

CASIO GROUP Green Procurement Standard Manual

for Casio Products, Components and Materials



This mark symbolizes all the Casio Group's activities for the environment in the 21st century.

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CASIO COMPUTER CO., LTD.

<REVISION HISTORY>

DATE	PAGE	REASON for REVISION						
2000.11.1	TAGE	1st issue						
2000.11.1		Total revision due to issue of 4th edition						
2004.4.26	7	8)Heavy metals contained in battery / Assessment / (reply " no " in the cell of battery)						
2004.4.26	15	9 / A09 / Lead and its compounds / all uses (except battery cell						
2004.4.20	10	The first four lines of the third paragraph are added.						
2005.2.1	10	The reference is added for the metal conversion coefficient under the equation.						
2005.2.1	11	The content of (2)Evaluation and Selection of Green Components is revised.						
2005.2.1	11	The comments are revised for (3)Creating Survey Sheet 2 and 3.						
2005.2.1	14-21	The classification and the scope to survey/ban of the chemical substances are revised.						
2009.3.1	16	Threshold value for cadmium changed from 0.0075 wt% (75 ppm) to 0.01 wt% (100 ppm)						
2009.3.1	16	Threshold value for shortchain chlorinated paraffins changed from 1 wt% (10000 ppm) to 0.1 wt% (1000 ppm)						
2009.3.1	16	The following chemical substances changed from <restricted substances=""> to <prohibited substances=""></prohibited></restricted>						
		12 Bis (tri-n-butyltin) oxide (TBTO)						
		13 Tributyl Tins (TBTs) and Triphenyl Tins (TPTs)						
		14 Polychlorinated naphthalenes (3 or more chlorine atoms)						
		15 Shortchain chlorinated paraffins (C10-13)						
		16 Radioactive substances						
2009.3.1	16	The following chemical substances were added as new <prohibited substances="">: 27 PFOS and its salts</prohibited>						
		28 2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol						
2009.3.1	18	Tables 1 and 2 provide a summary of the prohibited substances in batteries and packaging materials.						
2009.3.1	29	Table 3 lists the uses that are exempted from prohibitions on the inclusion of substances, and also shows new additional information on those exempted uses.						
2011.10.1	1	Replace "Casio Environmental Charter/Environmental Policies" with "Casio Environmental Vision/Casio's Environmental Declaration".						
2011.10.1	8	"heavy metals included in packaging materials" is changed.						
2011.10.1	16	The prohibited uses of prohibited substances, the thresholds and the relevant laws and regulations are revised.						
2011.10.1	16	"Tributyl Tins (TBTs) and Triphenyl Tins (TPTs)" renamed as "Trisubstituted Organotin Compounds".						
2011.10.1	17, 24	Restrictions on the amount of mercury included in batteries are added. 29. Dimethylfumarate(DMFu) 30. Dibutyltin (DBT) compounds, Dioctyltin (DOT) compound						
2011.10.1	18	Restrictions on the amount of mercury included in batteries are added.						
2011.10.1	19	Denominator of the threshold for prohibited substances included in packaging materials is changed.						
2011.10.1	27 - 30	Exempted applications for prohibited substances are changed.						
2013.4.5	12, 13, 31	E-mail address is changed.						
2015.4.1	1	Casio Environmental Vision and Casio Environmental Declaration are updated to the latest versions.						
2015.4.1	15	Threshold value for leather is added for "hexavalent chromium compounds".						
2015.4.1	15	Threshold value for "Lead and its compounds" changed.						
2015.4.1	17, 24	The following chemical substances are added as new <prohibited substances="">: 31. Hexabromocyclododecane (HBCD) 32. PFOA and individual salts and esters of PFOA 33. Polycyclic aromatic hydrocarbons (PAHs) 34. Specific phthalates (DEHP, DBP, BBP, DIBP)</prohibited>						
2015.4.1	17, 27	In Substances for Reduction, "Phthalates" is changed to "Phthalates (except DEHP, DBP, BBP and DIBP)".						
		4						

* Revision parts of this edition of this manual are written by the blue.

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Chapter 1 The Casio Group Concept of Environmental Preservation

Casio has set its sights firmly on 2050 as a long-term objective, and is helping to build a sustainable society by formulating the new "Casio Environmental Vision" and promoting activities to realize that vision.

Casio Environmental Vision 2050

With a target year of 2050, the Casio Group will create and implement its own visionary initiatives to promote the sustainable use of energy and resources and facilitate the healthy coexistence of all living things, the planet's greatest assets.

Casio's aim is to become a leading environmental company that contributes not only to a sound and sustainable global environment but also to the spiritual richness of people's lives. Casio's unique way of achieving this is by creating new value and lifestyle possibilities that give rise to markets and cultural phenomena never seen before.

To become a leading environmental company, Casio will apply its spirit of going from "0" to "1," or creating "something" from "nothing," to develop unique environmental initiatives and create products and services that make the most of its innovative ideas and leading technologies, focusing in particular on the following areas:

- Realizing a low-carbon society
- Building a recycling society
- Living in harmony with nature

Casio Environmental Declaration 2020

Action guidelines for 2020

1. Realizing a low-carbon society

The Casio Group will provide products and services that make an even greater contribution to the reduction and absorption of CO_2 emissions. In addition to expanding products and services that use energy sources that are friendly to people and the planet, including solar, wind, and hydro power, Casio will incorporate these renewable energy sources into its own business operations.

2. Building a recycling society

The Casio Group intends to further enhance resource productivity through the efficient use of water and other precious resources of the planet, including the reuse of resources and the utilization of alternate materials.

3. Living in harmony with nature

The Casio Group is promoting awareness of the need to take care of the planet through biodiversity preservation activities, while working to achieve harmony between business activities and the cycles of nature.

Chapter 2 Promotion of Casio Group Green Procurement Activities

To aggressively procure products, components and materials with minimal environmental impact, the Casio Group will make overall decisions based on environmental load in addition to evaluations on quality, cost, delivery and service.

Environmental evaluations are based on the following two green procurement standards:

- 1. Green Suppliers: Suppliers that have established and maintain an environmental management system.
- 2. Green Components: Products, components and materials with low environmental impact (implementation of environmental assessment).

The Casio Group prioritizes the procurement of Green Components from Green Suppliers as a fundamental concept in green procurement, and will follow guidelines in this manual.

[1] Scope of Green Procurement Standard Manual

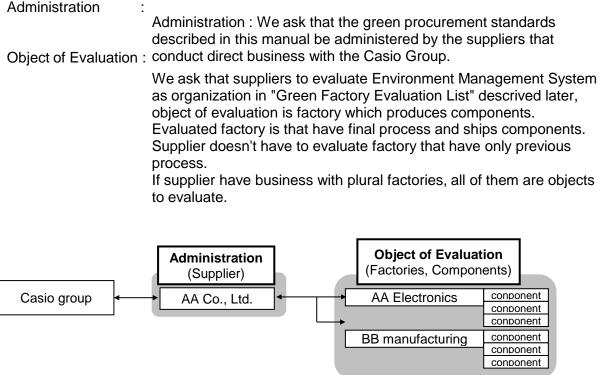
Applies to all levels of the Casio Group

This manual applies to all domestic and overseas facilities and Group companies.

Scope of Applicable Products, Components and Materials

The manual applies to all Casio products as well as components and materials (including sub-materials) that comprise products. Equipment and such office supplies such as stationary are not considered applicable in the manual. The Casio Group has established a separate set of standards for purchasing equipment and office supplies.

Administration and Object of Evaluation of Green Procurement Standards



[2] Preferential Procurement from Green Factories

The Casio Group prioritizes procurement from Green Factories that have established and maintain environmental management systems.

In the establishment and maintenance of environmental management systems, we prefer suppliers to acquire ISO 14001 certification. We request factories without planning that do not plan to acquire ISO 14001 certification, to establish and maintain environmental management systems independently through an appropriate organization in their country.

(1) Evaluation Items for Green Factories

We would like to ask suppliers to evaluate the results of their independently established and maintained environmental management systems using the following conditions:

(The numbers displayed to the right indicate the points attributed to either a yes or no answer.)

1) For a factorie that has acquired or is in the process of acquiring ISO 14001 certification	[YES / NO]
(a) Has acquired certification	•••[100 pt / 0 pt]
(b) Will acquire certification within one year	•••• [90 pt / 0 pt]
Note: Proceed to Evaluation and Selection of Green Factory if either (a) or (b) applies	
 2) For a supplier that has made independent efforts (c) An environmental preservation committee or similar organization exists with a clear agenda 	[10 pt / 0 pt]
(d) Top management participates in the above organization	[10 pt / 0 pt]
(e) An environmental policy and an environmental action plan is established, and efforts are underway	[10 pt / 0 pt]
(f) The environmental regulations are complied with, and reviews are held regularly	[20 pt / 0 pt]
 (g) No harmful substances as below are used in manufacturing processes that cause depletion of the ozone layer, soil pollution or global warming Note: It is exempted that harmful substances are used in closed condition, such as coolant in refregerator. If below substances are used in manufacturing process and discharge in environment, the factory cannot get point at this item. 	[10 pt / 0 pt]

Harmful substances				
CFCs	tetrachloroethylene			
1,1,1-trichloroethane	methyl chloride			
carbon tetrachloride	SF6			
halons	HFCs			
HCFCs	PFCs			
trichloroethylene				

(h) Has not received instructions related to environment from or been penalized by relevant inspection authorities in this 5 years	•••• [20 p t/ 0 pt]
(i) Able to disclose their environmental preservation activities outside the company	•••• [10 pt / 0 pt]
(j) Educates employees about environmental preservation	•••• [10 pt / 0 pt]

(2) Evaluation and Selection of Green Factories Evaluation: Companies are ranked from SV to CV according to their scores in the Green Factory evaluation. Selection: Factories ranked SV and AV are given preference in procurement.

Creen radiory ranking						
Rank	Total Evaluation Points	Selection Standards				
SV	100	Preferred factory				
AV	70 - 90	Freieneu lacioly				
BV	30 - 60 Request for improvemen					
CV	20 or less	Withhold new adoption				

Green Factory Ranking

[3] Preferential Procurement of Green Components

We request that suppliers independently conduct product assessment of their products, components and materials.

Casio continues to commercialize Eco Products by prioritizing the employment of products, components and materials (Green Components) with minimal impact on the environment.

Note: Definition of Product Assessment

Product assessment aims to reduce environmental load by evaluating the impact of products in the product development and design stages, concerning purchasing component and materials, production, distribution, use, recycling and waste management, and recycling and waste management, and changing the product design as necessary.

(1) Assessment Items of "Green Components"

The assessment items of "Green Components" are as follows.

There are various assessment items, and answers are different depending on the items.

Please confirm the assessment items in the next page and thereafter with thorough comprehension of the entire contents.

Assessment Items	Content, Method of Reply	Reply Form		
(1) Materials	Reply consideration of components on	Fill survey sheet		
(2) Easy of disassembly	environment by Y(Yes) / N(no)	2/3 (Refer to the "Survey Sheet		
(3) Resource Conservation		Input Guide"		
(4) Energy saving		provided		
(5) Packaging				
(6) No use of Ozone Deplating Substances				
(7) Content of mercury	Quantitatively fill the content of mercury			
(8) Heavy metals contained in battery	Reply by Y(Yes) when the contents of mercury in batteries and packages are below regulations, and N(No) when			
(9) Heavy metals contained in packaging compinent	exceeding.			
(10) Contained chemical substances	Report the content (wt%) of chemical substances for every constituting materials of components independently from assessment item (7)	Fill survey sheet 3/3 (Refer to the "Survey Sheet Input Guide" provided		

Evaluate the results of product assessment on the commodities purchased by CASIO according to the following items.

(The numerical point at the right in the following items represents an assessment point of Yes/No)

The ranges of assessment of components are described in the parenthesis in each assessment items.

Reply as Y(Yes) with respect to the components out of the range of assessment.

* We request to follow the assessment items as much as possible even for the components out of the range of assessment.

1) Materials

Assessment object: articles delivered to CASIO containing plastic members with an weight of 25 g or more or an area of 200 mm2 or more (reply as Yes when not applicable)

<u>Recycled material or materials capable of readily recycled are used for plastic</u> <u>members with an weight of 25 g or more or an area of 200 mm² or more as much</u> <u>as possible, the kinds of the materials are reduced as small as possible and</u> <u>standardized as much as possible, and the name of the materials are expressed.</u>

2) Ease of disassembly

Assessment object: articles delivered to CASIO containing plastic or metal members with an weight of 25 g or more (reply as Yes when not applicable)

<u>Recycled plastic or metal materials are used for plastic or metal members with</u> an weight of 25 g as much as possible, and the structures of the members are able to be disassembled into materials capable of recycling.

3) Resource conservation

Assessment object: articles delivered to CASIO containing plastic or metal members with an weight of 25 g or more (reply as Yes when not applicable)

The products and components are made small size and light weight as much ... [10 pt / 0 pt] as possible depending on the purpose of uses.

4) Energy conservation

Assessment object: all articles delivered to CASIO

Endeavoring to develop energy saving products and components, or to reduce ... [10 pt / 0 pt] the energy in the production process.

•••• [10 pt / 0 pt]

5) Packaging

Assessment object: all articles delivered to CASIO

Packaging components are constructed so as to enable repeated uses as much as possible, and are trying to be able to recycle and reuse. Restorable or recycled materials are used for saving resources, and no polyvinyl chloride is used. The name of the plastic package material is marked by a method that can be hardly erased.

6) No use of Ozone Depleting Substances (Class I)	
Assessment object: all articles delivered to CASIO	
<u>No Ozone Depleting Substances (Class I) are used in the production process.</u> * Check Appendix 2 of this document for a detailed list of ozone depleting	•••• [10 pt / 0 pt]
substances (class I). Materials used in a hermetic environment such as CFC in refrigerators and halons in fire extinguishers are excluded.	
The object of this assessment is the chemicals used in the production process of the components in concern and discharged in the environment.	

7) Content of mercury

Assessment object: all articles delivered to CASIO

Report the content of mercury in weight (in mg unit) when mercury is intentionally added in the product delivered to CASIO. Fill "0 (zero)" when

- * "Intentionally add" means to add mercury for controlling characteristics, appearance and quality of the components by taking advantage of chemicals. Mercury having no possibility to remain in the articles delivered to CASIO by evaporation and reaction is not considered to be "intentionally added" even when the chemicals are used in the production process.
- * We request report of the total amount (mg) of mercury as well as the concentration(wt%) for each material constituting the components.(product assessment item (10))

8) Heavy metals contained in battery

Assessment object: articles delivered to CASIO including batteries (reply "No" in the cell of "battery" when no batteries are used).

<u>The weight of mercury should be less than the criteria below when the article delivered to CASIO contains batteries.</u>

Criteria: batteries other than button cells ···· 0.0005% mercury of the weight of the battery cell button cell battery ···· 2% mercury of the weight of the battery cell

Reply "Y" when the contents of lead and cadmium are less than the criteria below, and "N" when the contents exceed the proportions below.

Criteria: lead ···· 0.4% lead of the weight of the battery cell cadmium ···· 0.025% cadmium of the weight of the battery cell ··· [10 pt / 0 pt]

•••• [10 pt / 0 pt]

9) Heavy metal contained in packaging compoinents

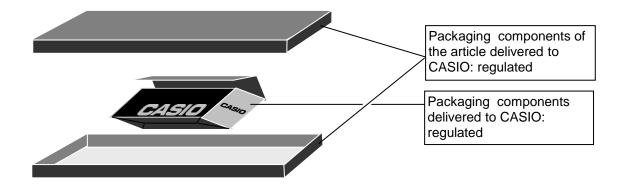
Assessment object: Packaging components of articles delivered to CASIO including the packaging components themselves.

The contents of heavy metals should be below the following criteria in the packaging components of articles and package materials delivered to CASIO.

•••• [10 pt / 0 pt]

Criteria: The total weight of lead, mercury, hexavalent chromium or cadmium should be 0.01% by weight for each of the homogeneous materials (base material, ink, adhesive, etc.) that make up the packaging materials.

Inclusion rate for packaging materials = Weight of the 4 substances (total value) included in homogeneous material of the packaging material weight of homogeneous material of the packaging material



10) Chemical substances contained in the article

Assessment object: all articles delivered to CASIO

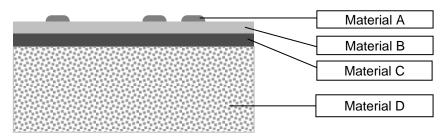
Survey the chemical substances contained in the articles delivered to CASIO, and report the results.

- The chemical substances to be surveyed are listed in "List of Chemical Substances for CASIO Green Procurement" in Appendix 1 and Appendix 2. The substances are classified into the two categories shown below according to their control levels.

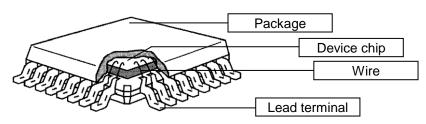
Bunned Substances	Delivery of components containing these chemical substances are immediately prohibited
Substances for Reduction	Confirm the present conditions of components containing these chemical substances, and try to reduce the content of these chemical substances.

- Numerical values of the concentration (unit: wt%) of the chemical substances per "homogeneous material" constituting the part delivered to CASIO should be surveyed and reported. Materials containing evenly mixed substances are named as "homogenous material". For example, respective materials A to D are considered "homogeneous materials". Plated and coated films are considered to be independent materials.

Oxide layers and nitride layers formed on the surface of metals are considered to be the same materials as the substrate metals.



- In the case of electronic parts, we request to investigate and report the content of chemicals for each homogeneous material such as metals, plastics, ceramics and glass. Solders for internal joints, inks for surface printing and plating materials may be considered as independent materials.



- The consentration of chemical substances should be reported by significant figures in two digits.

- When the concentration of chemical substances is not uniform, as when fabrication is by multiple plants, report the guaranteed maximum value.

- When the threshold is defined as "xx wt%", report the concentration of the substances irrespective of intentionally or unintentionally added (report including unintentionally mingled impurities). Report the concentration of intentionally added chemical substances when the threshold is expressed as "intentionally added".
- * Chemical substances contained in the material include those intentionally added and impurities unintentionally added. "Intentionally added" means that the chemical substances are added for controlling characteristics, appearance and quality of the part by taking advantage of the substances. Substances not remaining in the articles delivered to CASIO by evaporation and reaction are not considered to be "intentionally added", even when the substances are used in the production process.
- Even though the concentration of the substances is with the threshold or less, report the concentration of intentionally added chemical substances if any. Report is not required when there are no intentionally added chemical substances and the concentration of the chemical substances is evidently less than the threshold.

Where none of the substances being surveyed are present in amounts that exceed the threshold values, report that none of the chemical substances are present.

* Correspondence based on a different standard from the standard of CASIO Green Procurement may be requested in specified products for management of survey of chemicals, and prohibition and abolishment.

(2) Evaluation and Selection of Green Components

Assessment and Preferential Procurement on Green Components will be determined, for the time being, in terms of

content of the chemical substances as the first priority and Green Component Evaluation ranking as the second priority.

[4] Request for Suppliers

We repeatedly request the suppliers to collaborate surveillance of CASIO Green Procurement.

 Compliance with the EU REACH Regulation Under the EU REACH regulations, the provision of content information is stipulated for chemical substances on the SVHC (Substances of Very High Concern) candidates list.

ECHA (European Chemicals Agency) SVHC Candidates List

http://echa.europa.eu/chem_data/candidate_list_table_en.asp

If you are aware of chemical substances on the above list contained in the materials or components you supply, please notify Casio at the following address:

casio_green_procurement@casio.co.jp

Chapter 3 Others

- This manual shall be revised as necessary in accordance with changes in society, advancements in technology and access to new information.
- We ask for your cooperation should we request permission to disclose certain environmental information you possess in line with the aims of this manual.
- Please refer questions regarding this manual to CASIO purchasing division.

CASIO Green Procurement E-mail: casio_green_procurement@casio.co.jp

[List of Chemical Substances Group for CASIO Green Procurement]

This list includes chemical substances as objects of surveillance of content in CASIO products. The chemicals as the object of surveillance are classified into two groups depending on their control level.

Prohibited Substances	Delivery of components containing these substances more than the threshold are immediately
Tionibited Substances	prohibited
Substances for Reduction	Confirm the present conditions of components containing these substances, and try to reduce the
	content of these substances.

The "JGPSSI Classification No." in the following table corresponds to the classification No. defined by JGPSSI (Japan Green Procurement Survey Standardization Initiative).

Refer to the detailed list of the examples of the substances with respect to "Chemical Substances for CASIO Green Components (detailed)" in Appendix 2.

[Prohibited Substance Groups]

Delivery of components containing these chemical substances more than the threshold are prohibited.

Sub- stance group No.	Name of chemical substances group	Prohibited use	Delivery banned date	Threshold	Related legal restriction	Effect on human body, ecosystem and global environment	General use
1	Polybrominated biphenyl (PBBs)	all uses	imme- diate	0.1wt% (1000ppm)	RoHS Directive	carcinogen, reproductive toxicity, generation of dioxin upon combustion	flame retardant
2	Polybrominated diphenylether (PBDEs)	all uses	imme- diate	0.1wt% (1000ppm)	RoHS Directive REACH Reg.	generation of dioxin upon combustion	flame retardant
3	Polychlorinated Biphenyls (PCBs) and Polychlorinated Terphenyls (PCTs)	all uses	imme- diate	0.005wt% (50ppm)	REACH Reg., POPs Convention	carcinogen, oral toxicity	insulation oil of transformer and capacitor, pressure sensitive copy paper
4	Asbestos	all uses	imme- diate	Intentional addition	REACH Reg.	carcinogen, inhalation toxicity	fillers of paper/textile/rubber/plastics, pigment in paint, heat insulating material, electric insulator
5	Ozone depleting substances	all uses	imme- diate	Intentional addition	Montreal Protocol, Air Clean Law of USA	destruction of ozone layer	refrigerant foaming agent detergen tfire extinguisher
6	Pentachlorophenol (Objects of surveillance shall be wooden articles, leather and natural fiber, only.)	wooden articles, leather, natural fiber	imme- diate	0.0005wt% (5ppm)	German Chemicals Prohibition Ordinance	inhalation toxicity, oral toxicity	antiseptic insecticide (Items other than wooden articles, leather and natural fiber are out of surveillance objects.)
7	Cadmium and its compounds	All uses (excluding batteries, packaging materials and exempted uses (Appendix 3))	ate	0.01 wt% (100 ppm)	REACH Reg., RoHS Directive	Carcinogenicity , oral toxicity	Pigments, alloys, plating, PVC stabilizers, thick-film resistors in potentiometers, electrical contacts (relays, switches, fuses, motors, etc.), fluorescent materials, electrodes, solder
		Batteries (including storage batteries)	See Table 1	See Table 1	See Table 1		See Table 1
		Packaging materials	See Table 2	See Table 2	See Table 2		See Table 2

				r			
8	Hexavalent chromium compounds	All uses(excluding leather and packaging materials)	Immedi ate	0.1 wt% (1000 ppm)	RoHS Directive	Carcinogenicity , oral toxicity	Abrasives, pigments, photoengraving, plating, catalytic agents, paint driers
		Leather	1 Oct, 2015	0.0003 wt% (3 ppm) in leather part	REACH Reg.		leather tanning agents
		Packaging materials	See Table 2	See Table 2	See Table 2		See Table 2
9	Lead and its compounds	All uses (excluding batteries, packaging materials and exempted uses (Appendix 3))	Immedi ate	In rubber or plastics that touch end- users' hands: 0.03 wt% (300 ppm) Other than in rubber or plastics that touch end- users' hands: 0.1 wt% (1000 ppm)	RoHS Directive, Proposition 65	Carcinogenicity , inhalation toxicity, oral toxicity	Lead pipes. lead plate, electrical wire sheathing (PVC stabilizers), solder, rubber curing agents, rubber vulcanizing agents, high-melting- point solder inside electronic components, fuses, glass, pigments, lubricants, plastic alloy materials, X-ray shielding, ferroelectric materials, plating, resin additives
		Batteries (including storage batteries)	See Table 1	See Table 1	See Table 1		See Table 1
		Packaging materials	See Table 2	See Table 2	See Table 2		See Table 2
10	Mercury and its compounds	All uses (excluding batteries, packaging materials and exempted uses (Appendix 3))	Immedi ate	0.1 wt% (1000 ppm)	RoHS Directive	Carcinogenicity , inhalation toxicity, oral toxicity	Fluorescent tubes, cold-cathode tubes, ink pigments, corrosion inhibitors, fluorescent materials, electrical contact materials
		Batteries (including storage batteries)	See Table 1	See Table 1.	See Table 1		See Table 1
		Packaging materials	See Table 2	See Table 2	See Table 2		See Table 2
11	Azo dye, pigment *The surveillance object shall be only mechanical parts, excluding toner or ink of the printer, printed papers and CD-R.	use in direct contact with skin (casing of watch, strap and case of headphone and earphone)		tion of azo dye and pigment in the material should not exceed 0.003 wt% (30 ppm)*1	German Dairy Good Regulation	mutagen, inhalation toxicity, oral toxicity	dye, pigment (The toner or ink of the printer, printed papers and CD-R are excluded from the surveillance objects.)
12	Bis(tributyltin)oxide (TBTO)	All uses	imme- diate	(*1) Definition of Intentional addition	of specified amine Law concern. Ex. & Regul. Manuf. Chem. Subs.	· ·	oendix 2. ink, antiseptic, fungicide, pigment
13	Tri-substituted Organostannic Compounds	All uses	imme- diate	0.1% equivalent tin weight per supplied component	REACH Reg.	regenerative toxicity	stabilizer, antioxidant/anti-aging agent, bactericide, fungicide, decontamination agent
14	Polychlorinated naphthalene (chlorine number of 3 or more)	All uses	imme- diate	Intentional addition	POPs Convention	Inhalation toxicity, oral toxicity	antiseptic, insecticide lubricating oil, paint

15	Short chain chloribated pa (carbon 10-13)	raffin	All uses	imme- diate	0.1wt% (1000 ppm)	POPs Convention	Inhalation toxicity, oral toxicity	flame retardant, plasticizer, leather greasing agent
16	Radioactive substance		All uses	imme- diate	Intentional addition	Law of Regulation of Nuclear Reactor	destruction of gene by radiation	optical glass (thorium)
27	PFOS and its s		All uses (excluding exempted uses (Appendix 3))	imme- diate	Per supplied component less than 0.1 wt%(1000 ppm)	Convention on POPs	Oral toxicity	Surfactants, detergents, lubricants
28	2-(2H-1,2,3- Benzotriazol- 2-yl)-4,6-di- tert- butylphenol	using cl substar Chemic Law" (plastic board, a of plant and fille obstruc paints, o	Idated for "products ass I specific chemical aces" in "Japanese al Substances Control molding, decorative adhesives (except those s and animals), putties ers for sealing or tion, printing inks and deodorant, wax, ink , photo paper)	imme- diate	Intentional addition	Law Concerning the Examination and Regulation of Manufacture, etc., of Chemical Substances	Oral toxicity	Ultraviolet absorbing agent
29	Dimethylfumar Fu)	ate(DM	All uses	imme- diate	0.00001wt% (0.1 ppm)	REACH Reg.	Dermal toxicity	Antifungal agent (wood, natural textiles, leather, desiccant bag)
30	Dibutyltin (DB1 compounds, Dioctyltin (DO1 compound	-	DBT: All uses (excluding exempted uses (Appendix 3)) DOT: Uses involving direct contact with the skin	imme- diate	0.1% equivalent tin weight per supplied component	REACH Reg.	DBT: reproductive toxicity DOT: dermal toxicity	PVC stabilizer, curing catalyst for silicone resin and urethane resin
31	Hexabromocyc cane (HBCD)	clodode	All uses	1 Oct, 2015	Intentional addition	POPs Convention	Persistent, bioaccumulativ e	Flame retardants such as expanded polystyrene, curing accelerator of adhesive, coating of textile
32	PFOA and indi salts and ester PFOA		All uses	1 Oct, 2015	Per supplied component 0.1 wt%(1000 ppm)	Norway domestic law	Oral toxicity	Surfactants, detergents, lubricants
33	Polycyclic arol hydrocarbons		In rubber or plastics that touch end-users' hands	1 Oct, 2015	0.0001wt% (1 ppm)	REACH Reg.	Carcinogenic	Rubber additive, carbon black impurities
34	Specific phtha (DEHP, DBP, B DIBP)		All uses	1 Jul, 2018	0.1% (1000ppm) for each phthalates (DEHP, DBP, BBP, DIBP)	RoHS Directive	Reproductive toxicity	PVC plasticizer resin additive, dye, pigment, adhesive, lubricant

[Substances Groups for Reduction]

Confirm the present conditions of components containing these chemical substances,

and try to reduce the content of these substances.

Sub- stance group No.	Name of chemical substances group	Prohibited use	Delivery banned date	Threshold	Related legal restriction	Effect on human body, ecosystem and global environment	General use
17	Antimony and its compounds	-	-	Intentional addition	Law of Safety of Labor	oral toxicity	semiconductor, plating, alloy, flame retardant, solder, pigment, resin additive, catalyst, stabilizer
18	Arsenic and its compounds	-	-	Intentional addition	REACH Reg.	carcinogen, oral toxicity	high purity semiconductor, low purity alloy additive (metallic arsenic), antiseptic of wood, antiseptic of leather, dye, pigment, glass defoaming agent, fire retardant, copper foil surface treatment agent
19	Beryllium and its compounds	-	-	Intentional addition	-	carcinogen, oral toxicity	alloy base, ceramic, catalyst, spring material, solder
20	Nickel and its compounds * Except alloy (stainless steel etc.) * The surveillance objects shall be only mechanical components, excluding the nickel used in the final products, such as batteries, electronic		-	Intentional addition	REACH Reg.	carcinogen, oral toxicity	catalyst, mordant, coloring agent, plating, pigment, resin plasticizer electrode (Alloy and the nickel of batteries, electronic components and PWB are excluded from the surveillance objects.)
21	Selenium and its compounds	-	-	Intentional addition	-	oral toxicity	semiconductor, pigment, catalyst, resin plasticizer electrode, conductor printing paste material, magnetic thin film material
22	Brominated flame retardant (except PBB, PBDE)	-	-	Intentional addition	-	generate dioxin upon combustion	flame retardant, package sealant
23	Poly vinyl chloride (PVC)	-	-	Intentional addition	-	generate dioxin upon combustion	resin, wire material, insulating material
24	Phthalates (except DEHP, DBP, BBP and DIBP)	-	-	Intentional addition	-	Reproductive toxicity	PVC plasticizer resin additive, dye, pigment, adhesive, lubricant
25	Creosote * Only for wooden article.		-	Intentional addition	REACH Reg.	inhalation toxicity	preservative of wood
26	Formaldehyde * Only for wooded article		-	Intentional addition	German Chemicals Prohibition Ordinance, Denmark formalin regulation	inhalation toxicity	adhesive of polywood and wall paper, resin

Table 1 Prohibited Substances Groups in Batteries

It is prohibited to supply batteries with content levels that exceed the threshold levels for prohibited uses, or to supply products that include such batteries, except where those uses are exempted.

Sub- stance group No.	Name of chemical substances group	Prohibited use	Delivery banned date	Threshold (*Note)	Related legal restriction	General use
7	Cadmium	Alkaline manganese batteries, nickel cadmium batteries, alkaline secondary batteries, nickel- hydrogen batteries (excluding button cells)	imme- diate	(10 ppm)	EU battery directives, Argentine battery regulations, Korean battery regulations, Brazilian battery	(Examples of prohibited uses) Batteries, storage batteries, battery backs or storage battery packs, regardless of whether they are portable and regardless of whether they are incorporated into appliances (Exempted uses) Portable batteries or storage batteries intended for designated uses
		Batteries other than the above	imme- diate	0.002 wt% (20 ppm)		(cordless power tools, medical equipment and emergency warning devices, including emergency lighting
9	Lead	Alkaline manganese batteries	imme- diate	0.1 wt% (1000 ppm)	Argentine battery regulations, Korean battery	(Examples of prohibited uses) Batteries, storage batteries, battery backs or storage battery packs, regardless of whether they are
		Primary batteries other than alkaline or manganese batteries	imme- diate	0.2 wt% (2000 ppm)	regulations, Brazilian battery regulations	portable and regardless of whether they are incorporated into appliances (Exempted uses) None
		Alkaline secondary batteries, nickel-hydrogen batteries	imme- diate	0.4 wt% (4000 ppm)		
10	Mercury	Alkaline manganese batteries, nickel cadmium batteries, alkaline secondary batteries, nickel- hydrogen batteries (excluding button cells)	imme- diate	0.0001 wt% (1 ppm)	EU battery directives, Argentine battery regulations, Korean battery regulations, Brazilian battery regulations, U.S.	(Examples of prohibited uses) Batteries, storage batteries, battery backs or storage battery packs, regardless of whether they are incorporated into appliances (Exempted uses) None
		Button cells	imme- diate	2 wt% (20000 ppm)	battery regulations, Paraguay battery regulations	
		Other batteries	imme- diate	0.0005 wt% (5 ppm)		
		All batteries	imme- diate	25 mg		

(*Note) Numeric values are set as the threshold levels (threshold value: rate of inclusion) for battery uses.

Note that the approach for inclusion rates differs from other uses.

* Battery inclusion rates are calculated taking the weight of the included substance as a proportion of the total battery weight.

Weight of the chemical substance included in the battery

Battery inclusion rate = $-\frac{1}{100}$

Battery weight

Table 2 Prohibited Substances Groups in Packaging Materials

It is prohibited to supply packaging materials with content that exceeds the threshold levels for prohibited uses, or to supply products that include such packaging materials, except where those uses are exempted.

Sub- stance group No.	Name of chemical substances group		Delivery prohibited date	Threshold (*Note)	Related legal restriction	General uses including prohibited uses
7, 8, 9, 10	Cadmium, hexavalent chromium, lead, mercury	Packaging materials	immediate	as a proportion of the homogeneous	materials directives, US state regulations covering heavy metals in	(Examples of prohibited uses) Casio deliverables (packaging materials used by Casio), packaging for Casio deliverables and component materials used as supplementary materials during packaging (Exempted uses) Packaging materials that have been recovered or recycled under the management of the supplier

(*Note) Previously, the threshold has been calculated using the entire amount of packaging materials as the denominator, but as of edition 7, the inclusion rate for each homogeneous material is also applied to packaging material uses. The inclusion rate for packaging materials is taken as the weight of the 4 substances (total value) as a proportion of the weight of each of the homogeneous material of the packaging material (polyethylene sheet portion, ink, adhesive, etc.).

Inclusion rate for packaging materials = Weight of the 4 substances (total value) included in homogeneous material of the packaging material Weight of homogeneous material of the packaging material

[List of Chemical Substances for CASIO Green Components (Detailed)]

List of Chemical Substances for CASIO Green Components (Detailed)

This list contains only important substances belong to "List of Chemical Substances for CASIO Green Components (Detailed)" (Page8-9), and not all of them. If Component contains corresponded substance which is out of this list, it must be summed up.

Names and CAS Numbers of Chemical Substances

Please confirm the CAS number as there are multiple names for chemical substances. CAS numbers are used by the American Chemical Society's Chemical Abstracts Service (CAS) to distinguish chemical substances. While the names for chemical substances may vary, the same chemical substance can be determined if the CAS numbers are consistent.

[Prohibited Substances]

SUB- STANCE GROUP No.		Chemical Substance Name (Detailed)	CAS No	conversion coefficient
1	PBBs (polybrominated biphenyls)		
	DiBB		13029-09-9	1.000
	TeBB		40088-45-7	1.000
	HxBB		59536-65-1	1.000
	OBB		27858-07-7	1.000
	DeBB		13654-09-6	1.000
2	PBDEs	(polybrominated diphenyl ethers)	•	
	DiBDE		2050-47-7	1.000
	TrBDE		49690-94-0	1.000
	TeBD		40088-47-9	1.000
	PeBD		32534-81-9	1.000
	HxBDI		36483-60-0	1.000
	OBDE		32536-52-0	1.000
	NBDE		63936-56-1	1.000
	DeBD		1163-19-5	1.000
3	PCBs/F			-
		lorinated biphenyls	1336-36-3	1.000
		lorinated terphenyls	61788-33-8	1.000
		PCBs/PCTs	-	1.000
1	Asbest		•	
	Aktino		77536-66-4	1.000
	Amosi		12172-73-5	1.000
	Antho		77536-67-5	1.000
	Chryse		12001-29-5	1.000
	Kroky		12001-28-4	1.000
	Tremo		77536-68-6	1.000
		asbestos	-	-
5		depleting substances		
		Trichlorofluoromethane	75-69-4	1.000
		Dichlorodifluoromethane (CFC 12)	75-71-8	1.000
		Chlorotrifluoromethane (CFC 13)	75-72-9	1.000
		Pentachlorofluoroethane (CFC 111)	354-56-3	1.000
		Tetrachlorodifluoroethane (CFC 112)	76-12-0	1.000
		Trichlorotrifluoroethane (CFC 113)	354-58-5	1.000
		1,1,2 Trichloro-1,2,2 trifluoroethane	76-13-1	1.000
		Dichlorotetrafluoroethane (CFC 114)	76-14-2	1.000
		Monochloropentafluoroethane (CFC 115)	76-15-3	1.000
			422-78-6	
		Heptachlorofluoropropane (CFC 211)	135401-87-5	1.000
		Hexachlorodifluoropropane (CFC 212)	3182-26-1	1.000
			2354-06-5	1 000
		Pentachlorotrifluoropropane (CFC 213)	134237-31-3	1.000
	class I	Tetrachlorotetrafluoropropane (CFC 214)	29255-31-0	1.000
	as	1.1.1.3-Tetrachlorotetrafluoropropane	2268-46-4	1.000
	сl	Trichloropentafluoropropane (CFC 215)	1599-41-3	1.000
		1,1,1-Trichloropentafluoropropane	4259-43-2	1.000
		1,2,3-Trichloropentafluoropropane	76-17-5	1.000
		Dichlorohexafluoropropane (CFC 216)	661-97-2	1.000
		Monochloroheptafluoropropane (CFC 217)	422-86-6	1.000
		Bromochlorodifluoromethane (Halon 1211)	353-59-3	1.000
		Bromotrifluoromethane (Halon 1301)	75-63-8	1.000
		Dibromotetrafluoroethane (Halon 2402)	124-73-2	1.000
		Carbon Tetrachloride (Tetrachloromethane)	56-23-5	1.000
		1,1,1,-Trichloroethane (methyl chloroform) and its isomers except 1,1,2-trichloroethane	74-83-9	1.000
		Bromomethane (Methyl Bromide)	74-83-9	1.000
				1.000
		Dibromofluoromethane	1868-53-7	1.000

		070 50 4	1 0 0 0
	Bromofluoromethane	373-52-4	1.000
	Tetrabromofluoroethane	306-80-9	1.000
	Tribromodifluoroethane	354-04-1	1.000
	Dibromotrifluoroethane Bromotetrafluoroethane	124-72-1	1.000
	Tribromofluoroethane	124-12-1	1.000
	Dibromodifluoroethane	75-82-1	1.000
	Bromotrifluoroethane	421-06-7	1.000
	Dibromofluoroethane	358-97-4	1.000
	Bromodifluoroethane	420-47-3	1.000
	Bromofluoroethane	762-49-2	1.000
	Hexabromofluoropropane	102 43 2	1.000
	Pentabromodifluoropropane		1.000
	Tetrabromotrifluoropropane		1.000
	Tribromotetrafluoropropane		1.000
	Dibromopentafluoropropane	431-78-7	1.000
class I	Bromohexafluoropropane	2252-78-0	1.000
as	Pentabromofluoropropane	2232 10 0	1.000
с]	Tetrabromodifluoropropane		1.000
	Tribromotrifluoropropane		1.000
	Dibromotetrafluoropropane		1.000
	Bromopentafluoropropane	460-88-8	1.000
	Tetrabromofluoropropane	400-00-0	1.000
	Tribromodifluoropropane	70192-80-2	1.000
	Dibromotrifluoropropane	431-21-0	1.000
	Bromotetrafluoropropane	679-84-5	1.000
	Tribromofluoropropane	75372-14-4	1.000
	Dibromodifluoropropane	460-25-3	1.000
	Bromotrifluoropropane	460-25-3	1.000
	Dibromofluoropropane	51584-26-0	1.000
	Bromodifluoropropane	51504-20-0	1.000
	Bromofluoropropane	1871-72-3	1.000
	Bromochloromethane	74-97-5	1.000
		75-43-4	
	Dichlorofluoromethane (HCFC 21)		1.000
	Chlorodifluoromethane (HCFC 22) Chlorofluoromethane (HCFC 31)	75-45-6 593-70-4	1.000
	Tetrachlorofluoroethane (HCFC 31)	134237-32-4	1.000
	1,1,1,2-tetrachloro-2-fluoroethane (HCFC 121a)	<u>354-11-0</u> 354-14-3	1.000
	1,1,2,2-tetracloro-1-fluoroethane Trichlorodifluoroethane (HCFC 122)	41834-16-6	1.000
	1,2,2-trichloro-1,1-difluoroethane	354-21-2	1.000
	1,2,2-thenioro-1,1-diffuoroethane		
	Diable retriftue reactions (HCEC 122)		
	Dichlorotrifluoroethane(HCFC 123)	34077-87-7	1.000
	Dichloro-1,1,2-trifluoroethane	34077-87-7 90454-18-5	1.000 1.000
	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane	34077-87-7 90454-18-5 306-83-2	1.000 1.000 1.000
	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a)	34077-87-7 90454-18-5 306-83-2 354-23-4	1.000 1.000 1.000 1.000
	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4	1.000 1.000 1.000 1.000 1.000
	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4	1.000 1.000 1.000 1.000 1.000 1.000 1.000
	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4 63938-10-3	1.000 1.000 1.000 1.000 1.000 1.000 1.000
1	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,1,2-tetrafluoroethane	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4 63938-10-3 2837-89-0	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
s II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4 63938-10-3 2837-89-0 354-25-6	1.000 1.000 1.000 1.000 1.000 1.000 1.000
ass II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,1,2-tetrafluoroethane	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2;	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6)	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 131b)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,2,2-tetrafluoroethane 1-fluoro-1,2,2-tetrafluoroethane 1,1,1-trichloro-2-fluoroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132) 1,2-dichloro-1,1-difluoroethane (HCFC 132b)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132b) 1,2-dichloro-1,1-difluoroethane (HCFC 132b) 1,1 -dichloro-1,2-difluoroethane (HCFC 132c)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chlorofluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132b) 1-Chloro-1,1-difluoroethane (HCFC 132b) 1,2-dichloro-1,2-difluoroethane (HCFC 132c) 1,1 - dichloro-2,2-difluoroethane	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132b) 1,2-dichloro-1,1-difluoroethane (HCFC 132b) 1,1-dichloro-1,2-difluoroethane (HCFC 132c) 1,1-dichloro-2,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132b) 1,2-dichloro-1,1-difluoroethane (HCFC 132b) 1,1 - dichloro-1,2-difluoroethane (HCFC 132c) 1,1 - dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane Chlorotrifluoroethane (HCFC 133)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,2-tetrafluoroethane 1-chloro-1,1,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132b) 1,2-dichloro-1,1-difluoroethane (HCFC 132b) 1,1 - dichloro-1,2-difluoroethane (HCFC 132c) 1,1 - dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane Chlorotrifluoroethane (HCFC 133) 1-chloro-1,2,2-trifluoroethane	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132b) 1,2-dichloro-1,1-difluoroethane (HCFC 132b) 1,1 - dichloro-1,2-difluoroethane (HCFC 132c) 1,1 - dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane Chlorotrifluoroethane (HCFC 133)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6 1330-45-6 75-88-7	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,2-tetrafluoroethane 1-chloro-1,1,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132b) 1,2-dichloro-1,1-difluoroethane (HCFC 132b) 1,1 - dichloro-1,2-difluoroethane (HCFC 132c) 1,1 - dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane Chlorotrifluoroethane (HCFC 133) 1-chloro-1,2,2-trifluoroethane	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6 75-88-7 1717-00-6;	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,1,2-tetrafluoroethane 1-chloro-1,1,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1,1,2,2-tetrafluoroethane (HCFC 131b) 1-chloro-1,2,2-trichloroethane (HCFC 132b) 1,1,1-trichloro-2-fluoroethane (HCFC 132b) 1,2-dichloro-1,1-difluoroethane (HCFC 132b) 1,1-dichloro-2,2-difluoroethane (HCFC 132b) 1,1-dichloro-2,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane Dichlorofluoroethane(HCFC 141)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6 75-88-7 1717-00-6; (25167-88-8)	1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,1,2-tetrafluoroethane 1-chloro-1,1,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1,1,2,2-tetrafluoroethane (HCFC 131b) 1-chloro-1,2,2-trichloroethane (HCFC 132b) 1,1,1-trichloro-2-fluoroethane (HCFC 132b) 1,2-dichloro-1,1-difluoroethane (HCFC 132b) 1,1-dichloro-2,2-difluoroethane (HCFC 132b) 1,1-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 2-chloro-1,2,2-trifluoroethane 1,2-dichloro-1,2-difluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 1-chloro-1,2,2-trifluoroethane 2-chloro-1,1,1-trifluoroethane (HCFC 133a) Dichlorofluoroethane(HCFC 141b)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6 75-88-7 1717-00-6; (25167-88-8) 1717-00-6	1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chloroettrafluoroethane (HCFC 124) 2-chloro-1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,2,2-trichloroethane 1,1-trichloro-2,2-fluoroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1,1,1-difluoroethane (HCFC 132b) 1,1-dichloro-1,2-difluoroethane (HCFC 132b) 1,1-dichloro-2,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 1,2-dichloro-1,2-tifluoroethane 1,2-dichloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 1,2-dichloro-1-fluoroethane 2-ch	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6 75-88-7 1717-00-6; (25167-88-8) 1717-00-6 430-57-9	1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-tetrafluoroethane (HCFC 124b) 2-chloro-1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a) Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132b) 1,2-dichloro-1,1-difluoroethane (HCFC 132b) 1,1-dichloro-1,2-difluoroethane (HCFC 132c) 1,1-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane (HCFC 133a) 1-chloro-1,2,2-trifluoroethane (HCFC 133a) Dichlorofluoroethane(HCFC 141) 1,1-dichloro-1-fluoroethane (HCFC 141b) 1,2-dichloro-1-fluoroethane (HCFC 141b) 1,2-dichloro-1-fluoroethane (HCFC 142)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6 75-88-7 1717-00-6; (25167-88-8) 1717-00-6 430-57-9 25497-29-4	1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,2,2-tetrafluoroethane 1,1-trichloro-2,2-tetrafluoroethane 1,1,1-trichloro-2-fluoroethane 1,1,1-trichloro-2-fluoroethane 1,1,1-trichloro-2-fluoroethane (HCFC 131b) 1-Chloro-1,1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC 132b) 1,2-dichloro-1,1,1,0-trifluoroethane (HCFC 132b) 1,1-dichloro-1,2-difluoroethane (HCFC 132c) 1,1-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 2-chloro-1,2,2-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6 75-88-7 1717-00-6; (25167-88-8) 1717-00-6 430-57-9 25497-29-4 75-68-3	1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,2,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124b) 2-chloro-1,1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,2,2-trichloroethane 1,1-trichloro-2,2-trichloroethane 1,1,1-trichloro-2,2-trichloroethane 1,1,1-trichloro-2,1,1,1,2/Eterafluoroethane 1,1,1-trichloro-2,2-trichloroethane 1,1,1-trichloro-2,2-trichloroethane (HCFC 132b) 1,1-dichloro-1,1,1,1/Eterafluoroethane (HCFC 132c) 1,1-dichloro-1,2-difluoroethane (HCFC 132c) 1,1-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 2-chloro-1,1,2-trifluoroethane 2-chloro-1,1,1-trifluoroethane 1-chloro-1,2,2-trifluoroethane 2-chloro-1,1,1-trifluoroethane 1-chloro-1,2,2-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluor	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6 1330-45-6 1717-00-6; (25167-88-8) 1717-00-6 430-57-9 25497-29-4 75-68-3 25497-29-4	1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,2,2-trichloroethane 1,1-trichloroethane (HCFC 131b) 1-Fluoro-1,2,2-trichloroethane (HCFC 131b) 1-Chloro-1-fluoroethane (HCFC 132b) 1,1-trichloro-2.fluoroethane (HCFC 132b) 1,1-dichloro-1,2-difluoroethane (HCFC 132c) 1,1-dichloro-2,2-difluoroethane 1,2-dichloro-1,2,2-trifluoroethane 1,2-dichloro-1,2,2-difluoroethane 1,2-dichloro-1,2,2-difluoroethane 1,2-dichloro-1,2,2-trifluoroethane 1,2-dichloro-1,2,2-trifluoroethane 1,2-dichloro-1,2,2-trifluoroethane 1,2-dichloro-1,2,2-trifluoroethane 1,2-dichloro-1,1,2-tifluoroethane 1,1-dichloro-1,2,2-trifluoroethane 1,2-dichloro-1,1,1-trifluoroethane 1,1-dichloro-1,1,1,1-trifluoroethane (HCFC 133a)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6 1330-45-6 1330-45-6 1717-00-6; (25167-88-8) 1717-00-6 430-57-9 25497-29-4 75-68-3 25497-29-4 134237-35-7	1.000 1.000
class II	Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,2,2-trifluroethane (HCFC 123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC 123b) 2,2-dichloro-1,1,2,2-trifluroethane (HCFC 123b) Chlorotetrafluoroethane (HCFC 124b) 2-chloro-1,1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane 1-chloro-1,2,2-trichloroethane 1,1-trichloro-2,2-trichloroethane 1,1,1-trichloro-2,2-trichloroethane 1,1,1-trichloro-2,1,1,1,2/Eterafluoroethane 1,1,1-trichloro-2,2-trichloroethane 1,1,1-trichloro-2,2-trichloroethane (HCFC 132b) 1,1-dichloro-1,1,1,1/Eterafluoroethane (HCFC 132c) 1,1-dichloro-1,2-difluoroethane (HCFC 132c) 1,1-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 1,2-dichloro-1,2-difluoroethane 2-chloro-1,1,2-trifluoroethane 2-chloro-1,1,1-trifluoroethane 1-chloro-1,2,2-trifluoroethane 2-chloro-1,1,1-trifluoroethane 1-chloro-1,2,2-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluoroethane 2-chloro-1,1,1-trifluor	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 63938-10-3 2837-89-0 354-25-6 27154-33-2; (134237-34-6) 359-28-4 811-95-0 1615-75-4 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 1330-45-6 1330-45-6 75-88-7 1717-00-6; (25167-88-8) 1717-00-6 430-57-9 25497-29-4 75-68-3 25497-29-4	1.000 1.000

		407504.00.5	4 000
	Dichloropentafluoropropane, (Ethyne, fluoro-) (HCFC 225) 2,2-Dichloro-1,1,1,3,3-pentafluoropropane (HCFC 225aa)	<u>127564-92-5;</u> 128903-21-9	1.000
	2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC 225aa)	422-48-0	1.000
	1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225bb)	422-46-0	1.000
	3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC 225ca)	422-56-0	1.000
	1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC 225cb)	507-55-1	1.000
	1,1-Dichloro-1,2,2,3,3-pentafluoropropane (HCFC 225cc)	13474-88-9	1.000
	1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC 225da)	431-86-7	1.000
	1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225ea)	136013-79-1	1.000
	1,1-Dichloro-1,2,3,3,3-pentafluoropropane (HCFC 225eb)	111512-56-2	1.000
	Chlorohexafluoropropane (HCFC 226) Pentachlorofluoropropane (HCFC 231) Tetrachlorodifluoropropane (HCFC 232)	134308-72-8	1.000
	Pentachlorofluoropropane (HCFC 231)	134190-48-0	1.000
		134237-39-1	1.000
	Trichlorotrifluoropropane (HCFC 233)	134237-40-4	1.000
	1,1,1-Trichloro-3,3,3-trifluoropropane	7125-83-9	1.000
	Dichlorotetrafluoropropane (HCFC 234)	127564-83-4 134237-41-5	1.000
	Chloropentafluoropropane (HCFC 235) 1-Chloro-1,1,3,3,3-pentafluoropropane	460-92-4	1.000
	Tetrachlorofluoropropane (HCFC 241)	134190-49-1	1.000
	Trichlorodifluoropropane (HCFC 241)	134237-42-6	1.000
	Dichlorotrifluoropropane (HCFC 243)	134237-42-0	1.000
	1,1-dichloro-1,2,2-trifluoropropane	7125-99-7	1.000
	2,3-dichloro-1,1,1 -trifluoropropane	338-75-0	1.000
	3,3-Dichloro-1,1,1-trifluoropropane	460-69-5	1.000
	Chlorotetrafluoropropane (HCFC 244)	134190-50-4	1.000
1	3-chloro-1,1,2,2-tetrafluoropropane	679-85-6	1.000
	Trichlorofluoropropane (HCFC 251)	134190-51-5	1.000
	1,1,3-trichloro-1-fluoropropane	818-99-5	1.000
	Dichlorodifluoropropane (HCFC 252)	134190-52-6	1.000
	Chlorotrifluoropropane (HCFC 253)	134237-44-8	1.000
	3-chloro-1,1,1-trifluoropropane (HCFC 253fb)	460-35-5	1.000
	Dichlorofluoropropane (HCFC 261)	134237-45-9	1.000
	1,1-dichloro-1-fluoropropane	7799-56-6	1.000
	Chlorodifluoropropane (HCFC 262)	134190-53-7	1.000
	2-chloro-1,3-difluoropropane	102738-79-4	1.000
	Chlorofluoropropane (HCFC 271)	134190-54-8	1.000
	2-chloro-2-fluoropropane	420-44-0	1.000
6	Pentachlorophenol	87-86-5	
Li		07-00-5	
7	Cadmium and its compounds		1 000
7	Cadmium and its compounds Cadmium	7440-43-9	1.000
7	Cadmium and its compounds Cadmium Cadmium chloride	7440-43-9 10108-64-2	0.613
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide	7440-43-9 10108-64-2 1306-19-0	0.613 0.875
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium	7440-43-9 10108-64-2 1306-19-0 592-02-9	0.613 0.875 0.659
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1	0.613 0.875 0.659 0.789
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6	0.613 0.875 0.659 0.789 0.413
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1	0.613 0.875 0.659 0.789 0.413 0.475
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7	0.613 0.875 0.659 0.789 0.413
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1)	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1) Cadmium fluoride	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0	0.613 0.875 0.659 0.789 0.413 0.475 0.652
8	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1) Cadmium fluoride Cadmium sulfide	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium fluoride Cadmium sulfide Other cadmium compounds	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium fluoride Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium fluoride Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 -
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium fluoride Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - 0.268 0.333
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium fluoride Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - 0.268 0.333 0.321
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium carbonate (1:1) Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - 0.268 0.333 0.321 0.161
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium bromide Cadmium carbonate (1:1) Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Dichromicacid Ammonium dichromate Potassium dichromate	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - 0.268 0.333 0.321 0.161 0.477
8	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium bromide Cadmium carbonate (1:1) Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Sodium chromate Dichromicacid Ammonium dichromate Potassium dichromate Other chromium (VI) compounds	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - 0.268 0.333 0.321 0.161 0.477 0.413
7	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1) Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Lead chromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromitacid Lead and its compounds	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium bromide Cadmium carbonate (1:1) Cadmium carbonate (1:1) Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium (VI) compounds Potassium chromate Calcium chromate Sodium chromate Lead chromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromium (VI) compounds Lead and its compounds	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 -	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium bromide Cadmium store Cadmium fluoride Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Lead chromate Dichromium(VI) compounds Lead and its compounds Lead (II) oxide	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium fluoride Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromite Dichromate Dichromate Dichromate Dichromate Dichromate Dichromite Other chromite Dichromite Dichromite Dichromite Dichromite Dichromite Dichromite <t< td=""><td>7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 77789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6</td><td>0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -</td></t<>	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 77789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium furmate Cadmium nitrate Cadmium carbonate (1:1) Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromized Lead ntis compounds Lead and its compounds Lead (II) oxide Lead (II) fluoro silicate Lead acetate	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 77789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium promide Cadmium nitrate Cadmium carbonate (1:1) Cadmium sulfide Other cadmium compounds Chromium (VI) compounds Potassium chromate Calcium chromate Sodium chromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromized Lead chromate Dichromium(VI) compounds Lead chromate Lead chromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromicacid Ammonium (VI) compounds Lead Lead (II) oxide Lead Lead(II) oxide Lead (II) fluoro silicate Lead (II) nitrate	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1) Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Dichromicacid Ammonium dichromate Other chromium(VI) compounds Lead chromate Dichromicacid Ammonium dichromate Other chromium(VI) compounds Lead Lead nits compounds Lead Lead (II) oxide Lead Lead(II) fluoro silicate Lead(II) nitrate Lead (II) nitrate Lead hydroxide	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8 39345-91-0	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium cloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1) Cadmium suffide Other cadmium compounds Chromium(VI) compounds Chromium(VI) compounds Calcium chromate Sodium chromate Dichromicacid Ammonium dichromate Dichromium(VI) compounds Lead chromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromicacid Ammonium dichromate Detasium dichromate Dichromicacid Ammonium dichromate Dichromicacid Lead Lead Other chromium(VI) compounds Lead	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8 39345-91-0 6080-56-4	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium chloride Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium bromide Cadmium carbonate (1:1) Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Dichromicacid Ammonium dichromate Other chromate Other chromate Lead chromate Dichromicacid Ammonium dichromate Other chromium(VI) compounds Lead Lead (II) oxide Lead Lead (II) oxide Lead Lead(II) nitrate Lead carbate tihydrate Lead carbonate	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8 39345-91-0 6080-56-4 598-63-0	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Diethylcadmium Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1) Cadmium gluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Sodium chromate Dichromicacid Ammonium dichromate Potassium dichromate Other chromium(VI) compounds Lead chromate Dichromicacid Ammonium dichromate Potassium dichromate Other chromium(VI) compounds Lead Lead <t< td=""><td>7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8 39345-91-0 6080-56-4 598-63-0 78-00-2</td><td>0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -</td></t<>	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8 39345-91-0 6080-56-4 598-63-0 78-00-2	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Diethylcadmium Cadmium bromide Cadmium bromide Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1) Cadmium fluoride Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Sodium chromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromicacid Ammonium dichromate Potassium dichromate Other chromium(VI) compounds Lead Lead and its compounds Lead Lead Lead Lead Lead Lead Lead Lead Lead(II) oxide Lead Lead acetate Lead acetate Lead acetate Lead acetate </td <td>7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8 39345-91-0 6080-56-4 598-63-0 78-00-2 75-74-1</td> <td>0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - 0.268 0.333 0.321 0.161 0.477 0.413 0.354 - 1.000 0.928 0.538 0.637 0.626 0.924 0.99 0.775 0.64 0.775</td>	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8 39345-91-0 6080-56-4 598-63-0 78-00-2 75-74-1	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - 0.268 0.333 0.321 0.161 0.477 0.413 0.354 - 1.000 0.928 0.538 0.637 0.626 0.924 0.99 0.775 0.64 0.775
8	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1) Cadmium suffide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromitac Quther chromitae Other chromitae Lead chromate Dichromicacid Ammonium dichromate Potassium dichromate Other chromium(VI) compounds Lead Lead (II) oxide Lead Lead (II) notize Lead and its compounds Lead Lead (II) nitrate Lead acetate Lead hydroxide Lead acetate trihydrate Lead carbonate Tetramethyl lead Tetramethyl lead	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8 39345-91-0 6080-56-4 598-63-0 78-00-2 75-74-1 7758-95-4	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - 0.268 0.333 0.321 0.161 0.477 0.413 0.354 - 1.000 0.928 0.538 0.637 0.626 0.924 0.99 0.775 0.64 0.775 0.745
8	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1) Cadmium carbonate (1:1) Cadmium sulfide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Calcium chromate Sodium chromate Dichromicacid Ammonium dichromate Potassium dichromate Dother chromium(VI) compounds Lead chromate Sodium chromate Lead chromate Dichromicacid Ammonium dichromate Other chromium(VI) compounds Lead Lead Other chromium(VI) compounds Lead Lead Uher chromium(VI) compounds Lead Lead Other chromium(VI) compounds Lead Lead Lead Lead Lead Lead	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 77758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8 39345-91-0 6080-56-4 598-63-0 78-00-2 75-74-1 7758-95-4	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - - - - - - - - - - - - - - - - - -
8	Cadmium and its compounds Cadmium Cadmium chloride Cadmium oxide Diethylcadmium Dimethylcadmium Cadmium bromide Cadmium bromide Cadmium nitrate Cadmium carbonate (1:1) Cadmium suffide Other cadmium compounds Chromium(VI) compounds Potassium chromate Calcium chromate Sodium chromate Dichromicacid Ammonium dichromate Potassium dichromate Dichromitac Quther chromitae Other chromitae Lead chromate Dichromicacid Ammonium dichromate Potassium dichromate Other chromium(VI) compounds Lead Lead (II) oxide Lead Lead (II) notize Lead and its compounds Lead Lead (II) nitrate Lead acetate Lead hydroxide Lead acetate trihydrate Lead carbonate Tetramethyl lead Tetramethyl lead	7440-43-9 10108-64-2 1306-19-0 592-02-9 506-82-1 7789-42-6 10325-94-7 513-78-0 7790-79-6 1306-23-6 - 7789-00-6 13765-19-0 7775-11-3 7758-97-6 13530-68-2 7789-09-5 7778-50-9 - 7439-92-1 1317-36-8 25808-74-6 301-04-2 10099-74-8 39345-91-0 6080-56-4 598-63-0 78-00-2 75-74-1 7758-95-4	0.613 0.875 0.659 0.789 0.413 0.475 0.652 0.747 0.778 - 0.268 0.333 0.321 0.161 0.477 0.413 0.354 - 1.000 0.928 0.538 0.637 0.626 0.924 0.99 0.775 0.64 0.775 0.745

	Llead oxide red	1314-41-6	0.907
	Lead sulfide	1314-87-0	0.866
	Lead(II) sulfate(1:1)	7446-14-2	0.683
	Lead(II) phosphate(3:2)	7446-27-7	0.766
	Lead hydroxidcarbonate	1344-36-1	0.801
	Lead chromate	7758-97-6	0.641
	Other lead compounds	-	-
)	Mercury and its compounds	<u> </u>	
	Mercury	7439-97-6	1.000
	Mercuric chloride	7487-94-7	0.739
	Phenylmercuric chloride	100-56-1	0.641
	Mercuric asetate	1600-27-7	0.629
	Mercuric oxide	21908-53-2	0.926
	Diethyl mercury	627-44-1	0.775
	Mercury(II) bromide	7789-47-1	0.557
	Mercury(II) iodide	7774-29-0	0.441
	Mercuric sulfate	7783-35-9	0.676
	Other mercury compounds	-	-
	Azo compounds (which may release the aromatic amines listed below, by reductive cleavage)		
	4-Aminoazobenzene	60-09-3	1.000
	o-anisidine	90-04-0	1.000
	2-naphthylamine	91-59-8	1.000
	3.3'-dichlorobenzidine	91-94-1	1.000
	biphenyl-4-ylamine	92-67-1	1.000
	Benzidine	92-87-5	1.000
	o-toluidine	95-53-4	1.000
	4-chloro-o-toluidine	95-69-2	1.000
	2,4-toluenediamine	95-89-2	1.000
	o-aminoazotoluene	97-56-3	1.000
		99-55-8	1.000
	5-nitro-o-toluidine	99-55-8 101-14-4	1.000
	3,3'-dichloro-4,4'-diaminodiphenylmethane		1.000
	4,4'-methylenedianiline	101-77-9	
	4,4'-diaminodiphenylether	101-80-4	1.000
	p-chloroaniline	106-47-8	1.000
	3,3'-dimethoxybenzidine	119-90-4	1.000
	3,3'-dimethylbenzidine	119-93-7	1.000
	2-methoxy-5-methylaniline	120-71-8	1.000
	2,4,5-trimethylaniline	137-17-7	1.000
	4,4'-thiodianiline	139-65-1	1.000
	4-methoxy-m-phenylenediamine		
	4-methoxy-m-phenylenediamine	615-05-4	1.000
	4,4'-methylenedi-o-toluidine	615-05-4 838-88-0	1.000 1.000
			1.000
	4,4'-methylenedi-o-toluidine	838-88-0	1.000
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide	838-88-0	1.000
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds	838-88-0 56-35-9	1.000 0.3982418
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride	838-88-0 56-35-9 1803-12-9 379-52-2	1.000 0.3982418 0.252
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin acetate	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8	1.000 0.3982418 0.252 0.322
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin acetate Triphenyltin chloride	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7	1.000 0.3982418 0.252 0.322 0.29 0.308
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin acetate Triphenyltin chloride Triphenyltin hydroxide	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin acetate Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt)	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin acetate Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt)	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin acetate Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt)	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.229
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin acetate Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt)	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.229 0.223
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt)	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.229 0.223 0.223 0.223
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin methacrylate	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.225 0.229 0.223 0.223 0.223 0.228 0.223
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid(9-11)salt) Triphenyltin fattyacid(9-11)salt) Triphenyltin fattyacid(9-11)salt) Triphenyltin fattyacid(9-11)salt) Triphenyltin fulloroacetate Tributyltin methacrylate Bis(tributyltin) fumalate	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.235 0.229 0.223 0.223 0.223 0.228 0.223 0.268 0.316 0.342
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid(9-11)salt) Triphenyltin fattyacid(9-11)salt) Triphenyltin fattyacid(9-11)salt) Triphenyltin fattyacid(9-11)salt) Triphenyltin fuloride	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.225 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.224 0.235
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin acetate Triphenyltin chloride Triphenyltin fattyacid((9-11)salt) Triphenyltin fulloride Bis(tributyltin methacrylate Bis(tributyltin fulloride Bis(tributyltin) fumalate Tributyltin fluoride Bis(tributyltin)2,3-dibromosuccinate	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.225 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.223 0.225 0.227 0.235
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin acetate Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fuloride Bis(tributyltin) fuloride Bis(tributyltin) fumalate Tributyltin fluoride Bis(tributyltin)2,3-dibromosuccinate Tributyltin acetate	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.225 0.223 0.223 0.223 0.268 0.316 0.342 0.384 0.278 0.34
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin acetate Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid(9-11)salt) Triphenyltin fattyacid(9-11)salt) Triphenyltin fluoride Bis(tributyltin) fumalate Tributyltin methacrylate Bis(tributyltin)2,3-dibromosuccinate Tributyltin acetate Tributyltin laurate	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.235 0.229 0.223 0.223 0.268 0.316 0.342 0.384 0.278 0.34 0.243
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin acetate Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fuctoroacetate Tributyltin methacrylate Bis(tributyltin) fumalate Tributyltin fluoride Bis(tributyltin)2,3-dibromosuccinate Tributyltin laurate Bis(tributyltin) phthalate	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.235 0.229 0.223 0.268 0.316 0.342 0.344 0.278 0.34 0.243 0.319
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin chloride Triphenyltin chloride Triphenyltin fattyacid((9-11)salt) Triphenyltin fultyacid Triphenyltin fattyacid Tributyltin methacrylate Bis(tributyltin) fumalate Tributyltin fluoride Bis(tributyltin)2,3-dibromosuccinate Tributyltin laurate Bis(tributyltin) phthalate Coplymer of alkyl (c=8) acrylate, methyl methacrylate and tributyltin methacrylate	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0 67772-01-4	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.225 0.223 0.223 0.268 0.316 0.342 0.344 0.278 0.34 0.243 0.319 0.18
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin acetate Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Tributyltin f	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0 67772-01-4 6517-25-5	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.225 0.223 0.223 0.268 0.316 0.342 0.344 0.278 0.34 0.243 0.349 0.243 0.319 0.18 0.307
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin chloride Triphenyltin chloride Triphenyltin fattyacid((9-11)salt) Triphenyltin fultyacid Triphenyltin fattyacid Tributyltin methacrylate Bis(tributyltin) fumalate Tributyltin fluoride Bis(tributyltin)2,3-dibromosuccinate Tributyltin laurate Bis(tributyltin) phthalate Coplymer of alkyl (c=8) acrylate, methyl methacrylate and tributyltin methacrylate	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0 67772-01-4	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.225 0.223 0.223 0.223 0.268 0.316 0.342 0.344 0.278 0.34 0.243 0.319 0.18 0.307 0.341
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin acetate Triphenyltin chloride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Tributyltin f	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0 67772-01-4 6517-25-5	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.225 0.223 0.223 0.268 0.316 0.342 0.344 0.278 0.34 0.243 0.349 0.243 0.319 0.18 0.307
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin chloride Triphenyltin phydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid(9-11)salt) Bis(tributylt	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0 67772-01-4 6517-25-5 14275-57-1	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.223 0.223 0.223 0.223 0.268 0.316 0.342 0.344 0.278 0.34 0.243 0.319 0.18 0.307 0.341
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin fluoride Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid(19-11)salt) Triphenyltin fattyacid(19-11)salt) Triphenyltin fattyacid(19-11)salt) Triphenyltin fattyacid(19-11)salt) Triphenyltin methacrylate Bis(tributyltin) fumalate Tributyltin fluoride Bis(tributyltin) funalate Tributyltin acetate Tributyltin acetate Tributyltin acetate Tributyltin laurate Bis(tributyltin) phthalate Coplymer of alkyl (c=8) acrylate	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0 67772-01-4 6517-25-5 14275-57-1 1461-22-9	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.225 0.229 0.223 0.268 0.316 0.342 0.344 0.278 0.34 0.349 0.341 0.307 0.341 0.365
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin acetate Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt) Triphenyltin fattyacid((9-11)salt) Triphenyltin fultyacid((9-11)salt) Triphenyltin fultyacid(10 Bis(tributyltin fultyacid(10 Bis(tributyltin fultyacid(10 Bis(tribu	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0 67772-01-4 6517-25-5 14275-57-1 1461-22-9 7342-38-3	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.229 0.223 0.268 0.316 0.342 0.342 0.344 0.342 0.344 0.243 0.349 0.341 0.307 0.341 0.305 0.365
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Trisbustituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin acetate Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fullycacetate Tributyltin methacrylate Bis(tributyltin) funalate Tributyltin fluoride Bis(tributyltin)2,3-dibromosuccinate Tributyltin acetate Tributyltin acetate Tributyltin aurate Bis(tributyltin) phthalate Coplymer of alkyl (c=8) acrylate, methyl methacrylate and tributyltin methacrylate Tributyltin culoride (A) Tributyltin chloride (B) Tributyltin chloride (B) Tributyltin cyclopentane carbonate = mixture <	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0 67772-01-4 6517-25-5 14275-57-1 1461-22-9 7342-38-3 85409-17-2	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.235 0.229 0.223 0.268 0.316 0.342 0.342 0.344 0.278 0.34 0.349 0.341 0.307 0.341 0.365 0.365 0.237
	4.4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Tri-substituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin acetate Triphenyltin acetate Triphenyltin hloride Triphenyltin hloride Triphenyltin fattyacid((9-11)salt) Triphenyltin fultoride Bis(tributyltin fultoride Bis(tributyltin methacrylate Bis(tributyltin) fumalate Tributyltin flooride Bis(tributyltin) fundate Tributyltin acetate Tributyltin acetate Tributyltin sulfamate Bis(tributyltin) phthalate Coplymer of alkyl (c=8) acrylate, methyl methacrylate and tributyltin methacrylate Tributyltin sulfamate Bis(tributyltin) maleate Tributyltin chloride (A)	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0 67772-01-4 6517-25-5 14275-57-1 1461-22-9 7342-38-3 85409-17-2	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.229 0.223 0.268 0.316 0.342 0.344 0.278 0.34 0.349 0.34 0.243 0.319 0.18 0.307 0.341 0.365 0.365 0.237
	4,4'-methylenedi-o-toluidine Bis(tri-n-butyltin) oxide Trisbustituted Organostannic Compounds Triphenyltin-N, N-dimethyldithiocarbamate Triphenyltin fluoride Triphenyltin fluoride Triphenyltin acetate Triphenyltin hydroxide Triphenyltin fattyacid((9-11)salt) Triphenyltin fullycacetate Tributyltin methacrylate Bis(tributyltin) funalate Tributyltin fluoride Bis(tributyltin)2,3-dibromosuccinate Tributyltin acetate Tributyltin acetate Tributyltin aurate Bis(tributyltin) phthalate Coplymer of alkyl (c=8) acrylate, methyl methacrylate and tributyltin methacrylate Tributyltin culoride (A) Tributyltin chloride (B) Tributyltin chloride (B) Tributyltin cyclopentane carbonate = mixture <	838-88-0 56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 18380-71-7 18380-72-8 47672-31-1 94850-90-5 7094-94-2 2155-70-6 6454-35-9 1983-10-4 31732-71-5 56-36-0 3090-36-6 4782-29-0 67772-01-4 6517-25-5 14275-57-1 1461-22-9 7342-38-3 85409-17-2	1.000 0.3982418 0.252 0.322 0.29 0.308 0.323 0.235 0.229 0.223 0.268 0.316 0.342 0.344 0.278 0.34 0.349 0.34 0.243 0.319 0.18 0.307 0.341 0.365 0.365 0.237

16	Radioactive substances		
	Uranium	I	1.000
	Plutonium		1.000
	Radon		
			1.000
	Americium		1.000
	Thorium		1.000
	Other radioactive substances	-	1.000
27	PFOS and its salts		
	PFOS and its salts	-	1.000
28	2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole	3846-71-7	1.000
29	Dimethylfumarate(DMFu)	624-49-7	1.000
30	Dibutyltin (DBT) compounds, Dioctyltin (DOT) compound		
	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
	Dioctyl Tin Oxide	870-08-6	0.329
	Dioctyltin dilaurate	3648-18-8	0.16
	Other Dibutyltin compounds or Dioctyltin compounds	-	1.000
81	Hexabromocyclododecane (HBCD)		
	Hexabromocyclododecane	25637-99-4	1.000
	1,2,5,6,9,10-Hexabromocyclododecane	3194-55-6	1.000
	rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	4736-49-6	1.000
	rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	65701-47-5	1.000
	α-Hexabromocyclododecane	134237-50-6	1.000
	β-Hexabromocyclododecane	134237-51-7	1.000
	y-Hexabromocyclododecane	134237-52-8	1.000
	(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-17-7	1.000
	(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-18-8	1.000
	(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-19-9	1.000
	(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	169102-57-2	1.000
	(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-15-5	1.000
	(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-16-6	1.000
	(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	678970-17-7	1.000
32	PFOA and individual salts and esters of PFOA	078970-17-7	1.000
2	Perfluorooctanoic acid (PFOA)	335-67-1	1.000
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	1.000
	Sodium salt of Perfluorooctanoic acid	335-95-5	1.000
	Potassium salt of Perfluorooctanoic acid	2395-00-8	1.000
	Silver(1+) salt of Perfluorooctanoic acid	335-93-3	1.000
	Perfluorooctanoyl fluoride	335-66-0	1.000
	Methyl perfluorooctanoate	376-27-2	1.000
	Ethyl perfluorooctanoate	3108-24-5	1.000
33	Polycyclic aromatic hydrocarbons (PAHs)		
3	Benzo[a]pyrene (BaP)	50-32-8	1.000
3	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP)	50-32-8 192-97-2	1.000 1.000
3	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA)	50-32-8 192-97-2 56-55-3	1.000 1.000 1.000
3	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrycene (CHR)	50-32-8 192-97-2 56-55-3 218-01-9	1.000 1.000 1.000 1.000
3	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA)	50-32-8 192-97-2 56-55-3	1.000 1.000 1.000 1.000 1.000
3	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrycene (CHR)	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3	1.000 1.000 1.000 1.000
3	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrycene (CHR) Benzo[b]fluoranthene (BbFA)	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2	1.000 1.000 1.000 1.000 1.000
3	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrycene (CHR) Benzo[b]fluoranthene (BbFA) Benzo[j]fluoranthene (BjFA)	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3	1.000 1.000 1.000 1.000 1.000 1.000
	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrycene (CHR) Benzo[b]fluoranthene (BbFA) Benzo[j]fluoranthene (BjFA) Benzo[k]fluoranthene (BkFA) Dibenzo[a,h]anthracene (DBAhA)	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9	1.000 1.000 1.000 1.000 1.000 1.000 1.000
	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrycene (CHR) Benzo[b]fluoranthene (BbFA) Benzo[j]fluoranthene (BjFA) Benzo[k]fluoranthene (BkFA)	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9 53-70-3	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrycene (CHR) Benzo[b]fluoranthene (BbFA) Benzo[j]fluoranthene (BjFA) Benzo[k]fluoranthene (BkFA) Dibenzo[a,h]anthracene (DBAhA) Specific phthalates (DEHP, DBP, BBP, DIBP) Bis (2-ethylhexyl) phthalate (DEHP)	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9 53-70-3 117-81-7	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
33	Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrycene (CHR) Benzo[b]fluoranthene (BbFA) Benzo[j]fluoranthene (BjFA) Benzo[k]fluoranthene (BkFA) Dibenzo[a,h]anthracene (DBAhA) Specific phthalates (DEHP, DBP, BBP, DIBP)	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9 53-70-3	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

[Substances for Reduction]

7			coefficien
	Antimony and its compounds		
	Antimony	7440-36-0	1.000
ļ	Antimony trichloride	10025-91-9	0.534
ļ	Antimony trioxide	1309-64-4	0.835
	Antimony pentoxide	1314-60-9	0.753
	Sodium antimonate	15432-85-6	0.632
	Other antimony compounds	-	-
8	Arsenic and its compounds	7440.00.0	1.000
-	Arsenic	7440-38-2	1.000
	Arsine	7784-42-1	0.961
	Pentachloroarsorane	22441-45-8	0.297
ŀ	Diarsenic pentoxide	1303-28-2	0.652
ŀ	Pentafluoro arsorane Arsenic trichloride	7784-36-3 7784-34-1	0.441
ŀ	Arsenic trioxide	1327-53-3	0.758
	Arsenic trifluoride	7784-35-2 1303-33-9	0.568
ŀ	Arsenic sulphide		0.609
ŀ	Dimethyl arsinic acid	75-60-5	0.543
ŀ	Arsenicacid Sodium arsonate dihasia	7778-39-4	0.528
ŀ	Sodium arsenate dibasic	7778-43-0	0.403
ŀ	Benzene arsonic acid	98-05-5 2321-53-1	0.371
ŀ	Ammonium methane arson acid		
-	Gallim arsenide	1303-00-0	0.518
)	Other arsenic compounds	-	-
,	Beryllium and its compounds	7440 44 7	1 000
-	Beryllium Beryllium ekleride	7440-41-7	1.000
ŀ	Beryllium chloride Beryllium silicate	7787-47-5 15191-85-2	0.113 0.164
-			
ŀ	Beryllium oxide	1304-56-9	0.360
-	Beryllium nitrate	13597-99-4	0.068
ŀ	Beryllium chloride	7787-49-7	0.192
-	Beryllium sulfate tetrahydrate	7787-56-6	0.051
-	Beryllium sulphate	13510-49-1	0.086
)	Other beryllium compounds Nickel compounds	-	-
' ŀ		7440.00.0	4 000
ŀ	Nickel	7440-02-0	1.000
ŀ	Nickel acetate tetrahydrate	6018-89-9	0.332
-	Nickel(II) oxide	1313-99-1	0.786
-	Nickel nitrate hexahydrate	13478-00-7	0.202
-	Nickel(II) hydroxide	12054-48-7	0.633
-	Nickel carbonate	3333-67-3	0.494
-	Nickel carbonyl	13463-39-3	0.344
ŀ	Nickel dimethyldithiocarbamate	15521-65-0	0.196
-	Nickel subsulfide	12035-72-2	0.244
-	Nickel(II) sulphate	7786-81-4	0.379
	Other nickel compounds	-	-
-	Selenium and its compounds	7700 40 0	4 000
-	Selenium	7782-49-2	1.000
-	Selenous acid	7783-00-8	0.612
	Other selenium compounds	-	-
-	Brominated flame retardant (except PBB, PBDE) Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14)		
	[Aliphatic/alicyclic brominated compounds]	-	1.000
-	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	-	1.000
	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds (excluding brominated diphenyl ether and brominated biohenyls)]	-	1.000
	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17) [Aromatic brominated compounds (excluding brominated diphenyl ether and brominated biphenyls) in combination with antimony compounds 1	-	1.000
ľ	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicvclic chlorinated and brominated compounds]	-	1.000
Ī	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organic phosphorus compounds]	-	1.000
ľ	Poly(2,6-dibromo-phenylene oxide)	69882-11-7	1.000
	Tetra-decabromo-diphenoxy-benzene	58965-66-5	1.000

3,5,3',5'-Tetrabromo-bisphenol A (TBBA)	79-94-7	1.00
TBBA, unspecified	30496-13-0	1.00
TBBA-epichlorhydrin oligomer	40039-93-8	1.00
TBBA-TBBA-diglycidyl-ether oligomer	70682-74-5	1.00
TBBA carbonate oligomer	28906-13-0	1.00
TBBA carbonate oligomer, phenoxy end capped	94334-64-2	1.00
TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	71342-77-3	1.00
TBBA-bisphenol A-phosgene polymer	32844-27-2	1.00
Brominated epoxy resin end-capped with tribromophenol	139638-58-7	1.00
Brominated epoxy resin end-capped with tribromophenol	135229-48-0	1.00
TBBA-(2,3-dibromo-propyl-ether)	21850-44-2	1.00
TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2	1.00
TBBA-bis-(allyl-ether)	25327-89-3	1.00
TBBA-dimethyl-ether	37853-61-5	1.00
Tetrabromo-bisphenol S	39635-79-5	1.00
TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1	1.00
2,4-Dibromo-phenol	615-58-7	1.00
2,4,6-tribromo-phenol	118-79-6	1.00
Pentabromo-phenol	608-71-9	1.00
2,4,6-Tribromo-phenyl-alltl-ether	3278-89-5	1.00
Tribromo-phenyl-allyl-ether, unspecified	26762-91-4	1.00
Hexabromo-cyclo-dodecane (HBCD), unspecified	3194-55-6	1.00
Tetrabromo-chyclo-octane	31454-48-5	1.00
1,2-Dibromo-4-(1,2 dibromo-methyl)-cyclo-hexane	3322-93-8	1.00
TBPA Na salt	25357-79-3	1.00
Tetrabromo phthalic anhydride	632-79-1	1.00
Bis(methyl)tetrabromo-phtalate	55481-60-2	1.00
Bis(2-ethlhexyl)tetrabromo-phtalate	26040-51-7	1.00
2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	20566-35-2	1.00
TBPA, glycol-and propylene-oxide esters	75790-69-1	1.00
N,N'-Ethylene –bis-(tetrabromo-phthalimide)	32588-76-4	1.00
Ethylene-bis85,6-dibromo-norbornane-2,3-dicarboximide)	52907-07-0	1.00
2,3-Dibromo-2-butene-1,4-diol	3234-02-4	1.00
Dibromo-neopentyl-glycol	3296-90-0	1.00
Dibromo-propanol	96-13-9	1.00
Tribromo-neopentyl-alcohol	36483-57-5	1.00
Poly tribromo-styrene	57137-10-7	1.00
Tribromo-styrene	61368-34-1	1.00
Dibromo-styrene grafted PP	171091-06-8	1.00
Poly-dibromo-styrene	31780-26-4	1.00
Bromo-/Chloro-paraffins	68955-41-9	1.00
Bromo-/Chloro-alpha-olefin	82600-56-4	1.00
Vinylbromide	593-60-2	1.00
Tris-(2,3-dibromo-propyl)-isocyanurate	52434-90-9	1.00
Tris(2,4-Dibromo-phenyl) phosphate	49690-63-3	1.00
Tris(tribromo-neopentyl) phosphate	19186-97-1	1.00
Chlorinated and brominated phosphate ester	125997-20-8	1.00
Pentabromo-toluene	87-83-2	1.00
Pentabromo-benzyl bromide	38521-51-6	1.00
1,3-Butadiene homopolymer,brominated	68441-46-3	1.00
Pentabromo-benzyl-acrylate, monomer	59447-55-1	1.00
Pentabromo-benzyl-acrylate, polymer	59447-57-3	1.00
Decabromo-diphenyl-ethane	61262-53-1	1.00
Tribromo-bisphenyl-maleinimide	59789-51-4	1.00
Brominated trimethylphenyl-lindane		1.00
Other Brominated Flame Retardant		1.00
Poly(vinyl chloride)	9002-86-2	1.00
Phthalates (except DEHP, DBP, BBP, DIBP)		
Diisononyl phthalate (DINP)	28553-12-0	1.00
1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP)	26761-40-0	1.00
Di-n-octyl phthalate (DNOP)	117-84-0	1.00
Other phthalates		1.00
Creosotes		
Creosote	8001-58-9	1.00
Creosote oil	61789-28-4	1.00
Distillates(coal tar) Naphthalene oils	84650-01-4	1.00
Creosote oil, Acenaphthalene fraction	90640-84-9	1.00
Distillates(coal tar) upper	65996-91-0	1.00
Anthracene oil	90640-80-5	1.00
Tar acids, Coal, Crude	65996-85-2	1.00
Creosote, Wood	8021-39-4	1.00
Low temperature tar oil, alkaline	122384-78-5	1.00
Formaldehyde	50-00-0	1.00

[Casio Green Components - Exempted Uses for Prohibited Substances

This section outlines the range of prohibited uses for chemical substances with control levels of "prohibited" in the "List of Chemical Substances Group" in Appendix 1.

Note that the prohibited uses may include some designated "exempted uses" that are not prohibited. This list shows all the exempted uses stipulated by the Casio Group.

U-RoH	Exempted Uses (those prohibited uses where substance IS directive exempted applications				
Compli	ant with Annex III of the EU-RoHS directive (2011/65/EU) but the date of applicable	lity is 6 months in advance.			
Exemp	Exempted uses that do not apply to Casio products have been omitted.				
No.	Exempted Uses	dates of applicability			
1	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):			
1(a)	For general lighting purposes < 30 W: 5 mg	 Expires on 30 June 2011; 3,5 mg may be used per burner after 30 June 2011 until 30 June 2012 2,5 mg shall be used per burner after 30 June 2012 			
1(b)	For general lighting purposes \ge 30 W and < 50 W: 5 mg	 Expires on 30 June 2011; 3,5 mg shall be used per burner after 30 Ju 2011 			
1(c)	For general lighting purposes \ge 50 W and < 150 W: 5 mg	(No expiry date)			
1(d)	For general lighting purposes ≥ 150 W: 15 mg	(No expiry date)			
1(e)	For general lighting purposes with circular or square structural shape and tube diameter \leq 17 mm	 No limitation of use until 30 June 2011; 7 mg shall be used per burner after 30 June 2011 			
1(f)	For special purposes: 5 mg	(No expiry date)			
2(a)	Mercury in double-capped linear fluorescent lamps for general lighting purposes	not exceeding (per lamp):			
2(a) (1)	Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 5 mg	 No limitation of use until 30 June 2011; 4 mg shall be used per burner after 30 June 2011 			
2(a) (2)	Tri-band phosphor with normal lifetime and a tube diameter \ge 9 mm and \le 17 mm (e.g. T5): 5 mg	 No limitation of use until 30 June 2011; 3 mg shall be used per burner after 30 June 2011 			
2(a) (3)	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and \leq 28 mm (e.g. T8): 5 mg	 No limitation of use until 30 June 2011; 3,5 mg shall be used per burner after 30 Ju 2011 			
2(a) (4)	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg	 No limitation of use until 30 June 2011; 3,5 mg shall be used per burner after 30 Ju 2011 			
2(a) (5)	Tri-band phosphor with long lifetime (≥ 25 000 h): 8 mg	 No limitation of use until 30 June 2011; 5 mg shall be used per burner after 30 June 2011 			
2(b)	Mercury in other fluorescent lamps not exceeding (per lamp):				
2(b) (1)	Linear halophosphate lamps with tube > 28 mm (e.g. T10 and T12): 10 mg	- Expires on 13 October 2011			
2(b) (2)	Non-linear halophosphate lamps (all diameters): 15 mg	- Expires on 13 October 2015			
2(b) (3)	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9)	 No limitation of use until 30 June 2011; 15 mg shall be used per burner after 30 June 2011 			
2(b) (4)	Lamps for other general lighting and special purposes (e.g. induction lamps)	 No limitation of use until 30 June 2011; 15 mg shall be used per burner after 30 June 2011 			

exceeding (per lamp):	
Short length (≤ 500 mm)	 No limitation of use until 30 June 2011; 3.5 mg shall be used per burner after 30 June 2011
Medium length (> 500 mm and ≤ 1 500 mm)	 No limitation of use until 30 June 2011; 5 mg shall be used per burner after 30 June 2011
Long length (> 1 500 mm)	 No limitation of use until 30 June 2011; 13 mg shall be used per burner after 30 June 2011
Mercury in other low pressure discharge lamps (per lamp)	 No limitation of use until 30 June 2011; 15 mg shall be used per burner after 30 June 2011
Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improvious colour rendering index Ra > 60:	
P ≤ 155 W	 No limitation of use until 30 June 2011; 30 mg shall be used per burner after 30 June 2011
155 W < P ≤ 405 W	 No limitation of use until 30 June 2011; 40 mg shall be used per burner after 30 June 2011
405W < P	 No limitation of use until 30 June 2011; 40 mg shall be used per burner after 30 June 2011
Mercury in other High Pressure Sodium (vapour) lamps for general lighting purpo	ses not exceeding (per burner):
P ≤ 155 W	 No limitation of use until 30 June 2011; 25 mg shall be used per burner after 30 June 2011
155W < P ≦ 405W	 No limitation of use until 30 June 2011; 30 mg shall be used per burner after 30 June 2011
405W < P	 No limitation of use until 30 June 2011; 40 mg shall be used per burner after 30 June 2011
Mercury in High Pressure Mercury (vapour) lamps (HPMV)	- Expires on 13 October 2014
Mercury in metal halide lamps (MH)	(No expiry date)
Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	(No expiry date)
Lead in glass of cathode ray tubes	(No expiry date)
Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	(No expiry date)
Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight	(No expiry date)
Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	(No expiry date)
Copper alloy containing up to 4 % lead by weight	(No expiry date)
Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)	(No expiry date)
Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	(No expiry date)
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	(No expiry date)
Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	(No expiry date)
Lead in dielectric ceramic in capacitors for a rated voltage of less than 125V AC or 250V DC	 Expires on 1 July 2012; May be used in spare parts after expiry date
Lead in PZT based dielectric ceramic materials for capacitors being part of	(No expiry date)
	Short length (≤ 500 mm) Medium length (> 500 mm and ≤ 1 500 mm) Long length (> 1 500 mm) Mercury in other low pressure discharge lamps (per lamp) Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes n colour rendering index Ra > 60: P ≤ 155 W 155 W < P ≤ 405 W

8(b) Cadmium and its compounds in electrical contacts (No expiry date) 9 Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerance you by 75 % by weight in the cooling solution (No expiry date) 9(b) Lead in bearing shalls and busines for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigerant-containing compressors for the used in other than C-press compliant pin connector systems - May be used in spare parts after (No expiry date) 11(b) Lead used in other than C-press compliant pin connector systems - Expires on 1 July 2012; - May be used in spare parts after (No expiry date) 13(a) Lead in white glasses used for optical applications (No expiry date) 13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards (No expiry date) 14 Lead in solders consisting of more than two elements for the connection more than 80 % and less than 55 % by weight (No expiry date) 15 Lead in linear incandescent lamps with silicate coated tubes - Expires on 1 March 2013 17 Lead halide as radiant agent in high intensity discharge (HID) lamps used for profeesional reprography applications (No expiry date) 18(a) Lead was assultary or the flowescent powerd (% lead by weight or less) of discharge lamps, when used as suntanning lamps contalaing phosphors such as BSP (BaS	8(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs	- Expires on 1 July 2011;
 Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75 % by weight in the cooling solution Lead in bearing shells and bushes for refrigerant-containing compressors for heating, venilation, air conditioning and refrigeration (HVACR) applications Lead used in other than C-press compliant pin connector systems Lead used in other than C-press compliant pin connector systems Lead used in other than C-press compliant pin connector systems Lead used in other than C-press compliant pin connector systems Lead as a coating material for the thermal conduction module C-ring May be used in spare parts after (addition) Cadmium and lead in filter glasses and glasses used for reflectance standards (No expiry date) Cadmium and lead in filter glasses and glasses used for reflectance standards (No expiry date) Cadmium and lead in filter glasses and glasses used for reflectance standards (No expiry date) Lead in solders to complete a viable electrical contexton between semiconductor die and carefire within integrated circuit file phip packages Lead in linear incandescent lamps with silicate coated tubes Expires on 1 March 2013 Lead aradivat agent in high intensity discharge (HID) lamps used for professional reprography applications Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as speciality maps for diazophyling releosy of discharge lamps when used as speciality maps for diazophyling releosy of discharge lamps when used as speciality maps containing phosphors such as BSP (GaSLo, P.P). Lead adord in glass used for bonding front and rear substrates of flat fluorescent such as borosilicat and soda lime glasses. Lead with PbSI-H4 as auxiliary anad	<u></u>		- May be used in spare parts after expiry date
eystern in absorption refrigerators up to 0.75 % by weight in the cooling solution (No expiry date) 9(b) Lead ubering shells and bushes for refrigeration (HVACR) applications (No expiry date) 11(a) Lead used in C-press compliant pin connector systems - May be used in spare parts after of the thermal conduction module C-ring - May be used in spare parts after of the thermal conduction module C-ring - May be used in spare parts after of the thermal conduction module C-ring - May be used in spare parts after of the thermal conduction module C-ring - May be used in spare parts after of the thermal conduction module C-ring - May be used in spare parts after of the thermal conduction module C-ring - May be used in spare parts after of the thermal conduction module C-ring - May be used in spare parts after of the thermal conduction for more than two learners for the connection between the pins and the package of microrocosors with a lead content of more than 80 % and leas than 85 % by weight - May be used in spare parts after of the thermal conduction die and carrier within integrated druct lip chip packages - May be used in spare parts after of the thermal conduction between semiconductor die and carrier within integrated druct lip chip packages - May be used in spare parts after of the thermal conduction die and carrier within integrated druct lip chip packages 16 Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated druct lip chip packages - Expires on 1 March 2013 16 Lead and agent lin high	8(b)	Cadmium and its compounds in electrical contacts	(No expiry date)
(i) Lead in bearing shells and bushes for refrigeration (HVACR) applications Nexply date) 11(a) Lead used in C-press compliant pin connector systems - May be used in spare parts after of 11(b) Lead used in other than C-press compliant pin connector systems - Expires on 1 July 2012; 11(b) Lead used in other than C-press compliant pin connector systems - May be used in spare parts after of 11(b) Lead as a coating material for the thermal conduction module C-ring - May be used in spare parts after of 13(a) Lead in white glasses used for optical applications (No expiry date) 13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards (No expiry date) 14 Lead in solders consisting of more than two elements for the connection more than 80 % and leas than 85 % by weight - May be used in spare parts after of more than 80 % and leas than 85 % by weight 15 Lead in bidlers incondescent lamps with silicate coated tubes - Expires on 1 March 2013 16 Lead in bidlers a radiant agent in high intensity discharge (HID) lamps used for professional reprography applications. - Expires on 1 July 2010 17 Lead as activator in the florescent powder (1 % lead by weight or less) of discharge lamps when used as specially lamps for diazoprinting reprography. Inithor traps. photocherinical an	9	•	(No expiry date)
heating, ventilation, air conditioning and refrigeration (HVACR) applications 11(a) Lead used in C-press compliant pin connector systems - May be used in spare parts after of the theorem is concerned on the theorem is pare parts after of the theorem is concerned on the theorem is pare parts after of the theorem is concerned on the theorem is pare parts after of the theorem is concerned on the theorem is pare parts after of the theorem is consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 0% and leas than 88 % weight - May be used in spare parts after of the theorem is solders to complete a viable electrical connection between semiconductor die and carrier within infegrated circuit lip (bit packages) - May be used in spare parts after of the theorem is solders to complete a viable electrical connection between semiconductor die and carrier within infegrated circuit lip (bit packages) - May be used in spare parts after of the theorem is solders to complete a viable electrical connection between semiconductor die and carrier within infegrated circuit lip (bit packages) - Kapries on 1 March 2013 17 Lead halide as matiant agent in high intensity discharge (HID) lamps used for professional reprography applications - Expires on 1 July 2010 18(a) Lead as activator in the funcerscent powelr (1 % lead by weight or less) of discharge lamps, hotochenical and curing processes containing phosphors such as SIMS (GS, CB, MgS), Co, Pb) - Expires on 1 December 2010 19(b) Lead as activator in the loreorsent powelr (1 % lead by weight or less) of discharge lamps, hotochenical and curing processe	0/4)		(Nia aureimu data)
11(a) Lead used in C-press compliant pin connector systems - May be used in spare parts after of 11(b) Lead used in other than C-press compliant pin connector systems - Expires on 1 July 2012; 12 Lead as a coating material for the thermal conduction module C-ring - May be used in spare parts after of 13(a) Lead in white glasses used for optical applications (No expiry date) 13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards (No expiry date) 14 Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight - May be used in spare parts after of more than 80 % and less than 85 % by weight 15 Lead in loaders to complete a viable electrical connection between semiconductor de and carrier within integrated circuit flip chip packages - Expires on 1 March 2013 16 Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications - Expires on 1 July 2010 18(a) Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as spacially lamps for diazoprinting reprography, linest rings, photochemical and curing protos such as BSP (BaSi,Qi, Pb) - Expires on 1 December 2010 18(b) Lead adide in filter glas zuellary and pbinSn-Hg in specific compositions as main amalgam a	9(b)		(No expiry date)
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- May be used in spare parts after (12 Lead as a coating material for the thermal conduction module C-ring - May be used in spare parts after (13(a) Lead in white glasses used for optical applications (No expiry date) 13(b) Cadmium and lead in filter glasses used for reflectance standards (No expiry date) 14 Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight. - May be used in spare parts after (15 Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages - Expires on 1 March 2013 16 Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as speciality lamps for diazoprinting preorgarphy, lithography, insect traps, photochemical and curing processes containing phosphors such as SBP (BaSL_QS, Pb) - Expires on 1 July 2010 18(a) 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 SBS (BaSL_QS, Pb) - Expires on 1 December 2010 18(b) Lead wide in glass used for bonding front and rear substrates of flat fluorescent lower progressions as borrositions as main amalgam soronital mang water as doal integraps (LCDs) - Expires on 1 December 2010 11 Lead wide in glass used for bo			
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33 Lead in solders for the soldering of thin copper wires of 100 μm diameter and (No expiry date)	32		(No expiry date)
	33		(No expiry date)
34 Lead in cermet-based trimmer potentiometer elements (No expiry date)	34	·	(No expiry date)

36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display	- Expires on 1 December 2009
37 Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body		(No expiry date)
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	(No expiry date)
39	Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm 2 of light-emitting area) for use in solid state illumination or display systems	- Expires on 1 December 2013
		- Expires on 30 June 2013
Compl Exemp	audio equipment H regulations and (EC) No.850/2004 Exempted Uses liant with Annex XVII of the REACH regulations and (EC) No.850/2004, but the date pted uses that do not apply to Casio products have been omitted.	e of applicability is 6 months in advance.
Compl Exemp	audio equipment H regulations and (EC) No.850/2004 Exempted Uses liant with Annex XVII of the REACH regulations and (EC) No.850/2004, but the date	e of applicability is 6 months in advance.
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Compl Exemp	audio equipment H regulations and (EC) No.850/2004 Exempted Uses liant with Annex XVII of the REACH regulations and (EC) No.850/2004, but the date pted uses that do not apply to Casio products have been omitted. and its salts for the following specific uses Wetting agents for use in controlled electroplating systems;	- Expires on 26 February 2015

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