(CH01-0390EN-027)

BROTHER GROUP GREEN PROCUREMENT STANDARD

(Rev.9.5)

August 8, 2024

BROTHER INDUSTRIES, LTD.

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1. Brother Group's Green Procurement

1.1 Purpose

The Brother Group strives to minimize environmental impact in every aspect of our operations in pursuit of sustainable development. We wish to work with suppliers to reduce environmental impact throughout the supply chain. As part of this, we practice green procurement. This means that we purchase goods that do not contain hazardous chemical substances specified by the Brother Group from suppliers who promote environmental conservation activities. The purpose of this standard is to communicate the requirements of the Brother Group to suppliers.

1.2 Scope

This standard applies to the following substances handled in the Brother Group: (Note 1)

- Parts, materials and sub-materials used for products designed, manufactured, and sold by the Brother Group;
- Parts, materials and sub-materials used for products designed and manufactured by the Brother Group for a third party;
- Products designed and manufactured by a third party for the Brother Group and sold under the Brother Group's trade mark;
- Products for sale that incorporate product(s) purchased from another company (or companies);
- Products purchased from another company to be sold "as is";

Note 1) The applicable range and applicable contents may be changed only when an agreement is concluded between a supplier and the Brother Group.

1.3 Definitions

1) Goods

Goods is a general term for parts, materials, sub-materials, products, packaging materials, and the like purchased by the Brother Group.

2) Chemical products

Chemical products are chemical substances or mixtures.

3) Articles

Articles are items for which the particular shape, appearance or design given during manufacturing is a major determinant of end use function, rather than the functions fulfilled by their chemical composition.

4) Contain

Contain means that substances are added to, filled into, mixed into, or adhered to articles regardless of whether it is due to any intentional act or not.

5) Concentration

Concentration refers to the amount of a chemical substance present in a given volume of a homogeneous material that constitutes a part or material.

6) Concentration limit

Concentration limit refers to the maximum concentration of a chemical substance allowed in a homogeneous material that constitutes a part or material.

7) Homogeneous material

Homogeneous material refers to a material that cannot be separated mechanically into more than one material of different properties. For example, in a steel product that has one layer of paint, the steel is a homogeneous material and the paint is a homogeneous material.

8) Impurity
An *impurity* is a substance that is contained in a natural raw material and cannot be removed completely in the process of refinement into an industrial material, a substance generated in the process of synthesis that cannot be removed by technical means, or an outside substance that is mixed in unintentionally in the manufacturing or production processes.

9) Intentional use
Intentional use means that substances are deliberately added to parts or materials, or an added material is used in order to add a certain performance, characteristics and functions, or to maintain processing conditions.

10) Green Procurement Management System
The Green Procurement Management System is a system for investigatingchemical substances in products. It is a feature of B'snet Portal, which is for sharing information between the Brother Group and suppliers.

11) CAS RN®
CAS RN® is an abbreviation of the CAS Registry Number.
The CAS Registry Number in this standard has not been verified by CAS and may be inaccurate.
CAS Registry Numbers have not been verified by CAS and may be inaccurate.

12) New Investigation
New Investigation is an investigation for new part.

13) Re-Investigation
Re-Investigation is an investigation conducted after the version of the chemSHERPA tool is upgraded.

2. Request to Suppliers

1) Compliance with the Brother Group's Green Procurement Standard
Suppliers are requested to comply with the Brother Group Green Procurement Standard. In order to be compliant, suppliers are requested to understand the contents of the Brother Group Green Procurement Standard, and establish and maintain a system to manage the chemical substances in products at suppliers.
We will confirm the management system for chemical substances in products in advance for new suppliers who are starting business with the Brother Group.

2) Submission of "Certificate Concerning Chemical Substances in Products"
All suppliers with transactions at the time of the revision of the Brother Group Green Procurement Standard are requested to re-submit the "Certificate Concerning Chemical Substances in Products" as soon as the Brother Group Green Procurement Standard is revised.
Suppliers who initiate new transactions with the Brother Group are requested to submit the "Certificate Concerning Chemical Substances in Products (CH01-1000)" before starting transactions.

3) Management of Chemical Substances in Products
Suppliers are requested to manage Prohibited Chemical Substances (Level A) as defined in the Brother Group Green Procurement Standard, so that they do not exceed the content standard value.
Conduct investigations on Prohibited Chemical Substances (Level A) and Controlled Chemical Substances (Level B) according to the communication standard of the composition information as defined in the chemSHERPA usage rules.
The investigation shall be conducted based on the information shared through the supply chain.
In order to comply with the Brother Group Green Procurement Standard, provide the latest version of the Brother Group Green Procurement Standard to upstream suppliers as required.

4) Entering Data into the Green Procurement System
Enter the investigation results of the chemical substances in products into the Green Procurement Management System.
Enter the results of the new investigation and re-investigation before delivering the goods.
Moreover, if you have at least one month before delivery of the goods, enter your investigation results into the Green Procurement Management System within one month after an investigation request from the Brother Group.
If the registration of investigation results is delayed, please be sure to contact us in advance.
As a means of contacting us in advance, please use the "Inquiry" function on the B'snet Portal menu.
In addition, if any change occurs in the composition information of chemSHERPA due to a change of material, etc., enter the investigation results of the chemical substances in the product of the changed goods in the Green Procurement Management System before the first delivery of the changed goods after the delivery of the previous part is discontinued. Files created in the chemSHERPA tool can be imported.
Upload a CI file for chemical products and an AI file for articles to the B'snet Portal. Create the file according to chemSHERPA usage rules. When creating the file, chemical composition information is mandatory.Refer to the following site concerning chemSHERPA.
https://chemsherpa.net/chemSHERPA/

5) Document control
Certificates, chemSHERPA files, investigation documents, and measurement data that your company has obtained internally or from upstream suppliers should be retained because we will request submission as supporting data for the investigation results registered in the Green Procurement System.

6) Audits
In order to confirm the management structure of chemical substances in products at suppliers, conduct periodic on-site audits based on written prior notice and the agreement between suppliers and the Brother Group. During an audit, also confirm "5) Document control.".

7) Brother Group X-ray fluorescence analysis and phthalate measurement results
The Brother Group periodically conducts X-ray fluorescence analysis and phthalate measurements. In the case the Brother Group determines necessary, such as if the measured value exceeds the content standard value or if the measured value is significantly different from the inclusion information contained in the Green Procurement System, the Brother group will contact the supplier for verification. When the content standard value is exceeded, we will ask suppliers to promptly investigate the cause and deliver goods with content below the content standard value.

8) Actions when non-compliance occurs
If there is a possibility of prohibited chemical substances being contained beyond the content standard value, immediately contact the Brother Group (Contact: Factory you do business with).
Also, promptly confirm the level of content, and report on the confirmation results.
Furthermore, if content beyond the content standard value is confirmed, immediately specify the cause and extent of impact and report on the results.
In addition, implement recurrence preventive measures including horizontal expansion.
Compliant products should also be delivered promptly.

9) Response to prohibition of containing red phosphorus
Red phosphorous is prohibited from being contained in components that fall under the following.
The Development Department of Brother Industries will contact suppliers of applicable parts separately.
[Target]
Parts in which the Development Department of Brother Industries contacts suppliers separately
[Content Standard Value]
Prohibited to contain

3. Management Criteria for Prohibited Chemical Substances
Management Criteria for prohibited chemical substances regulated by Brother Group are stipulated as follows.

Content Standard Value	Details
Prohibited from intentional use	May not be used intentionally. Communicate with suppliers through the supply chain to confirm that the substances are not being used intentionally.
Prohibited to contain	In addition to being prohibited from intentional use, unintentional use including in the form of contamination or transfer from other goods, impurities, or byproducts are also prohibited. Communicate with suppliers through the supply chain to confirm that the substances are not being used or contained. If it is found as a result of confirmation that the substances are not being used intentionally and if unintentional use has not been found over the entire supply chain, it may be determined that the substances are not included in products.
Prohibited from intentional use, additionally content standard values are specified	In addition to being prohibited from intentional use, concentration in excess of content standard values due to unintentional inclusion is prohibited. Communicate with suppliers through the entire supply chain to confirm that substances are not being used intentionally and the concentration of the substances contained due to unintentional use including in the form of contamination or transfer from other goods, impurities, or byproducts does not exceed the specified content standard values.
Only content standard values are specified	Intentional use and unintentional inclusion in excess of content standard values are prohibited. Communicate with suppliers through the supply chain to confirm that the concentration of the substances contained due to intentional use and those contained due to unintentional use including in the form of contamination or transfer from other goods, impurities, or byproducts do not exceed content standard values.

4. Brother Group Chemical Substances in Products

1) Prohibited Chemical Substances (Level A)

The Brother Group specifies the following chemical substances and chemical substance groups as “prohibited chemical substances (Level A).” Prohibited chemical substances (Level A) include “RoHS” and “prohibited substances excluding RoHS.” Their use is restricted globally, such as by legal restrictions.

1-1) RoHS

Chemical substances/substance groups classified as “RoHS” are regulated to by the RoHS Directive (DIRECTIVE 2011/65/EU) of the EU.

＜List of RoHS＞

	Substances/Substance Group	Content Standard Value
0001	Lead/Lead Compounds	Less than or equal to 0.1% (1000ppm) per homogeneous material However, less than or equal to 0.03% (300 ppm) for cable cords coated with thermosetting or thermoplastic resin (Except exemption items) (Note 2), (Note 3), (Note 4), (Note 5)
0002	Cadmium/Cadmium Compounds	Less than or equal to 0.01% (100ppm) per homogeneous material (Except exemption items) (Note 3), (Note 4), (Note 5)
0003	Hexavalent Chromium /Hexavalent Chromium Compounds	Less than or equal to 0.1% (1000ppm) per homogeneous material. (Except exemption items) (Note 3), (Note 4), (Note 5)
0004	Mercury/Mercury Compounds	Less than or equal to 0.1% (1000ppm) per homogeneous material. (Except exemption items.) (Note 3), (Note 4), (Note 5)
0005	Polybrominated Biphenyls (PBBs)	Less than or equal to 0.1% (1000ppm) per homogeneous material, but prohibited from intentional use.
0006	Polybrominated Diphenylethers (PBDEs)	Less than or equal to 0.1% (1000ppm) per homogeneous material, but prohibited from intentional use.
0007	Bis (2-ethylhexyl)phthalate (DEHP) (Note 6)	Less than or equal to 0.1% (1000ppm) per homogeneous material (Note 7)
0008	Butyl benzyl phthalate (BBP)	Less than or equal to 0.1% (1000ppm) per homogeneous material (Note 7)
0009	Dibutyl phthalate (DBP)	Less than or equal to 0.1% (1000ppm) per homogeneous material (Note 7)
0010	Diisobutyl phthalate (DIBP)	Less than or equal to 0.1% (1000ppm) per homogeneous material (Note 7)

For more detailed information, please refer to “RoHS” in “5. Detailed list of chemical substances/substance groups.”

Note 2: Content standard value of lead/lead compounds
The content standard value for cable cords coated with thermosetting or thermoplastic resin shall be 0.03% (300 ppm) or less, in order to comply with Proposition 65.
However, if the Brother Group determines Proposition 65 does not apply to the corresponding parts, the content standard value shall be less than or equal to 0.1% (1000 ppm).

Note 3: Restrictions of packaging materials and packaging subsidiary materials
Lead, cadmium, hexavalent chromium, and mercury must not be intentionally added to parts, materials, and indirect materials used for packaging materials, which are shipped along with Brother Group's products and any incidental concentration must be less than or equal to 100ppm in sum.

Note 4: The value calculated by metallic conversion shall be applied to compound content.

Note 5: The "exemptions" are specified in Annex III of the EU RoHS Directive.
Refer to "6. EU RoHS Directive Exemptions" for the details of the exempted items.
The delivery deadline to the Brother Group for goods which used EU RoHS Directive Exemptions shall be one year before the deadline defined by the EU RoHS Directive.
However, when there is a request from a supplier, the delivery deadline may be defined separately.

Note 6: Another name: Dioctyl phthalate (DOP)

Note 7: Content standard value of DEHP, BBP, DBP, and DIBP
- Parts, materials and sub-materials used for packaging materials shipped with products of the Brother Group:
The content standard value of DEHP, BBP, DBP, and DIBP in the materials must be less than 0.1% (1,000 ppm) in total.
- Products and parts not applicable to the EU RoHS Directive, and parts used for other than the packaging materials mentioned above:
The content standard value of DEHP, BBP, DBP, and DIBP in plasticized materials must be less than 0.1% (1,000 ppm) in total.
However, regarding products and parts only used for workers in the workplaces of industry and agriculture, or only used outdoors, when plasticized materials do not contact human membrane or do not contact human skin for long hours, this notice is not applicable, and the content standard value of the chemical substances of each DEHP, BBP, DBP, and DIBP must be 0.1% (1,000 ppm) or less.

1-2) Prohibited substances excluding RoHS

Use of chemical substances/substance groups classified as “Prohibited substances excluding RoHS must comply with the laws and regulations of each country worldwide. (Excluding EU RoHS Directive)

＜List of prohibited substances excluding RoHS＞

	Substances/Substance Group	CAS RN®	Content Standard Value
0001	Ozone Depleting Substances (The controlled substances in Montreal Protocol)	-	Prohibited from intentional use
0002	Asbestos	-	Prohibited from intentional use
0003	Certain Azocolourants and Azodyes	-	(1) Azocolourants and Azodyes which may emit aromatic amines by reductive cleavage of one or more azo group: Regarding textile and leather products which may come into direct and prolonged contact with the human skin or oral cavity, it is limited to use less than or equal to 30mg/kg(30ppm) in the dyed part, but. prohibited from intentional use. (Note 8) (2) Dye compounds included in the ” List of Azocolourants”: ・Prohibited from intentional use as a substance. ・Less than or equal to 0.1 % by Weight (1000ppm) per compound (Note 8)
0004	Polychlorinated Biphenyls (PCBs)	-	Prohibited to contain (Note 9)
0005	Polychlorinated Terphenyls (PCTs)	-	Less than or equal to 50mg/kg (50ppm) per homogeneous Material, but prohibited from intentional use
~~0006~~	~~Polychlorinated Naphthalenes (Cl≥3)~~	~~-~~	~~Prohibited to contain~~
0007	Radioactive Substances	-	Prohibited from intentional use
0008	Certain Shortchain Chlorinated Paraffins	-	Less than or equal to 0.1% by weight (1000ppm) per homogeneous material, but prohibited to intentionally use
0009	Tri-substituted organostannic compounds such as Tributyltin (TBT) compounds and Triphenyltin (TPT) compounds	-	Less than or equal to 0.1% by weight (1000ppm) with tin conversion per homogeneous material, but prohibited from intentional use
0010	Tributyltin Oxide (TBTO)	56-35-9	Prohibited to contain (Note 9)
0011	Perfluorooctane sulfonates (PFOS) and its salts	-	Prohibited to contain (Note 9)
0012	Dimetylfumarate (DMF)	624-49-7	Less than or equal to 0.1mg/kg (0.1ppm) in a part, but prohibited from intentional use.
0013	Phenol,2-(2H-benzotriazol-2-yl)-4, 6- bis(1,1-dimethylethyl)	3846-71-7	Prohibited to contain (Note 9)
0014	Dibutyltin (DBT) compounds	-	Less than or equal to 0.1% by weight with tin conversion per homogeneous material or a compound

CAS Registry Numbers have not been verified by CAS and may be inaccurate

	Substances/Substance Group	CAS RN®	Content Standard Value
0015	Dioctyltin (DOT) compounds	-	Less than or equal to 0.1% by weight (1000ppm) with tin conversion per homogeneous material for target products (Note 10)
0016	Formaldehyde	50-00-0	(1) Wooden products and Parts (plyboards, particle boards, etc.): It shall conform to the regulation value by utilizing the designated testing method in accordance with “U.S. California State ATCM (Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products)” （Sections 93120-93120.12, title17, California Code of Regulations） (2) Textile products/parts (string , cloth, etc.) and products/parts which can be considered to come in contact with skin over a long time: Elution amount of formaldehyde shall be less than or equal to 16μg in a 1g of test piece by utilizing the testing method in accordance with the Appendix 1 of “Act on Control of Household Products Containing Harmful Substances” (September 26, 1974: Ordinance of the Ministry of Health, Labor and Welfare No.34) (3) Products/Parts which can be used as a container or a packing material of food products and also considered to directly come in contact with food products: The result must be negative by the testing method based on “Standards and criteria for food and food additives, etc” (Notification No.370 of the Ministry of Health, Labor and Welfare) under “Food Sanitation Law” (December 24, 1947 No.230)
0017	Hexachlorobenzene (HCB)	118-74-1	Prohibited to contain (Note 9)
0018	Hexabromocyclododecane (HBCD)	(Note 11)	Prohibited to contain
0019	Perfluorooctanoic acid(PFOA) and its salts	-	Prohibited to contain (Note 9)
	PFOA related substances (Note 12)	-	Prohibited to contain (Note 9)

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	Substances/Substance Group	CAS RN®	Content Standard Value
0020	Polycyclic-aromatic hydrocarbons (PAH) Benzo[a]pyrene Benzo[e]pyrene Benzo[a]anthracene Chrysene Benzo[b]fluoranthene Benzo[j]fluoranthene Benzo[k]fluoranthene Dibenzo[a,h]anthracene	 50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9 53-70-3	The limit for each PAH is no more than 1 mg/kg (1 ppm) for rubber and plastic components that come into direct and prolonged or short repetitive contact with the human skin or the oral cavity.
~~0021~~	~~Polychlorinated Naphthalenes (Cl ≥2)~~	-	~~Prohibited to contain~~
~~0022~~	~~Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)~~	~~68921-45-9~~	~~Prohibited to contain~~
0023	Polychlorinated Naphthalenes (Cl≧1)	-	Prohibited to contain
0024	Bisphenol A	80-05-7	Less than 0.02% (200ppm) for thermal paper
0025	Phenol, Isopropylated Phosphate (3:1) (PIP(3:1))	68937-41-7	Prohibited to contain (Note13)
0026	Pentachlorothiophenol (PCTP)	133-49-3	(1) Substance; Prohibited to contain (2) Mixtures; Less than or equal to 1% (3) Articles; Less than or equal to 1% in a part
0027	C9-C14 Perfluorocarboxylic acid (PFCAs) and its salts (Note 14)	-	Less than 25 ppb in total of C9-C14 PFCAs and its salts in substances, mixtures, and articles
	C9-C14 Perfluorocarboxylic acid (PFCAs) related substances (Note 14)	-	Less than 260 ppb in total of C9-C14 PFCAs related substances in substances, mixtures, and articles
0028	Perfluorohexanesulfonic acid (PFHxS) and its salts (Note 15)	-	Prohibited to contain (Note 9)
	Perfluorohexane sulfonic acid (PFHxS) related substances (Note 15)	-	Prohibited to contain (Note 9)
0029	UV-328	25973-55-1	Prohibited to contain (Note 16)
0030	Dechlorane Plus	13560-89-9 135821-74-8 135821-03-3	Prohibited to contain
0031	Perfluorohexanoic acid (PFHxA) and its salts (Note 17)	-	Shall not be used in concentrations equal to or greater than 25 ppb by the sum of PFHxA and its salts measured in the homogeneous materials in the following. (Note 18) (1) Textiles, leather, furs, and hides for the general public (2) Footwear for the general public (3) Paper and cardboard used as food contact materials (4) Mixtures for the general public (5) Cosmetic products

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	Substances/Substance Group	CAS RN®	Content Standard Value
	Perfluorohexanoic acid (PFHxA) related substances (Note 17)	-	Shall not be used in concentrations equal to or greater than 1,000 ppb by the sum of PFHxA related substances measured in the homogeneous materials in the following. (Note 18) (1) Textiles, leather, furs, and hides for the general public (2) Footwear for the general public (3) Paper and cardboard used as food contact materials (4) Mixtures for the general public (5) Cosmetic products

For details of the Chemical Substances/Chemical Substance Group, refer to "1-2) Prohibited substance excluding RoHS" of "5. Detailed List of Chemical Substances/Chemical Substance Groups."

Note 8: Restrictions on Certain Azocolourants and Azodyes
The substances listed below are classified as aromatic amines.

Chemical substance name	CAS RN®
Biphenyl-4-ylamine	92-67-1
Benzidine	92-87-5
4-Chloro-o-toluidine	95-69-2
2-Naphthylamine	91-59-8
o-Aminoazotoluene	97-56-3
5-Nitro-o-toluidine	99-55-8
4-Chloroaniline	106-47-8
4-Methoxy-m-phenylenediamine	615-05-4
4,4'-Methylenedianiline	101-77-9
3,3'-dichlorobenzidine	91-94-1
3,3'-Dimethoxybenzidine	119-90-4
3,3'-Dimethylbenzidine	119-93-7
4,4'-Methylenedi-o-toluidine	838-88-0
6-Methoxy-m-toluidine	120-71-8
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4
4,4'-Oxydianiline	101-80-4
4,4'-Thiodianiline	139-65-1
o-Toluidine	95-53-4
4-Methyl-m-phenylenediamine	95-80-7
2,4,5-Trimethylaniline	137-17-7
o-Anisidine	90-04-0
4-Amino azobenzene	60-09-3

List of Azocolourants

Chemical substance name	CAS RN®
A mixture of: disodium(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)(1-(5-chloro-2-oxidophenylazo)-2-naphtholato) chromate(1-); trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato) chromate(1-)	Not allocated Component 1: CAS RN®:118685-33-9 $C_{39}H_{23}ClCr\text{-}N_7O_{12}S.2Na$ Component 2: $C_{46}H_{30}CrN_{10}\text{-}O_{20}S_2.3Na$

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Note 9: Management of By-product Class I Specified Chemical Substances
The use of the following Class I Specified Chemical Substances which are included in prohibited substances other than RoHS, and are regulated by the Chemical Substances Control Law of Japan are acceptable only when the substances comply with the Chemical Substances Control Law of Japan, and satisfy the following (1) and (2) as a use of those by-products Class I Specified Chemical Substances.

- ･0017 Hexachlorobenzene (HCB)
- ･0004 Polychlorinated Biphenyls (PCBs)
- ･0010 Bis(tributyltin) = Oxide (TBTO)
- ･0011 PFOS Perfluorooctane Sulfonic Acid and its salts
- ･0013 Phenol, 2-(2H-1,2,3−benzotriazol-2-yl)-4, 6-bis(1, 1-dimethylethyl)
- ･0019 PFOA (Perfluorooctanoic acid) and its salts
  PFOA related substances
- ･0028 Perfluorohexanesulfonic acid (PFHxS) and its salts
  Perfluorohexane sulfonic acid (PFHxS) related substances

However, if these by-product Class I Specified Chemical Substances are used, please notify the "content of the by-product Class I Specified Chemical Substances," and the "name of the by-product Class I Specified Chemical Substances" to the Brother Group.

(1) The business operators voluntarily set the upper limit (voluntarily set concentration limit) of the content in the chemical substances of the Class I Specified Chemical Substances based on the principle of Best Available Technology /Techniques (BAT), and submits reports to the Ministry of Health, Labour and Welfare, Ministry of Economy, Trade and Industry, and the Ministry of the Environment (hereinafter the "three ministries") along with an explanation of the measures taken to reduce the content of the Class I Specified Chemical Substances, etc.

(2) The business operators who voluntarily set the concentration limit and submitted reports to the three ministries, shall always confirm that the content of the Class I Specified Chemical Substances in the chemical substances manufactured on their own or imported does not exceed the voluntarily set concentration limit, and also make an effort to reduce the content. The reports on the management conditions of the voluntarily set concentration limit submitted to the three ministries has been updated according to a request from the three ministries, and reviewed as required according to the conditions.

Among the hexachlorobenzenes (HCBs), the use of by-product HCB that is slightly included in tetrachlorophthalic anhydride (TCPA), pigments or coloring agents (TPCA derived pigments) using TCPA as a raw material, and pigments or coloring agents (phthalocyanine pigments) manufactured with chlorinated pigment blue-15 are acceptable, only when item 2 of the "Management of Chemical Substances Containing a Class 1 Specified Chemical Substance (Notice)," March 29, 2019, Ministry of Health, Labour and Welfare, Ministry of Economy, Trade and Industry and Ministry of the Environment is satisfied.

Among the polychlorinated biphenyls (PCBs), the use of by-product PCB that is slightly included in some of the organic pigments are acceptable only when item 3 of the "Management of Chemical Substances Containing a Class 1 Specified Chemical Substance (Notice)," March 29, 2019, Ministry of Health, Labour and Welfare, Ministry of Economy, Trade and Industry and Ministry of the Environment is satisfied.

"Management of Chemical Substances Containing a Class 1 Specified Chemical Substance (Notice)," March 29, 2019, Ministry of Health, Labour and Welfare, Ministry of Economy, Trade and Industry and Ministry of the Environment
https://www.meti.go.jp/policy/chemical_management/kasinhou/files/about/class1specified/190329bat_oshirase.pdf

CAS Registry Numbers have not been verified by CAS and may be inaccurate

Note 10: Restrictions on Dioctyltin (DOT) compounds
Target products are textile articles intended to come into contact with skin, gloves, footwear, footwear products intended to come into contact with skin, wall papers, floor materials, childcare articles, and two-component room temperature vulcanization molding kits (RTV-2 molding kits).

Note 11: CAS RN® of Hexabromocyclododecane (HBCD) is as shown below.
25637-99-4, 3194-55-6, 4736-49-6, 65701-47-5, 134237-50-6, 134237-51-7, 134237-52-8, 138257-17-7, 138257-18-8, 138257-19-9, 169102-57-2, 678970-15-5, 678970-16-6, 678970-17-7

Note 12: PFOA Related Substances
- Substances with a linear or branched C_7F_{15}- perfluoroheptyl group directly coupled to other carbon atoms as one of the structural elements (including salts and polymers)
- Substances with a linear or branched C_8F_{17}- perfluorooctyl group as one of the structural elements (including salts and polymers)
- The following substances are excluded from the PFOA related substances.
  - C_8F_{17}-X where, X=F, Cl, Br
  - C_8F_{17}-C(=O) OH, C_8F_{17}-C(=O)O-X' or C_8F_{17}-CF_2-X' where, X' is any group including salts

Note 13: Regulations for Phenol, Isopropylated Phosphate
- The content in lubricants and greases is exempted.

Note 14: Regulations for C9-C14 perfluorocarboxylic acid (PFCAs), its salts, and its related substances
(1) C9-C14 perfluorocarboxylic acid (PFCAs), its salts, and its related substances
- Linear and branched perfluorocarboxylic acid (C9-C14 PFCAs) of the formula C_nF_{2n+1}-C(=O)OH (n = 8, 9, 10, 11, 12, or 13), its salts and any combinations
- Any C9-C14 PFCA-related substance having a perfluoro group with the formula C_nF_{2n+1} (n = 8, 9, 10, 11, 12, or 13) directly bonded to another carbon atom, its salts and any combinations
- Any C9-C14 PFCA-related substance having a perfluoro group with the formula C_nF_{2n+1} (n = 9, 10, 11, 12, 13 or 14) not directly bonded to another carbon atom, its salts and any combinations

However, the following substances are excluded.
- C_nF_{2n+1}-X and any combinations: X = F, Cl, or Br, n = 9, 10, 11, 12, 13 or 14
- C_nF_{2n+1}-C(=O) OX' and its salts (n>13 and X' = any group)

(2) C9-C14 perfluorocarboxylic acid (PFCAs) related substances
- Substances which may possibly be decomposed or converted into C9-C14 PFCAs based on the molecular structure of PFCAs related substances

(3) Exemption of C9-C14 perfluorocarboxylic acid (PFCAs), its salts, and its related substances
- Delivery of semiconductors used as spare parts of electronic equipment marketed by December 31, 2023 to the Brother Group is accepted until December 31, 2029.

(4) Exemption of C9-C14 perfluorocarboxylic acid (PFCAs)
Delivery of substances and mixtures which use C9-C14 perfluorocarboxylic acids (PFCAs) as a constituent, where the total of C9-C14 PFCAs is less than 100 ppb in fluoroplastics and fluoroelastomers containing the perfluoroalkoxyl group to the Brother Group, is accepted.

Note 15) : As one of the structural elements, it contains "$C_6F_{13}S$-", and contains chemical substances that decompose into PFHxS polymers, etc.

CAS Registry Numbers have not been verified by CAS and may be inaccurate

Note 16) : UV-328 exemptions

・For the use of polarizing plates in triacetyl cellulose (TAC) film, delivery to the Brother Group is permitted up to one year prior to the deadline for exemption from the POPs Convention. However, the deadlines for delivery to Brother may change in the future, depending on the exemption deadlines set individually by the parties to the POPs Convention.

Note 17) : Restrictions on perfluorohexanoic acid (PFHxA), its salts and PFHxA related substances

・Perfluorohexanoic acid (PFHxA), its salts and PFHxA related substances

Having a straight-chain or branched perfluoropentyl group with C_5F_{11}- directly bonded to another carbon atom as one of the structural elements, or a straight-chain or branched perfluorohexyl group expressed as C_6F_{13}-.

However, the following substances are excluded:

-C_6F_{14}

-C_6F_{13}-C(=O)OH, C_6F_{13}-C(=O)O-X' or C_6F_{13}-CF_2-X', where X' = any group including salts

-Any substance having a perfluoroalkyl group C_6F_{13}- directly bonded to an oxygen atom, which is one of the non-terminal carbons.

Note 18) Exemption of perfluorohexanoic acid (PFHxA), its salts, and its related substances

- Until August 1, 2025, delivery to the Brother Group is accepted for applications in clothing and related accessories for the general public among (1), and applications of (2), (3), (4), and (5).
- Until August 1, 2026, delivery to the Brother Group is accepted for applications other than in clothing and related accessories for the general public among (1).

2) Controlled chemical substances (Level B)

The Brother Group stipulates chemical substances to be "Controlled Chemical Substances (Level B)," excluding "Prohibited Chemical Substances (Level A)" from the chemSHERPA controlled substances.

Please see the website below for details of chemSHERPA controlled substances and the latest list of such substances.

https://chemsherpa.net

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5. Detailed List of Chemical Substances/Substance Groups
This list does not cover all chemical substances that comprise each prohibited chemical substance (Level A).

1) RoHS

■0001 Lead/Lead Compounds

Substance Name	CAS RN®	Metal Conversion Factor
Lead	7439-92-1	1.000
Lead(II) sulfate	7446-14-2	0.683
Lead(II) carbonate	598-63-0	0.775
Lead(II) chromate	7758-97-6	0.641
Lead chromate molybdate sulfate (C.I.Pigment Red 104)	12656-85-8	-
Lead hydroxidcarbonate	1319-46-6	0.801
Lead acetate	301-04-2	0.637
Lead (II) acetate, trihydrate	6080-56-4	0.546
Lead phosphate	7446-27-7	0.766
Lead selenide	12069-00-0	0.724
Lead (IV) oxide	1309-60-0	0.866
Lead (II,IV) oxide	1314-41-6	0.907
Lead (II) sulfide	1314-87-0	0.866
Lead (II) oxide	1317-36-8	0.928
Lead(II) carbonate basic	1319-46-6	0.801
Lead hydroxidcarbonate	1344-36-1	0.801
Lead(II) phosphate	7446-27-7	0.766
C.I.Pigment Yellow 34	1344-37-2	-
Lead(II) titanate	12060-00-3	0.686
Lead sulfate,sulphuric acid, lead salt	15739-80-7	-
Lead sulphate,tribasic	12202-17-4	0.850
Lead stearate	1072-35-1	0.268
Other lead compounds	-	-

■0002 Cadmium/Cadmium Compounds

Substance Name	CAS RN®	Metal Conversion Factor
Cadmium	7440-43-9	1.000
Cadmium oxide	1306-19-0	0.875
Cadmium sulfide	1306-23-6	0.778
Cadmium chloride	10108-64-2	0.613
Cadmium sulfate	10124-36-4	0.539
Other cadmium compounds	-	-

■0003 Hexavalent Chromium/Hexavalent Chromium Compounds

Substance Name	CAS RN®	Metal Conversion Factor
Chromium (VI) oxide	1333-82-0	0.520
Barium chromate	10294-40-3	0.205
Calcium chromate	13765-19-0	0.333
Chromium trioxide	1333-82-0	0.520
Lead (II) chromate	7758-97-6	0.161
Lead chromate molybdate sulfate (C.I.Pigment Red 104)	12656-85-8	-
C.I.Pigment Yellow 34	1344-37-2	-
Sodium chromate	7775-11-3	0.321
Sodium dichromate	10588-01-9	0.397
Strontium chromate	7789-06-2	0.255
Potassium dichromate	7778-50-9	0.353
Potassium chromate		
Zinc chromate		
Other hexavalent chromium compounds	-	-

■0004 Mercury/Mercury Compounds

Substance Name	CAS RN®	Metal Conversion Factor
Mercury	7439-97-6	1.000
Mercuric chloride	33631-63-9	-
Mercury (II) chloride	7487-94-7	0.739
Mercuric sulfate	7783-35-9	0.676
Mercuric nitrate	10045-94-0	0.618
Mercuric (II) oxide	21908-53-2	0.926
Mercuric sulfide	1344-48-5	0.862
Other mercury compounds	-	-

■0005 Polybrominated Biphenyls (PBBs)

Substance Name	CAS RN®
Polybrominated Biphenyls	59536-65-1
Dibromobiphenyl	92-86-4
2-Bromobiphenyl	2052-07-5
3-Bromobiphenyl	2113-57-7
4-Bromobiphenyl	92-66-0
Tribromobiphenyl	59080-34-1
Tetrabromobiphenyl	40088-45-7
Pentabromobidphenyl	56307-79-0
Hexabromobiphenyl	59080-40-9
Hexabromo-1,1'-biphenyl	36355-01-8
Firemaster FF-1	67774-32-7
Heptabromobiphenyl	35194-78-6
Octabromobiphenyl	61288-13-9
Nonabromo-1, 1'-biphenyl	27753-52-2
Decabromobiphenyl	13654-09-6

CAS Registry Numbers have not been verified by CAS and may be inaccurate

■0006 Polybrominated Diphenylethers (PBDEs)

Substance Name	CAS RN®
Bromobiphenyl ether	101-55-3
Dibromobiphenyl ether	2050-47-7
Tribromobiphenyl ether	49690-94-0
Tetrabromobiphenyl ether	40088-47-9
Pentabromobidphenyl ether (note: Commercially available PeBDPO is a complex reaction mixture containing a variety of brominated diphenyloxides.	32534-81-9
Hexabromobiphenyl ether	36483-60-0
Heptabromobiphenyl ether	68928-80-3
Octabromobiphenyl ether	32536-52-0
Nonabromobiphenyl ether	63936-56-1
Decabromobiphenyl ether	1163-19-5

■0007 Bis (2-ethylhexyl)phthalate (DEHP)

Substance Name	CAS RN®
Bis (2-ethylhexyl)phthalate (DEHP) Another name: Dioctyl phthalate (DOP)	117-81-7

■0008 Benzyl butyl phthalate (BBP)

Substance Name	CAS RN®
Benzyl butyl phthalate (BBP)	85-68-7

■0009 Dibutyl phthalate (DBP)

Substance Name	CAS RN®
Dibutyl phthalate (DBP)	84-74-2

■0010 Diisobutyl phthalate (DIBP)

Substance Name	CAS RN®
Diisobutyl phthalate (DIBP)	84-69-5

CAS Registry Numbers have not been verified by CAS and may be inaccurate

2) Prohibited Substances excluding RoHS

■0001 Ozone Depleting Substances (The controlled substances in Montreal Protocol)

Montreal Protocol Annex A Group I		
Chemical formula	Substance Name	CAS RN®
$CFCl_3$	Trichlorofluoromethane (CFC-11)	75-69-4
CF_2Cl_2	Dichlorodifluoromethane (CFC-12)	75-71-8
$C_2F_3Cl_3$	Trichlorotrifluoroethane (CFC-113) 1,1,2- Trichloro-1,2,2-trifluoroethane (CFC-113) 1,1,1- Trichloro-2,2,2-trifluoroethane (CFC-113)	76-13-1 76-13-1 354-58-5
$C_2F_4Cl_2$	Dichlorotetrafluoroethane (CFC-114)	76-14-2
C_2F_5Cl	Monochloropentafluoroethane (CFC-115)	76-15-3

Montreal Protocol Annex A Group II		
Chemical formula	Substance Name	CAS RN®
CF_2BrCl	Bromochlorodifluoromethane (halon-1211)	353-59-3
CF_3Br	Bromotrifluoromethane (halon-1301)	75-63-8
$C_2F_4Br_2$	Dibromotetrafluoroethane (halon-2402)	124-73-2

Montreal Protocol Annex B Group I		
Chemical formula	Substance Name	CAS RN®
CF_3Cl	Chlorotrifluoromethane (CFC-13)	75-72-9
C_2FCl_5	Pentachlorofluoroethane (CFC-111)	354-56-3
$C_2F_2Cl_4$	Tetrachlorodifluoroethane (CFC-112) 1,1,2,2,-Tetrachloro-1,2-difluoroethane (CFC-112) 1,1,1,2,-Tetrachloro-2,2-difluoroethane (CFC-112a)	76-12-0 76-12-0 76-11-9
C_3FCl_7	Hexachlorofluoropropane (CFC-211) 1,1,1,2,2,3,3-Hexachloro-3-fluoropropane (CFC-211aa) 1,1,1,2,3,3,3-Hexachloro-2-fluoropropane (CFC-211ba)	422-78-6 135401-87-5 422-78-6 422-81-1
$C_3F_2Cl_6$	Hexachlorodifluoropropane (CFC-212)	3182-26-1
$C_3F_3Cl_5$	Pentachlorotrifluoropropane (CFC-213)	2354-06-5 134237-31-3
$C_3F_4Cl_4$	Tetrachlorotetrafluoropropane (CFC-214) 1,2,2,3-Tetrachloro-1,1,3,3-tetrafluoropropane (CFC-214aa) 1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane (CFC-214cb)	29255-31-0 2268-46-4 -
$C_3F_5Cl_3$	Trichloropentafluoropropane (CFC-215) 1,2,2-Trichloropentafluoropropane (CFC-215aa) 1,2,3-Trichloropentafluoropropane (CFC-215ba) 1,1,2-Trichloropentafluoropropane (CFC-215bb) 1,1,3-Trichloropentafluoropropane (CFC-215ca) 1,1,1-Trichloropentafluoropropane (CFC-215cb)	1599-41-3 1599-41-3 76-17-5 - - 4259-43-2
$C_3F_6Cl_2$	Dichlorohexafluoropropane (CFC-216)	661-97-2
C_3F_7Cl	Monochloroheptafluoropropane (CFC-217)	422-86-6

Montreal Protocol Annex B Group II		
Chemical formula	Substance Name	CAS RN®
CCl_4	Carbon Tetrachloride (Tetrachloromethane)	56-23-5

Montreal Protocol Annex B Group III		
Chemical formula	Substance Name	CAS RN®
$C_2H_3Cl_3$	1,1,1-Trichloroethane (methyl chloroform) Except 1,1,2-trichloroethane	71-55-6

Montreal Protocol Annex C Group I		
Chemical formula	Substance Name	CAS RN®
$CHFCl_2$	Dichlorofluoromethane (HCFC-21)	75-43-4
CHF_2Cl	Chlorodifluoromethane (HCFC-22)	75-45-6
CH_2FCl	Chlorofluoromethane (HCFC-31)	593-70-4
C_2HFCl_4	Tetrachlorofluoroethane (HCFC-121) 1,1,2,2-Tetracloro-1-fluoroethane (HCFC-121) 1,1,1,2-Tetrachloro-2-fluoroethane (HCFC-121a)	134237-32-4 354-14-3 354-11-0
$C_2HF_2Cl_3$	Trichlorodifluoroethane (HCFC-122) 1,2,2-Trichloro-1,1-difluoroethane (HCFC-122) 1,1,2-Trichloro-1,2-difluoroethane (HCFC-122a) 1,1,1-Trichloro-2,2-difluoroethane (HCFC-122b)	41834-16-6 354-21-2 354-15-4 354-12-1
$C_2HF_3Cl_2$	Dichlorotrifluoroethane (HCFC-123) 2,2-Dichloro-1,1,1-trifluroethane (HCFC-123) 1,2-Dichloro-1,1,2-trifluroethane (HCFC-123a) Dichloro-1,1,2-trifluoroethane 1,1-dichloro-1,2,2-trifluroethane (HCFC-123b)	34077-87-7 306-83-2 354-23-4 90454-18-5 812-04-4
C_2HF_4Cl	Chlorotetrafluoroethane (HCFC-124) 2-Chloro-1,1,1,2-tetrafluoroethane (HCFC-124) 1-Chloro-1,1,2,2-tetrafluoroethane (HCFC 124a)	63938-10-3 2837-89-0 354-25-6
$C_2H_2FCl_3$	Trichlorofluoroethane (HCFC-131) 1,1,2-Trichloro-2-fluoroethane (HCFC-131) 1,1,2-Trichloro-1-fluoroethane (HCFC-131a) 1,1,1-Trichloro-2-fluoroethane (HCFC-131b)	27154-33-2 (134237-34-6) 359-28-4 811-95-0 2366-36-1
$C_2H_2F_2Cl_2$	Dichlorodifluoroethane (HCFC-132) 1,2-Dichloro-1,2-difluoroethane (HCFC-132) 1,1-Dichloro-2,2-difluoroethane (CFC-132a) 1,2-Dichloro-1,1-difluoroethane (HCFC 132b) 1,1-Dichloro-1,2-difluoroethane (HFCF 132c)	25915-78-0 431-06-1 471-43-2 1649-08-7 1842-05-3
$C_2H_2F_3Cl$	Chlorotrifluoroethane (HCFC-133) 1-Chloro-1,2,2-trifluoroethane (HCFC-133) 2-Chloro-1,1,1-trifluoroethane (HCFC-133a) 1-Chloro-1,1,2-trifluoroethane (HCFC-133b)	1330-45-6 431-07-2 1330-45-6 75-88-7 421-04-5

CAS Registry Numbers have not been verified by CAS and may be inaccurate

Montreal Protocol Annex C Group I		
Chemical formula	Substance Name	CAS RN®
$C_2H_3FCl_2$	Dichlorofluoroethane (HCFC-141)	1717-00-6
		(25167-88-8)
	1,2-Dichloro-1-fluoroethane (HCFC-141)	430-57-9
	1,1-Dichloro-2-fluoroethane (HCFC-141a)	430-53-5
	1,1-Dichloro-1-fluoroethane (HCFC-141b)	1717-00-6
$C_2H_3F_2Cl$	Chlorodifluoroethane (HCFC-142)	25497-29-4
	2-Chloro-1,1-difluoroethane (HCFC-142)	338-65-8
	1-Chloro-1,2-difluoroethane (HCFC-142a)	338-64-7
	2-Chloro-1,1-difluoroethane (HCFC-142b)	75-68-3
C_2H_4FCl	Chlorofluoroethane (HCFC-151)	110587-14-9
	1-Chloro-2-fluoroethane (HCFC-151)	762-50-5
	1-Chloro-1-fluoroethane (HCFC-151a)	1615-75-4
C_3HFCl_6	Hexachlorofluoropropane (HCFC-221)	134237-35-7
	1,1,1,2,2,3-Hexachloro-3-fluoropropane (HCFC-221ab)	29470-94-8
		422-26-4
$C_3HF_2Cl_5$	Pentachlorodifluoropropane (HCFC-222)	134237-36-8
	1,1,1,3,3-Pentachloro-2,2-difluoropropane (HCFC-222ca)	422-30-0
	1,2,2,3,3-Pentachloro-1,1-difluoropropane (HCFC-222aa)	
$C_3HF_3Cl_4$	Tetrachlorotrifluropropane (HCFC-223)	134237-37-9
	1,1,3,3-Tetrachloro-1,2,2-trifluropropane (HCFC-223ca)	422-52-6
	1,1,1,3-Tetrachloro-2,2,3-trifluropropane (HCFC-223cb)	422-50-4
$C_3HF_4Cl_3$	Trichlorotetrafluoropropane (HCFC-224)	134237-38-0
	1,3,3-Trichloro-1,1,2,2-tetrafluoropropane (HCFC-224ca)	422-54-8
	1,1,3-Trichloro-1,2,2,3-tetrafluoropropane (HCFC-224cb)	422-53-7
	1,1,1-Trichloro-2,2,3,3-tetrafluoropropane (HCFC-224cc)	422-51-5
$C_3HF_4Cl_3$	Trichlorotetrafluoropropane (HCFC-224)	134237-38-0
	1,3,3-Trichloro-1,1,2,2-tetrafluoropropane (HCFC-224ca)	422-54-8
	1,1,3-Trichloro-1,2,2,3-tetrafluoropropane (HCFC-224cb)	422-53-7
	1,1,1-Trichloro-2,2,3,3-tetrafluoropropane (HCFC-224cc)	422-51-7
$C_3HF_5Cl_2$	Dichloropentafluoropropane (HCFC-225)	127564-92-5
	2,2-Dichloro-1,1,1,3,3-pentafluoropropane (HCFC-225aa)	128903-21-9
	2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC-225ba)	422-48-0
	1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225bb)	422-44-6
	3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	422-56-0
	1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCF-C225cb)	507-55-1
	1,1-Dichloro-1,2,2,3,3-pentafluoropropane (HCFC-225cc)	13474-88-9
	1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC-225da)	431-86-7
	1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225ea)	136013-79-1
	1,1-Dichloro-1,2,3,3,3-pentafluoropropane (HCFC-225eb)	111512-56-2
C_3HF_6Cl	Chlorohexafluoropropane (HCFC -226)	134308-72-8
	2-Chloro-1,1,1,3,3,3-hexafluoropropane (HCFC -226da)	431-87-8
$C_3H_2FCl_5$	Pentachlorofluoropropane (HCFC-231)	134190-48-0
	1,1,1,2,3-Pentachloro-2-fluoropropane (HCFC-231bb)	421-94-3
$C_3H_2F_2Cl_4$	Tetrachlorodifluoropropane (HCFC-232)	134237-39-1
	1,1,1,3-Tetrachloro-3,3-difluoropropane (HCFC-232fc)	460-89-9
$C_3H_2F_3Cl_3$	Trichlorotrifluoropropane (HCFC-233)	134237-40-4
	1,1,1-Trichloro-3,3,3-trifluoropropane (HCFC-233fb)	7125-83-9
$C_3H_2F_4Cl_2$	Dichlorotetrafluoropropane (HCFC-234)	127564-83-4
	1,2-Dichloro-1,2,3,3-tetrafluoropropane (HCFC-234 db)	425-94-5
$C_3H_2F_5Cl$	Chloropentafluoropropane (HCFC-235)	134237-41-5
	1-Chloro-1,1,3,3,3-pentafluoropropane (HCFC-235fa)	460-92-4
$C_3H_3FCl_4$	Tetrachlorofluoropropane (HCFC-241)	134190-49-1
	1,1,2,3-Tetrachloro-1-fluoropropane (HCFC-241)	666-27-3
$C_3H_3F_2Cl_3$	Trichlorodifluoropropane (HCFC-242)	134237-42-6
	1,3,3-Trichloro-1,1-difluoropropane (HCFC-242)	460-63-9
$C_3H_3F_3Cl_2$	Dichlorotrifluoropropane (HCFC-243)	134237-43-7
	1,1-dichloro-1,2,2-trifluoropropane (HCFC-243cc)	7125-99-7
	2,3-dichloro-1,1,1-trifluoropropane (HCFC-243db)	338-75-0
	3,3-Dichloro-1,1,1-trifluoropropane (HCFC-243fa)	460-69-5
$C_3H_3F_4Cl$	Chlorotetrafluoropropane (HCFC-244)	134190-50-4
	3-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244 ca)	679-85-6
	1-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244 cc)	421-75-0
$C_3H_4FCl_3$	Trichlorofluoropropane (HCFC-251)	134190-51-5
	1,1,3-Trichloro-1-fluoropropane (HCFC-251 fb)	818-99-5
	1,1,2-Trichloro-1-fluoropropane (HCFC-251 dc)	421-41-0
$C_3H_4F_2Cl_2$	Dichlorodifluoropropane (HCFC-252)	134190-52-6
	1,3-Dichloro-1,1-difluoropropane (HCFC-252 fb)	819-00-1
$C_3H_4F_3Cl$	Chlorotrifluoropropane (HCFC-253)	134237-44-8
	3-Chloro-1,1,1-trifluoropropane (HCFC-253 fb)	460-35-5
$C_3H_5FCl_2$	Dichlorofluoropropane (HCFC-261)	134237-45-9
	1,1-Dichloro-1-fluoropropane (HCFC-261 fc)	7799-56-6
	1,2-Dichloro-2-fluoropropane (HCFC-261 ba)	420-97-3
$C_3H_5F_2Cl$	Chlorodifluoropropane (HCFC-262)	134190-53-7
	1-Chloro-2,2-difluoropropane (HCFC-262 ca)	420-99-5
	2-Chloro-1,3-difluoropropane (HCFC-262 da)	102738-79-4
	1-Chloro-1,1-difluoropropane (HCFC-262 fc)	421-02-3
C_3H_6FCl	Chlorofluoropropane (HCFC- 271)	134190-54-8
	2-Chloro-2-fluoropropane (HCFC- 271 ba)	420-44-0
	1-Chloro-1-fluoropropane (HCFC- 271 fb)	430-55-7

Montreal Protocol Annex C Group II		
Chemical formula	Substance Name	CAS RN®
$CHFBr_2$	Dibromofluoromethane (HBFC-21 B2)	1868-53-7
CHF_2Br	Bromodifluoromethane (HBFC-22 B1)	1511-62-2
CH_2FBr	Bromodifluoromethane (HBFC-31 B1)	373-52-4
C_2HFBr_4	Tetrabromofluoroethane (HBFC-121 B4)	306-80-9
$C_2HF_2Br_3$	Tribromodifluoroethane (HBFC-122 B3)	-
$C_2HF_3Br_2$	Dibromotrifluoroethane (HBFC-123 B2)	354-04-1
C_2HF_4Br	Bromotetrafluoroethane (HBFC-124 B1)	124-72-1
$C_2H_2FBr_3$	Tribromofluoroethane (HBFC-131 B3)	-
$C_2H_2F_2Br_2$	Dibromodifluoroethane (HBFC-132 B2)	75-82-1
$C_2H_2F_3Br$	Bromotrifluoroethane (HBFC-133 B1)	421-06-7
$C_2H_3FBr_2$	Dibromofluoroethane (HBFC-141 B2)	358-97-4

CAS Registry Numbers have not been verified by CAS and may be inaccurate

Montreal Protocol Annex C Group II		
Chemical formula	Substance Name	CAS RN®
$C_2H_3F_2Br$	Bromodifluoroethane (HBFC-142 B1)	420-47-3
C_2H_4FBr	Bromofluoroethane (HBFC-151 B1)	762-49-2
C_3HFBr_6	Hexabromofluoropropane (HBFC-221 B6)	-
$C_3HF_2Br_5$	Pentabromodifluoropropane (HBFC-222 B5)	-
$C_3HF_3Br_4$	Tetrabromotrifluoropropane (HBFC-223 B4)	-
$C_3HF_4Br_3$	Tribromotetrafluoropropane (HBFC-224 B3)	-
$C_3HF_5Br_2$	Dibromopentafluoropropane (HBFC-225 B2)	431-78-7
C_3HF_6Br	Bromohexafluoropropane (HBFC-226 B1)	2252-78-0
$C_3H_2FBr_5$	Pentabromofluoropropane (HBFC-231 B5)	-
$C_3H_2F_2Br_4$	Tetrabromodifluoropropane (HBFC-232 B4)	-
$C_3H_2F_3Br_3$	Tribromotrifluoropropane (HBFC-233 B3)	-
$C_3H_2F_4Br_2$	Dibromotetrafluoropropane (HBFC-234 B2)	-
$C_3H_2F_5Br$	Bromopentafluoropropane (HBFC-235 B1)	460-88-8
$C_3H_3FBr_4$	Tetrabromofluoropropane (HBFC-241 B4)	-
$C_3H_3F_2Br_3$	Tribromodifluoropropane (HBFC-242 B3)	70192-80-2
$C_3H_3F_3Br_2$	Dibromotrifluoropropane (HBFC-243 B2)	431-21-0
$C_3H_3F_4Br$	Bromotetrafluoropropane (HBFC-244 B1)	679-84-5
$C_3H_4FBr_3$	Tribromofluoropropane (HBFC-251 B3)	75372-14-4
$C_3H_4F_2Br_2$	Dibromodifluoropropane (HBFC-252 B2)	460-25-3
$C_3H_4F_3Br$	Bromotrifluoropropane (HBFC-253 B1)	421-46-5
$C_3H_5FBr_2$	Dibromofluoropropane (HBFC-261 B2)	51584-26-0
$C_3H_5F_2Br$	Bromodifluoropropane (HBFC-262 B1)	-
C_3H_6FBr	Bromofluoropropane (HBFC-271 B1)	1871-72-3

Montreal Protocol Annex C Group III		
Chemical formula	Substance Name	CAS RN®
CH_2BrCl	Bromochloromethane (halon-1011)	74-97-5

Montreal Protocol Annex E		
Chemical formula	Substance Name	CAS RN®
CH_3Br	Methylbromide	74-83-9

■0002 Asbestos

Substance Name	CAS RN®
Asbestos	1332-21-4
Actinolite	77536-66-4
Amosite (Grunerite)	12172-73-5
Anthophyllite	77536-67-5
Chrysotile	12001-29-5
Crocidolite	12001-28-4
Tremolite	77536-68-6

■0004 Polychlorinated Biphenyls (PCBs)

Substance Name	CAS RN®
Polychlorinated Biphenyls	1336-36-3
Aroclor	12767-79-2
Chlorodiphenyl (Aroclor 1260)	11096-82-5
Kanechlor 500	27323-18-8
Aroclor 1254	11097-69-1
Monomethyl-tetrachloro-diphenyl methane (Ugilec 141)	76253-60-6
Monomethyl-dichloro-diphenyl methane (Ugilec 121,Ugilec 21)	81161-70-8
Monomethyl-dibromo-diphenyl methane (DBBT)	99688-47-8

■0005 Polychlorinated Terphenyls (PCTs)

Substance Name	CAS RN®
Polychlorinated Terphenyl (PCT)	61788-33-8

■0007 Radioactive Substances

Substance Name	CAS RN®
Uranium	7440-61-1
Plutonium	7440-07-5
Radon	10043-92-2
Americium	7440-35-9
Thorium	7440-29-1
Cesium	7440-46-2
Strontium	7440-24-6
Other radioactive substances	-

■0008 Certain Shortchain Chlorinated Paraffins

Substance Name	CAS RN®
Chlorinated paraffins (C10-13)	85535-84-8
Other Short Chain Chlorinated Paraffins	-

CAS Registry Numbers have not been verified by CAS and may be inaccurate

■0009 Tri-substituted organostannic compounds such as Tributyltin (TBT) compounds and Triphenyltin (TPT) compounds

Tributyltin (TBT) compounds

Substance Name	CAS RN®	Metal Conversion Factor
Tributyltin methacrylate	2155-70-6	0.316
Bis(tributyltin) fumarate	6454-35-9	0.342
Tributyltin fluoride	1983-10-4	0.384
Bis(tributyltin) 2,3-dibromosuccinate	31732-71-5	0.278
Tributyltin acetate	56-36-0	0.340
Tributyltin laurate (HCB)	3090-36-6	0.243
Bis(tributyltin) phthalate	4782-29-0	0.319
Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate(alkyl; C=8)	-	-
Tributyltin sulfamate	6517-25-5	0.307
Bis(tributyltin) maleate	14275-57-1	0.342
Tributyltin chloride	1461-22-9	0.365
Mixture of tributyltin cyclopentanecarboxylate and itsanalogs (Tributyltin naphthenate)	-	-
Mixture of tributyltin 1, 2, 3, 4, 4a, 4b, 5, 6, 10,10a-decahydro -7-isopropyl-1, 4a-dimethyl-1-phenanthlenecarboxylate and its analogs (Tributyltinrosin salt)	-	-
Other Tributyl Tins	-	-

Triphenyltin (TPT) compounds

Substance Name	CAS RN®	Metal Conversion Factor
Triphenyltin N, N'-dimethyldithiocarbamate	1803-12-9	0.252
Triphenyltin fluoride	379-52-2	0.322
Triphenyltin acetate	900-95-8	0.290
Triphenyltin chloride	639-58-7	0.308
Triphenyltin hydroxide	76-87-9	0.323
Triphenyltin fatty acid salts (C=9-11)	47672-31-1	0.228
Triphenyltin chloroacetate	7094-94-2	0.268
Other Triphenyl Tins	-	-

Tri-substituted organostannic compounds

Substance Name	CAS RN®	Metal Conversion Factor
Other Tri-substituted organostannic compounds	-	-

■0010 Bis(tributyltin)oxide (TBTO)

Substance Name	CAS RN®	Metal Conversion Factor
Bis(tributyltin)oxide (TBTO)	56-35-9	0.389

■0011 Perfluorooctane sulfonates (PFOS) and its salts

Substance Name	CAS RN®
Heptadecafluorooctanesulphonamide	754-91-6
Heptadecaflorooctane-1-sulphonic acid	1763-23-1
Potassiumheptadecafluorooctane-1-sulphonate	2795-39-3
Lithiumheptadecafluorooctanesulphonate	29457-72-5
Potassium decafluoro(pentafluoroethyl)cyclohexanesulphonate	67584-42-3
Potassium nonafluorobis(trifluoromethyl)cyclohexanesulphonate	68156-01-4
Other perfluorooctane sulfonates (PFOS) and its salts	-

■0014 Dibutyltin (DBT) compounds

Substance Name	CAS RN®	Metal Conversion Factor
Dibutyltin oxide	818-08-6	0.477
Dibutyltin diacetate	1067-33-0	0.338
Dibutyltin dilaurate	77-58-7	0.188
Dibutyltin maleate	78-04-6	0.342
Dibutyltin dichloride (DBTC)	683-18-1	0.391
Butyltin hydrogen borate	75113-37-0	0.405
Other Dibutyl tins	-	-

■0015 Dioctyltin (DOT) compounds

Substance Name	CAS RN®	Metal Conversion Factor
Dioctyltin oxide	870-08-6	0.329
Dioctyltin dilaurates (DOTL)	3648-18-8	0.160
Dioctyltin maleate	16091-18-2	0.259
Dioctyltin dichloride	3542-36-7	0.285
Di(n-octyl)tinbis(isooctylthioglycolate)	26401-97-8	0.158
Other Diocty-	-	-

■0019 Perfluorooctanoic acid (PFOA), its salts and esters

Substance Name	CAS RN®
Pentadecafluorooctanoic acid	335-67-1
Ammonium pentadecafluorooctanoate	3825-26-1
Sodium pentadecafluorooctanoate	335-95-5
Potassium pentadecafluorooctanoate	2395-00-8
Silver pentadecafluorooctanoate	335-93-3
Pentadecafluorooctanoyl fluoride	335-66-0
Other perfluorooctanoic acid (PFOA), its salts and esters	-

■0023 Polychlorinated Naphthalenes (Cl ≥1)

Substance Name	CAS RN®
Polychlorinated Naphthalenes	70776-03-3
1,2-Dichloronaphthalene	2050-69-3.
1,3-Dichloronaphthalene	2198-75-6.
1,4-Dichloronaphthalene	1825-31-6.

CAS Registry Numbers have not been verified by CAS and may be inaccurate

Substance Name	CAS RN®
1,5-Dichloronaphthalene	1825-30-5
1,6-Dichloronaphthalene	2050-72-8
1,7-Dichloronaphthalene	2050-73-9
1,8-Dichloronaphthalene	2050-74-0
2,3-Dichloronaphthalene	2050-75-1
2,6-Dichloronaphthalene	2065-70-5
2,7-Dichloronaphthalene	2198-77-8
Dichloronaphthalene	28699-88-9
Trichloronaphthalene	1321-65-9
Tetrachloronaphthalene	1335-88-2
Pentachloronaphthalene	1321-64-8
Octachloronaphthalene	2234-13-1
1-Chloronaphthalene	90-13-1
2-Chloronaphthalene	91-58-7
Other polychlorinated Naphthalenes	-

■0027 C9-C14 Perfluorocarboxylic acids (PFCAs), its salts, and its related substances

Substance Name	CAS RN®
Henicosafluoroundecanoic acid	2058-94-8
Pentacosafluorotridecanoic acid	72629-94-8
Perfluorononan-1-oic acid	375-95-1
Heptacosafluorotetradecanoic acid	376-06-7
Nonadecafluorodecanoic acid	335-76-2
Other C9-C14 perfluorocarboxylic acids (PFCAs), its salts, and its related substances	-

■0028 Perfluorohexanesulfonic acid (PFHxS) and its salts

Substance Name	CAS RN®
Perfluorohexane-1-sulphonic acid	355-46-4
Potassium perfluorohexane-1-sulphonate	3871-99-6
Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	153443-35-7
Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)	866621-50-3
Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	911027-68-4
Other perfluorohexanesulfonic acid (PFHxS) and its salts	-

■0031 Perfluorohexanoic acid (PFHxA), its salts, and its related substances

Substance Name	CAS RN®
Perfluorohexanoic acid	307-24-4
Ammonium perfluorohexanoate	21615-47-4
Perfluorohexyl iodide	355-43-1
2-(Perfluorohexyl)ethanol	647-42-7
1-(Perfluorohexyl)octane	133331-77-8
Other perfluorohexanoic acid (PFHxA), its salts, and its related substances	-

CAS Registry Numbers have not been verified by CAS and may be inaccurate

6. EU RoHS Directive Exemptions
(Excluding Category 8, Category 9 and Category 11)

Please confirm the contents published by the EU authorities for the latest exemptions of Category 8, Category 9, and Category 11.
https://ec.europa.eu/environment/topics/waste-and-recycling/rohs-directive/implementation-rohs-directive_en

Applications for extending exemptions can be filed. The EU authorities examine the appropriateness of the application, and determine propriety of the extension.
Exemptions in which an extension was not accepted by the EU authorities can no longer be used 12 to 18 months after the determination date.

Regarding spare parts only for products in which marketing in the EU has been discontinued while an exemption remains effective, the exemption can continue to be used even after the exemption period used is terminated.

This is a list of the effective exemptions as of July 1, 2024, and the exemptions that will be effective in the future.
In addition, "Undecided" refers to exemptions in which the application for extending the legal deadline has already been filed, and the appropriateness of the applications are under deliberations by the EU authorities.

	Exemption	Legal Deadline	Delivery Deadline to the Brother Group
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	2027/2/24	2026/2/24
1(f)-II	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For special purposes: 5 mg	2025/2/24	Delivery already prohibited
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	2023/8/24	Delivery already prohibited
2(a)2	Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp): Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 3 mg	2023/8/24	Delivery already prohibited
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 ≤ 28 mm (e.g. T8): 3.5mg	2023/8/24	Delivery already prohibited
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	2023/2/25-2025/2/24	Delivery already prohibited
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	Undecided	1 year before the legal expiration date
2(b)4-II	Mercury in other fluorescent lamps not exceeding (per lamp): Lamps emitting mainly light in the ultraviolet spectrum: 15 mg	2027/2/24	2026/2/24
2(b)4-III	Mercury in other fluorescent lamps not exceeding (per lamp): Emergency lamps: 15 mg	2027/2/24	2026/2/24
3(a)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp): Short length (≤ 500 mm): 3,5 mg	2025/2/24	Delivery already prohibited

	Exemption	Legal Deadline	Delivery Deadline to the Brother Group
3(b)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp): Medium length (> 500 mm and ≤ 1,500 mm): 5 mg	2025/2/24	Delivery already prohibited
3(c)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp):Long length (> 1,500 mm): 13 mg	2025/2/24	Delivery already prohibited
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	2027/2/24	2026/2/24
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	2027/2/24	2026/2/24
4(c)-I	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): P ≤ 155 W:20mg	2027/2/24	2026/2/24
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	2027/2/24	2026/2/24
4(c)-III	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): P> 405 W: 25 mg	2027/2/24	2026/2/24
4(e)	Mercury in metal halide lamps (MH)	2027/2/24	2026/2/24
4(f)-I	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	Undecided	1 year before the legal expiration date
4(f)-II	Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required	2027/2/24	2026/2/24
4(f)-III	Mercury in high pressure sodium vapour lamps used for horticulture lighting	2027/2/24	2026/2/24
4(f)-IV	Mercury in lamps emitting light in the ultraviolet spectrum	2027/2/24	2026/2/24
5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	Undecided	1 year before the legal expiration date
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	Undecided	1 year before the legal expiration date
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	Undecided	1 year before the legal expiration date
6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0.4 % by weight	Undecided	1 year before the legal expiration date
6(c)	Copper alloy containing up to 4 % lead by weight	Undecided	1 year before the legal expiration date
7(a)	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)	Undecided	1 year before the legal expiration date
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	Undecided	1 year before the legal expiration date
7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	Undecided	1 year before the legal expiration date

	Exemption	Legal Deadline	Delivery Deadline to the Brother Group
8(b)-I	Cadmium and its compounds in electrical contacts used in: - circuit breakers, - thermal sensing controls, - thermal motor protectors (excluding hermetic thermal motor protectors), - AC switches rated at: - 6 A and more at 250 V AC and more, or - 12 A and more at 125 V AC and more, - DC switches rated at 20 A and more at 18 V DC and more, and - switches for use at voltage supply frequency ≥ 200 Hz.	Undecided	1 year before the legal expiration date
9(a)-II	Up to 0,75% hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators: - designed to operate fully or partly with electrical heater, having an average utilised power input ≥ 75 W at constant running conditions; - Designed to fully operate with non-electrical heater.	Undecided	1 year before the legal expiration date
9(a)-III	Up to 0,7 % hexavalent chromium by weight, used as an anticorrosion agent in the working fluid of the carbon steel sealed circuit of gas absorption heat pumps for space and water heating	2026/12/31	2025/12/31
13(a)	Lead in white glasses used for optical applications	Undecided	1 year before the legal expiration date
13(b)-I	Lead in ion coloured optical filter glass types	Undecided	1 year before the legal expiration date
13(b)-II	Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex	Undecided	1 year before the legal expiration date
13(b)-III	Cadmium and lead in glazes used for reflectance standards	Undecided	1 year before the legal expiration date
15(a)	Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies: - a semiconductor technology node of 90 nm or larger; - a single die of 300 mm2 or larger in any semiconductor technology node; - stacked die packages with die of 300 mm2 or larger, or silicon interposers of 300 mm2 or larger.	Undecided	1 year before the legal expiration date
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)	Undecided	1 year before the legal expiration date
18(b)-I	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi2O5:Pb) when used in medical phototherapy equipment	Undecided (Only applicable to Category 5 & Category 8)	1 year before the legal expiration date
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Undecided	1 year before the legal expiration date
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	Undecided	1 year before the legal expiration date
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	Undecided	1 year before the legal expiration date
34	Lead in cermet-based trimmer potentiometer elements	Undecided	1 year before the legal expiration date

	Exemption	Legal Deadline	Delivery Deadline to the Brother Group
39(a)	Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 μg Cd per mm2 of display screen area)	2025/11/21	2024/11/21
39(b)	Cadmium in downshifting semiconductor nanocrystal quantum dots directly deposited on LED semiconductor chips for use in display and projection applications (< 5 µg Cd per mm2 of LED chip surface) with a maximum amount per device of 1 mg	2027/12/31	2026/12/31

(Reference information)　Category of the electrical and electronic equipment applicable for the EU RoHS Directive (As of July 1, 2024)

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

Revision History

Version 1.0	April 1, 2002	First version issued
Version 2.0	March 1, 2005	Revised to add Brother-specified substances including RoHS 6 substances A total of 19 types of prohibited substances including the RoHS 6 Substances
Version 3.0	September 12, 2006	List of controlled chemical substances was updated to a total of 24 substances including RoHS 6 substances and JIG18 substances.
Version 4.0	April 1, 2009	Revised to add controlled chemical substances (1st SVHC list – V001)
Version 5.0	March 1, 2010	Revised to add controlled chemical substances (2nd SVHC list – V002)
Version 6.0	September 21, 2010	Major revision made to add controlled chemical substances (3rd SVHC list – V003) and requirement for mass information
Version 6.1	February 1, 2011	Revised to add controlled chemical substances (4th SVHC list – V004)
Version 6.2	June 27, 2011	Revised to add controlled chemical substances (5th SVHC list – V005)
Version 6.3	January 12, 2012	Revised to add controlled chemical substances (6th SVHC list – V006)
Version 7.0	May 7, 2012	Revised to make categorical changes to controlled chemical substances specified by the Brother Group and the content value standard for prohibited chemical substances (Level A)
Version 7.1	June 27, 2012	Revised to add controlled chemical substances (7th SVHC list – V007)
Version 7.2	January 11, 2013	Revisions due to the following: ・ Added a request for suppliers to take proactive actions to conserve biodiversity ・ Added controlled chemical substances (8th SVHC list – V008 and Perchlorate Compounds) ・ Made amendments to controlled chemical substances (Aluminosilicate Refractory Ceramic Fibres (2nd SVHC list) and Zirconia Aluminosilicate Refractory Ceramic Fibres (2nd SVHC list)).
Version 7.3	June 27, 2013	Revisions due to the following: ・ Added controlled chemical substances (9th SVHC list – V009) ・ Exemptions in the annexes to the RoHS directive were added to chapter 8. ・ Added notes on exemptions which are soon to expire or have already expired
Version 7.4	January 9, 2014	Revisions due to the following: ・ Revised and deleted some of the definitions of terms ・ Added a request for developing a greenhouse gas emissions reduction plan ・ Added controlled chemical substances [HBCD (prohibited substances excluding RoHS) and 10th SVHC list] ・ Modified notes to prohibited substances excluding RoHS (restrictions on DBT and HCB) ・ Added descriptions about the interpretation of the content standard values for prohibited substances excluding RoHS ・ Added descriptions about how to submit information via the Green Procurement Management System ・ Added notes on exemptions which are soon to expire or have already expired ・ Made other modifications to the text ・ Corrected errors
Version 7.5	July 1, 2014	Revisions due to the following: ・ Added commitment to conserving biodiversity to the Action Guidelines shown under the Brother Group's Attitude toward Environmental Conservation ・ Added controlled chemical substances [PFOA, its salts and esters (prohibited substances excluding RoHS) and 11th SVHC list] ・ Added new exemptions listed in the RoHS Directive Annex and revised notes on exemptions which have already expired ・ Made other modifications to the text
Version 7.6	January 6, 2015	Revised to add controlled chemical substances (12th SVHC list – V012)
Version 7.7	July 1, 2015	Revisions due to the following: ・ Made modifications and additions regarding responding to the needs of the Brother Group's customers ・ Added controlled chemical substances [Polycyclic-aromatic hydrocarbons (prohibited substances excluding RoHS) and 13th SVHC list] ・ Modified notes to prohibited substances excluding RoHS (restrictions on PFOA, its salts and esters)

		・ Added notes on exemptions which are soon to expire or have already expired
Version 7.8	January 6, 2016	Revisions due to the following: ・ Advance notice for addition to controlled chemical substances (RoHS). ・ Added controlled chemical substances (14th SVHC list) ・ Added notes on exemptions which are soon to expire for the RoHS Directive Annex (Exemptions). ・ Corrected the CAS RN® errors in “7. Detailed List of Chemical Substances/Substance Groups.”
Version 8.0	July 1, 2016	Revisions due to the following: ・ Added controlled chemical substances [Polychlorinated Naphthalenes (Cl ≥2) (prohibited substances excluding RoHS) and 15th SVHC list] ・ Added the purpose of Brother Group Green Procurement ・ Made modifications to the Request to Suppliers ・ Made modifications to the text (such as consistently using the terms restrict and goods)
Version 8.1	January 20, 2017	Revisions due to the following: ・ Added controlled chemical substances [Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST) (prohibited substances excluding RoHS) and 16th SVHC list] ・ Added notes on exemptions which are soon to expire or have already expired ・ Made other modifications to the text
Version 8.2	July 11, 2017	Revisions due to the following: ・ Added controlled chemical substances (RoHS) ・ Added controlled chemical substances (17th SVHC list – V017) ・ Added Request to Suppliers items (EPEAT response, red phosphorus response ・ Notification of plan to modify Green Procurement Management System
Version 9.0	January 17, 2018	Revisions due to the following: ・ Made changes due to the introduction of chemSHERPA - Added controlled chemical substances (Polychlorinated Naphthalenes (Cl ≧1)) (prohibited substances excluding RoHS) - Made changes to the content standard value for controlled chemical substances (Lead/Lead Compounds (RoHS)) - Made changes to controlled chemical substances (level B) - Added to Entering Data into the Green Procurement System - Made modifications to Detailed List of Chemical Substances/Substance Groups ・ Revised Request to Suppliers items ・ Deletion of the diagram of Flow of Brother Group Operations for Management of Chemical Substances in Products
Version 9.1	March 07, 2019	Revisions due to the following: ・ Changed the content standard value of the controlled chemical substances - RoHS; DEHP、BBP、DBP and DIBP - Prohibited substances excluding RoHS: PFOA and its salts, PFOA related substances ・ Added controlled chemical substances - Bisphenol A ・ Deleted controlled chemical substances - Prohibited substances excluding RoHS; BNST ・ Discontinuation for Applications of EU RoHS Directive Exemptions (6(a)-I, 6(b)-I, 6(b)-II and 6(c)) ・ Corrected the notes concerning the Management of By-product Class I Specified Chemical Substances ・ Revised EU RoHS Directive Exemptions ・ Corrected the request items to suppliers (Handling of red phosphorus, measures for environmental conservation activities) ・ Made other modifications to the text

Version 9.2	September 24, 2021	Revisions due to the following: ・ Updated the point of view of the environmental conservation of the Brother Group ・ Added a note to the scope of the Brother Group Green Procurement ・ Added definitions of terms ・ Corrected items in the Request to Suppliers ・ Clarified the delivery prohibited period of goods which use EU RoHS Directive exemptions ・ Changed the content standard value of declarable substances - Prohibited substances excluding RoHS: PFOA and its salts, PFOA related substances ・ Added declarable substances - Phenol, isopropylated phosphate, pentachlorothiophenol (PCTP) ・ Added and corrected the detailed list of Chemical Substances/Chemical Substance Group ・ Revised the EU RoHS Directive Exemption items
Version 9.3	August 24, 2022	Revisions due to the following: ・Corrected items requested to suppliers ・Added controlled chemical substances - C9-C14 Perfluorocarboxylic acids (PFCAs), its salts, and its related substances - Prohibited substances excluding RoHS: Perfluorohexanesulfonic acid (PFHxS) and its salts ・Added detailed list of Chemical Substances/Chemical Substance Group ・Revised the EU RoHS Directive Exemption items
Version 9.4	August 7, 2023	Revisions due to the following: ・Corrected items requested to suppliers ・Added controlled chemical substances - UV-328 - Dechlorane Plus ・Change of Chemical Substances/Chemical Substance Group, correction and change of content standard value ・Added "less than" to the content standard value of PFCAs ・Changed the content standard value of PFHxS ・Added "PFHxS Related Substances" to PFHxS Chemical Substances/Chemical Substance Group and changed footnote ・Revised the EU RoHS Directive Exemption items
Version 9.5	August 8, 2024	Revisions due to the following: ・Corrected items requested to suppliers ・Added controlled chemical substances - Perfluorohexanoic acid (PFHxA) and its salts - Perfluorohexanoic acid (PFHxA) related substances ・Added detailed list of Chemical Substances/Chemical Substance Group ・Revised the EU RoHS Directive Exemption items