or not. The criteria specify restricted uses and applicable threshold values, based on regulatory requirements, international standards, and other relative regulations.

### 5. Intentional use

Intentional use of chemicals refers to intentionally adding, filling or applying restricted chemicals for the purpose of continuously sustaining functionality or quality of products, parts or materials.

### 6. homogeneous material

Homogeneous material means a material of "uniform composition throughout" that cannot be mechanically disjointed or separated into different materials (by mechanical actions such as unscrewing, cutting, crushing, grinding and abrasive processes).

Examples of homogeneous materials include different types of plastics, ceramics, glasses, metals, plating, paper, unpopulated boards, resins, and coating.

### 7. Articles

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).

### 8. IEC 62474

IEC 62472, standing for the International Electrotechnical Commission (IEC) 62474 Material Declaration Standard (for the electrical and electronics industry), specifies procedures, formats and other details required for material declarations of products supplied in the electrical and electronics industry. Substances and substance groups satisfying this standard are uploaded to the IEC 62474 database.

#### 9. chemSHERPA

This is a communication scheme used for sharing information of chemicals contained in products throughout the supply chain. The scheme was developed by the Ministry of Economy, Trade and Industry (METI) of Japan, and is maintained and managed by the Joint Article Management Promotion-consortium (JAMP).

## Attachment 2. List of Regulated Chemical Substances

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

Cautions :

Note 1 The ID is defined in IEC62474DSL. IEC62474DSL is a list of declarable substance groups and declarable substances specified by IEC62474. It can be downloaded from:

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

Note 2 The "Reporting Level" means the threshold level for concentrations which are calculated by dividing the content of the substance by the weight of the product, homogeneous material, or constituent part containing the substance (denominator for calculating the content rate).

The terms, Part, and Material, indicated in the List mean the following, respectively.

Product = OMRON Part = constituent part, Articles , Material = Homogeneous material

Note 3 Number deleted.

Note 4 The substance / substance group has exempted applications. Refer to Attachment 3.

Note 5 As the threshold level is indicated as the content rate of the subject element, the calculation of content rates is based on the subject element's conversion factor.

Note 6 Although not included in "Compliance" of chemSHERPA, Omron has added the requirement, including applications, threshold values and exempted applications, based on laws and regulations.

Note 7 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), Mineral oil aromatic hydrocarbons comprising from 1 to 7 aromatic rings (MOAH), Mineral oil aromatic hydrocarbons comprising from 3 to 7 aromatic rings (MOAH), and 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 8 The statement, "Prolonged skin contact is evident," means that the subject part or material in contact with the skin will fail the EN 1811 test.

Examples includes the following:

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 9 The following nine product types are subject to the reporting requirement. Report only when 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

Note 10 Packaging materials refer to materials used for transportation, buffering, and storage of OMRON products. All materials such as paper and plastic are eligible. Specifically, product exterior boxes, bags, cushioning materials, and labels attached to them are applicable.

Note 11 For examples of the substance group's substances, refer to IEC62474 RSL. IEC62474 RSL is a list of reference substances specified by IEC62474. It can be downloaded from:

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

Note 12 Tris(2-chloroethyl) phosphate (TCEP) is substance that OMRON specifically self-added.

The content of this substance shall be judged based on OMRON's proprietary content Judgement criteria, rather than on chemSHERPA compliance.

## A: Prohibited substances/applications (57 substances)

No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshld / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
1	-	Asbestos	A	00003	All	Intentionally added [ReportingLevel:Product]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Toxic Substances Control Act (TSCA); [Switzerland] Act of Reduction of Risks in Treatment of Specified Hazardous Substances, Preparations, and Articles in Switzerland (ChemRRV) Swiss Ordinance 814.81
2	-	Azocolourants and azodyes which form certain aromatic amines	A	00004	Textiles and Leather	Intentionally added [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
3	-	Cadmium/Cadmium compounds	A Note 4	00010	All, except batteries	0.01 wt% (100 ppm) of total Cd in homogenous material [ReportingLevel:Material] Note 5	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			A Note 6	00011	(1) Alkali /Manganese / nickel metal hydride batteries excluding button batteries	0.001% (10 ppm) by weight in battery (10ppm) [ReportingLevel:Part] Note 5	[Korea (the Republic of)] Quality Management and Manufactured Product Safety Management Law (Battery Regulation)
			A Note 6	00011	All batteries, except above (1)	0.002% (20 ppm) by weight in battery (20ppm) [ReportingLevel:Part] Note 5	[EU] Battery Directive 2006/66/EC
			A	00166	All video display devices, with a screen size of greater than four inches except the following 1. Products for industrial applications 2. Products for medical applications 3. Products for commercial applications 4. EU RoHS-compliant products Note 9	0.01 wt% (100 ppm) of total Cd in homogenous material [ReportingLevel:Material] Note 5	[USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575

No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshld / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
4	-	Chromium (VI) Compounds	A	00012	All	0.1 wt% (1000 ppm) of total Cr+6 in homogenous material [ReportingLevel:Material] Note 5	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources
			A	00167	All video display devices, with a screen size of greater than four inches except the following 1. Products for industrial applications 2. Products for medical applications 3. Products for commercial applications 4. EU RoHS-compliant products Note 9	0.1 wt% (1,000 ppm) of total Cr+6 in homogenous material [ReportingLevel:Material] Note 5	[USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
5	-	Dibutyltin (DBT) compounds	A	00014	All	0.1 wt% (1,000 ppm) of tin in the part [ReportingLevel:Part] Note 5	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
6	-	Diocetyl tin (DOT) compounds	A	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 wt% (1,000 ppm) of tin in the part [ReportingLevel:Part] Note 5	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
7	-	Hexabromocyclododecane (HBCDD)	A	00020	All	Intentionally added or 0.01 wt% (100 ppm) in article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004
8	-	Lead/Lead Compounds	A Note 4	00021	All, except batteries	0.1 wt% (1,000 ppm) of total Pb in homogenous material [ReportingLevel:Material] Note 5	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII



No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshld / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
8	-	Lead/Lead Compounds	A	00022	Consumer products designed or intended primarily for children 12 years of age or younger	0.01 wt% (100 ppm) [ReportingLevel:Product] Note 5	[USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
			A	00023	Paint and similar surface coatings of toys and other articles intended for use by children	0.009 wt% (90 ppm) in surface coating material [ReportingLevel:Material] Note 5	[USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
			A	00024	Cables/cords with thermoset or thermoplastic coatings	0.03 wt% (300 ppm) in surface coating material [ReportingLevel:Material] Note 5	[USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
			A Note 6	00025	(1) Alkali batteries (except button batteries)	0.004 wt% (40 ppm) in battery [ReportingLevel:Part] Note 5	[China] Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries GB 24427-2009
			A Note 6	00025	Alkali batteries (Button batteries) or Manganese batteries	0.1wt% (1,000 ppm) in battery [ReportingLevel:Part] Note 5	Brazil Conama401/08
			A Note 6	-	Portable batteries (excluding portable zinc-air button batteries)	0.01 mass% of battery (100ppm) [ReportingLevel:Product Part] Note 5	[EU] Battery Regulation (EU) 2023/1542
			A	00168	All video display devices, with a screen size of greater than four inches except the following 1. Products for industrial applications 2. Products for medical applications 3. Products for commercial applications 4. EU RoHS-compliant products Note 9	0.1 wt% (1,000 ppm) of total Pb in homogenous material [ReportingLevel:Material] Note 5	[USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575

No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshld / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
9	-	Mercury/Mercury Compounds	A Note 4	00029	All, except batteries	Intentionally Added or 0.1 wt% (1,000 ppm) of total Hg in homogenous material [ReportingLevel:Material] Note 5	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [Canada] Products containing Mercury Regulations SOR/2014-254
			A	00030	Batteries	Intentionally added or 0.0001 wt% (1 ppm) in battery [ReportingLevel:Part] Note 5	[EU] Battery Directive 2006/66/EC; [China] Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries GB 24427-2009; [Taiwan (Province of China)] Restrictions on the Manufacture, Import, and Sale of Dry Cell Batteries; [Korea (the Republic of)] Quality Management and Manufactured Product Safety Management Law (Battery Regulation); [USA New York] Environmental Conservation Law, Battery management and disposal § 27-0719
			A	00132	Batteries	0.0005 wt% (5 ppm) of total Hg in homogenous material [ReportingLevel:Material] Note 5	[Canada] Products containing Mercury Regulations SOR/2014-254
			A	00169	All video display devices, with a screen size of greater than four inches except the following 1. Products for industrial applications 2. Products for medical applications 3. Products for commercial applications 4. EU RoHS-compliant products Note 9	0.1 wt% (1,000 ppm) of total Hg in homogenous material [ReportingLevel:Material] Note 5	[USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
10	-	Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)	A	00032	All	Intentionally Added [ReportingLevel:Product]	[EU] Regulation on substances that deplete the ozone layer (EC) No. 1005/2009; [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

No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshld / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
11	-	Perfluorooctane sulfonates (PFOS)	A Note 4	00124	Textiles or other coated materials.	Intentionally added or 1 microgram/m2 in coated material [ReportingLevel:Material]	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
			A Note 4	00125	All except textiles or other coated materials.	Intentionally added or 0.1 wt% (1,000 ppm) in the part (as the sum of PFOS) [ReportingLevel:Material]	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
12	-	Phthalates, Selected Group 1 (DEHP, DBP, BBP, DIBP)	A	00036	Children's toy or child care article	0.1 wt% (1,000 ppm) as the sum of the phthalate concentrations in plasticized material [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
			A Note 6	-	All products except for the following(Including packaging materials): - 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 wt% (1,000 ppm) as the sum of the phthalate concentrations in plasticized material [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
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 wt% (1,000 ppm) as the sum of the phthalate concentrations in plasticized material [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
14	-	Polybrominated biphenyls (PBB)	A	00044	All	0.1 wt% (1,000 ppm) in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources

No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshld / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
15	-	Polybrominated diphenyl ethers (PBDE)	A	00045	All	Intentionally added or 0.1 wt% (1,000 ppm) in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [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] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [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 wt% (50ppm) in material [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
18	-	Polychlorinated naphthalenes	A	00048	All	Intentionally added [ReportingLevel:Product]	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [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 Title 10 CFR Part 20; [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 2013/59/Euratom
20	-	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	A	00052	All	Intentionally added or 0.1 wt% (1,000 ppm) in article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Norway] Regulations relating to restrictions on the manufacture, import, export, sale and use of chemicals and other products hazardous to health and the environment (Consumer Product Regulations) FOR-2004-06-01-922; [Switzerland] Act of Reduction of Risks in Treatment of Specified Hazardous Substances, Preparations, and Articles in Switzerland (ChemRRV) Swiss Ordinance 814.81

No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshld / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
21	-	Tri-substituted organostannic compounds	A	00055	All	Intentionally added or 0.1 wt% (1,000 ppm) of tin in the part [ReportingLevel:Part] Note 5	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [Norway] Regulations relating to restrictions on the manufacture, import, export, sale and use of chemicals and other products hazardous to health and the environment (Consumer Product Regulations) FOR-2004-06-01-922
22	-	Nickel/Nickel Compounds	A Note 6	00031	when prolonged skin contact is evident Note 8	Intentionally Added [ReportingLevel:Product]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
23	-	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1 6,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	A Note 6	00147	All products except for replacement parts and repairs for the following items: · Motor vehicles · Stationary industrial machines · Marine, garden, forestry and outdoor power equipment · Instruments for analysis, measurements, control, monitoring, testing, production and inspection · Medical devices · In-vitro diagnostic devices	Intentionally added	POPs Convention
24	-	Perfluorooctanoic acid and its salts	A Note 4	00160	All	Intentionally Added or 0.0000025 wt% (25ppb) of PFOA including its salts in article or mixture [ReportingLevel:Article, Mixture]	[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [Korea (the Republic of)] Persistent Organic Pollutants Control Act
25	-	PFOA-related compounds	A Note 4	00161	All	Intentionally Added or 0.0001 wt% (1ppm) of one or combined PFOA-related compounds, in article or mixture [ReportingLevel:Article, Mixture]	[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Korea (the Republic of)] Persistent Organic Pollutants Control Act
26	-	Halogenated Flame Retardants	A Note 4	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 (EU) 2019/2021 laying down ecodesign requirements for electronic displays

No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshld / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
27	-	C9-C14 PFCAs and their salts	A Note 4	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 (EC) No.1907/2006 ANNEX XVII
28	-	C9-C14 PFCA-related substances	A Note 4	00183	All	0.000026 mass% for the sum of C9-C14 PFCA-related substances in Article or Mixture [ReportingLevel:Article, Mixture]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
29	1163-19-5	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	A	00064	All	Intentionally added or 0.1 wt% (1,000 ppm) in article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [USA] Toxic Substances Control Act (TSCA)
30	117-81-7	Bis (2-ethylhexyl)phthalate (DEHP)	A	00038	All	0.1 wt% (1,000 ppm) in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation
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 wt% (1 ppm) in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 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 wt% in plastic or rubber [ReportingLevel:Material]	
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 wt% of in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
32	205-82-3	Benzo[j]fluoranthene	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 wt% in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
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 wt% in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII

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33	205-99-2	Benzo[b]fluoranthene	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 wt% in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 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 wt% in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 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 wt% in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
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 wt% in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 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 wt% in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII

No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshold / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
36	25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	A Note 6	00130	All products except for the following: · Parts of motor vehicles · Triacetyl cellulose (TAC) film in polarizers Replacement parts for articles in applications in accordance with the following: · Motor vehicles · Stationary industrial machines · Liquid crystal displays in instruments for analysis, measurements, control, monitoring, testing, production and inspection · Liquid crystal displays in medical and in-vitro diagnostic devices	Intentionally added	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 wt% (1,000 ppm) in article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [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 (EC) No.1907/2006 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 wt% (1 ppm) in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII



No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshld / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
39	50-32-8	Benzo[a]pyrene	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 wt% (0.5 ppm) in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
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 wt% (1 ppm) in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 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 wt% (0.5 ppm) in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
41	56-35-9	Bis(tributyltin) oxide (TBTO)	A	00054	All	Intentionally added or 0.1 wt% (1,000 ppm) in article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [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 wt% (1 ppm) in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 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 wt% (0.5 ppm) in plastic or rubber [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
43	624-49-7	Dimethylfumarate (DMF)	A	00016	All	0.00001 wt% (0.1 ppm) in the part [ReportingLevel:Part]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
44	68937-41-7	Phenol, Isopropylated Phosphate (3:1) (PIP (3:1))	A Note 4	00174	All	Intentionally added [ReportingLevel:Product]	[USA] Toxic Substances Control Act (TSCA)
45	84-69-5	Diisobutyl phthalate (DIBP)	A	00041	All	0.1 wt% (1,000 ppm) in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation
46	84-74-2	Dibutyl phthalate (DBP)	A	00039	All	0.1 wt% (1,000 ppm) in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation

No	CAS No	Substance/Substance group Note 11	Management Classification	Judgement criteria		Threshold (Reporting threshld / Reporting Level Note 2)	Referenced laws & regulations
				ID Note 1	Applications (Reportable applications)		
47	85-68-7	Benzyl butyl phthalate (BBP)	A	00040	All	0.1 wt% (1,000 ppm) in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation
48	-	Heavy metals in Packing materials (lead, cadmium, hexachromium, mercury)	A Note 7	-	Packing materials	Intentionally added or Exceeding 0.01 wt% (100 ppm) of total weight of heavy metals per homogenous material [ReportingLevel:Material] Note 5	94/62/EC (Packaging Waste Directive) • Law in specified US states, Toxics in Packaging
49	9002-86-2	Polyvinyl chloride (PVC) in Packing materials	A Note 7	-	Packing materials	Intentionally added [ReportingLevel:Material]	OMRON's self-regulation
50	115-96-8	Tris(2-chloroethyl) phosphate (TCEP)	A Note12	-	All	0.1 mass% of article [ReportingLevel:Product]	[USA] U.S. Specific State Chlorine Flame Retardant Regulation
51	13674-84-5	Tris(1-chloro-2-propyl)phosphate (TCPP)	A Note 7	-	All	0.1 mass% of article [ReportingLevel:Product]	[USA] U.S. Specific State Chlorine Flame Retardant Regulation
52	13674-87-8	Tris(1,3-dichloro-2- propyl)phosphate (TDCPP)	A Note 7	-	All	0.1 mass% of article [ReportingLevel:Product]	[USA] U.S. Specific State Chlorine Flame Retardant Regulation
53	-	Mineral oil aromatic hydrocarbons comprising from 1 to 7 aromatic rings (MOAH)	A Note 7	-	Packaging materials used in consumer products Note 10	Total MOAH of 1-7 rings 1% by weight (10000ppm) of ink used in packaging [Reporting level: Material]	[France] Mineral Oil Regulations (Ministerial Ordinance dated April 13, 2022)
54	-	Perfluorohexane-1-sulphonic acid and its salts	A	00143	All	Intentionally added or 0.000025 mass% of PFHxS or any of its salts in article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021
55	-	PFHxS-related compounds	A	00205	All	Intentionally added or 0.0001 mass% of one or a combination of PFHxS-related compounds in article [ReportingLevel:Article]	EU Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021
56	133-49-3	Pentachlorothiophenol (PCTP)	A	-	All	1.0 wt% [ReportingLevel:Product]	[USA] Toxic Substances Control Act (TSCA)
57	87-68-3	Hexachlorobutadiene (HCBd)	A	-	All	Intentionally added [ReportingLevel:Product]	[USA] Toxic Substances Control Act (TSCA)

**Attachment 3. Exempted Application List**

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

CAS No	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Usage code		Description
				Laws & regulations	Code	
-	Cadmium/Cadmium compounds	00010	All, except batteries	RoHS	13(b)-(II)	Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex
				RoHS	13(b)-(III)	Cadmium and lead in glazes used for reflectance standards
-	Lead/Lead Compounds	00021	All, except batteries	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
				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
				RoHS	6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 wt%
				RoHS	6(c)	Copper alloy containing up to 4 % lead by weight
				RoHS	7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 wt% or more lead)
				RoHS	7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound
				RoHS	7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher
				RoHS	13(a)	Lead in white glasses used for optical applications
				RoHS	13(b)-(I)	Lead in ion coloured optical filter glass types
				RoHS	13(b)-(III)	Cadmium and lead in glazes used for reflectance standards
				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.

CAS No	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Usage code		Description
				Laws & regulations	Code	
-	Lead/Lead Compounds	00021	All, except batteries	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 (BaSi2O5:Pb)
				RoHS	32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes
				RoHS	34	Lead in cermet-based trimmer potentiometer elements
-	Mercury/Mercury Compounds	00029	All, except batteries	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
				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
				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 Ra > 80: P ≤ 105 W: 16 mg may be used per burner
				RoHS	4(c)-I	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): P ≤ 155 W: 20mg
				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
				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
				RoHS	4(f)-I	Mercury in other discharge lamps for special purposes not specially mentioned in this Annex
				RoHS	4(f)-II	Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required
				RoHS	4(f)-III	Mercury in high pressure sodium vapour lamps used for horticulture lighting
				RoHS	4(f)-IV	Mercury in lamps emitting light in the ultraviolet spectrum
-	Perfluorooctane sulfonates (PFOS)	00124	Textiles or other coated materials.	POPs	PFOS-3	Any mist suppressants for non-decorative hard chromium (VI) plating
				POPs	PFOS-98	Any mixtures in concentrations less than 10 mg/kg (0.001wt%), or where the concentration of PFOS is less than 0.1wt% 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
		00125	All except textiles or other coated materials.	POPs	PFOS-3	Any mist suppressants for non-decorative hard chromium (VI) plating

CAS No	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Usage code		Description
				Laws & regulations	Code	
-	Perfluorooctane sulfonates (PFOS)	00125	All except textiles or other coated materials.	POPs	PFOS-98	Any mixtures in concentrations less than 10 mg/kg (0.001wt%), or where the concentration of PFOS is less than 0.1wt% 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/m2 of the coated material
-	Perfluorooctanoic acid and its salts	00160	All	POPs	PFOA-8	Perfluorooctyl bromide containing perfluorooctyl iodide for the purpose of producing pharmaceutical products.
				POPs	PFOA-12	Concentrations of PFOA and its salts and/or PFOA-related compounds equal to or below 2 mg/kg (0,0002 wt%) where they are present in medical devices other than invasive devices and implantable devices
				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).
				POPs	PFOA-98	Concentrations of PFOA or any of its salts equal to or below 0,025 mg/kg (0,0000025 wt%) 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 wt%) where they are present in substances, mixtures or articles.
-	PFOA-related compounds			POPs	PFOA-8	Perfluorooctyl bromide containing perfluorooctyl iodide for the purpose of producing pharmaceutical products.
				POPs	PFOA-12	Concentrations of PFOA and its salts and/or PFOA-related compounds equal to or below 2 mg/kg (0,0002 wt%) where they are present in medical devices other than invasive devices and implantable devices
				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).
				POPs	PFOA-98	Concentrations of PFOA or any of its salts equal to or below 0,025 mg/kg (0,0000025 wt%) 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 wt%) where they are present in substances, mixtures or articles.
-	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	ErP	HFR-2	Projectors
				ErP	HFR-3	All-in-one video conference systems

CAS No	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Usage code		Description
				Laws & regulations	Code	
-	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	ErP	HFR-4	Medical displays
				ErP	HFR-5	Virtual reality headsets
				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
				ErP	HFR-7	Displays that are components or subassemblies of products covered by implementing measures adopted under Directive 2009/125/EC
				ErP	HFR-8	Industrial displays Note 1
-	C9-C14 PFCAs, their salts	00182	All	REACH Annex XVII	PFCA-1	C9-C14 PFCAs, 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.
				REACH Annex XVII	PFCA-4	The can coating for pressurised metered-dose inhalers
				REACH Annex XVII	PFCA-6	Semiconductors used in spare or replacement parts for finished electronic equipment placed on the market before 31 December 2023.
				REACH Annex XVII	PFCA-7	C9-C14 PFCAs in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups.
				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.
				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.
-	C9-C14 PFCA related substances	00183	All	REACH Annex XVII	PFCA-1	C9-C14 PFCAs, 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.
				REACH Annex XVII	PFCA-4	The can coating for pressurised metered-dose inhalers
				REACH Annex XVII	PFCA-6	Semiconductors used in spare or replacement parts for finished electronic equipment placed on the market before 31 December 2023.
				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.

CAS No	Substance/Substance group	Content criteria_ID	Applications (Reportable applications)	Usage code		Description
				Laws & regulations	Code	
68937-41-7	Phenol, Isopropylated Phosphate (3:1) (PIP (3:1))	00174	All	TSCA	PIP-3	Hydraulic fluids either for the aviation industry or military specifications for safety and performance where no alternative chemical
				TSCA	PIP-4	Lubricants and greases
				TSCA	PIP-5	New and replacement parts for motor and aerospace vehicles
				TSCA	PIP-6	Intermediate in a closed system to produce cyanoacrylate adhesives
				TSCA	PIP-7	Specialized engine air filters for locomotive and marine applications
				TSCA	PIP-8	Plastic recycled from PIP (3:1)-containing plastic, where no new PIP (3:1) is added during the recycling process
				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.