

FOR SUPPLIERS

**Survey Manual for
Contained Chemical Substances**

Ver.1d

July, 2010

FDK CORPORATION

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1. PURPOSE

The main enumeration has aimed to understand the chemical contained in the procurement parts of FDK group (hereafter referred to as “FDK”)and the packaging materials to offer the market FDK product which guarantees the management standard for contained chemical substances [ANNEX 1], and to prevent content in the FDK product of the use banned chemical substance demanded in the market.

2. SCOPE

This survey is applicable for the FDK procured parts and their packaging materials. In case of the packaging materials for FDK procured parts, this survey is applicable only for the materials ordered by FDK.

3. GENERAL DEMAND MATTER

(1) Banned chemical substance

Do not contain the banned chemical substance shown in [ANNEX1] in the procurement parts of FDK and the packaging materials.

However, do not exceed the permissible value about the substance with the permissible value setting.

(2) Submitting survey document

Please submit survey document to FDK according to this manual.

4. DEFINITION OF TERMS

(1) Procured Parts

All the parts (including raw materials), sub-materials and production subsidiary materials constituting comprise FDK’s products.

(2) Products

1. Products designed, produced and sold by FDK.
2. Products designed and produced by a third party under commission from FDK and are sold with FDK’s trademark.
3. Products designed and produced by FDK under commission from a third party.

(3) Packaging Materials

Materials used to wrap or pack FDK's procured parts or products

Examples: Cardboard boxes, inks, paints, wrapping bands, labels, and adhesives.

(4) Management Classification of Contained Chemical Substances

1.	Unconditionally Banned:	The substance which must not be unconditionally used.
2.	Conditionally Banned:	The substance whose use is banned by any laws or market requirements with a time limit or the substance whose use is conditionally banned by its application (purpose) or maximum acceptable limit of impurities.
3.	Monitored:	The substance which must be monitored based on the request from market.

(5) Sub-materials

Materials used to satisfy the functions of products. Examples: Adhesive tapes, solders, adhesives, and paints (including coatings and platings).

(6) Production Subsidiary Materials

Materials, not directly affecting the functions of products, but used in the production process of products and adhered to products.

Examples: Inks used in inspection (if adhered to products), labels, and residues of wax/tapes used for temporary fixation.

(7) Contained Chemical Substances

Chemical substances contained in FDK's procured parts, products and packing materials.

(8) Contain

This term indicates that chemical substances (including impurities) are, whether intentionally or not, added, filled, mixed or adhered to FDK's procured parts, products and packing materials.

(This term also indicates that chemical substances are unintentionally mixed or adhered to products during the production process.)

(9) Impurities

This term indicates substances which are contained in natural materials and cannot be technically removed completely by refinery processes as industry materials, or substances which are generated in synthetic reaction and cannot be technically removed completely.

(10) Acceptable Limits

Maximum concentration never be exceeded in ppm of a target contained chemical substance in a material which cannot be separated into different materials mechanically (a homogeneous material).

(11) ppm

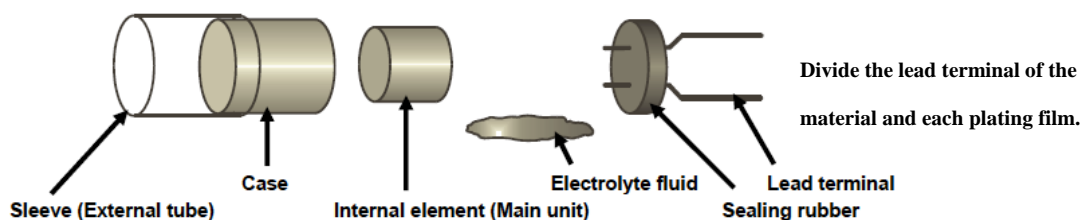
This term is the abbreviation for part(s) per million and means one-millionth. This is a unit of one-millionth and used for describing the percentage of content or concentration. When 1 mg of a chemical substance is contained in 1 kg of a material, this equals to 1 ppm.

(12) Components

A component is a portion of a part and is made of a material which cannot be separated into different materials mechanically (a homogeneous material).

The names of components to be used are those used in specification for delivery, drawings, or the like.

The composition part of which the example is electric parts (resistor and capacitor, etc.) is shown as follows. Refer to [ANNEX2] for other cases.



(13) CAS No.

A registration number for a chemical substance used in the chemical substances registration system in the CAS (Chemical Abstract Service) which was established by the American Chemical Society. It is also called as a CAS number.

5. CONTENT OF SURVEY

Please examine and grasp the information of contained chemical substances in your delivered parts and their packaging materials to FDK (the FDK procured parts and their packaging materials), and prepare the following documents based on the results and submit them to us.

- | | |
|---|------------------|
| (1) Certificate of Non-Containment (Form 001 (July, 2010)) | [ANNEX3] 1/2,2/2 |
| (2) Table of Compositions (Form 002 (August, 2005)) | [ANNEX4] |
| (3) FDK Survey Sheet of Contained Chemical Substances (The 5 th Edition) (Form 003 (July, 2010)) | [ANNEX6] |
| (4) Certificate of Contents (Form 004 (April, 2005)) | [ANNEX9]. |
| (5) Analysis Data (ICP Analysis Data, Atomic Emission Spectroscopy Data,etc.) | |
| (6) MSDS (Material Safety Data Sheet) and others | |

6. PREPARING AND SUBMITTING SURVEY DOCUMENT

Please follow the instructions below when preparing and submitting each document.

- (1) Certificate of Non-Containment (Form 001 (July, 2010)) - [ANNEX 3]

”This is a document that certifies that the content levels of chemical substances in your delivered parts and their packaging materials to FDK are below the acceptable limits of the Management Standards for FDK Contained Chemical Substances.”

- ① Please prepare the certificate with respect to each delivered parts or each customers.
- ② Please put a mark on the appropriate one of
[Following items , Items in ANNEX , All items].
The term “All Items” means items which are being delivered us now and will be delivered to us in the future. It does not mean all the items in the target list.
- ③ Please enter FDK EDP KEY, FDK Part Name, FDK Standard and Drawing No., Your Part Name, and Your Standard for specifying the delivered parts.
- ④ Please enter Date, Company name, Division, Responsible person, TEL No., and E-Mail address.
- ⑤ Please submit your document in the form of Adobe Acrobat document (pdf format).

FDK CORPORATION
TO: _____

CERTIFICATE OF NON-CONTAINMENT

Date (YYYY/MM/DD)	2005/
Company Name	
Department	
Name of Responsible	(Signature)
TEL	
E-MAIL	

We guarantee that the parts (Items listed below, Items on the separate sheet, All items) delivered to your company do not contain any banned substances listed below.

FDK EDP KEY		FDK Product Name		FDK Standard and Drawing No.	
Our Product Name		Our Standard and Drawing No.		Name of Manufacturer	

1) Procured Parts and a Product

Unconditional Banned								
CAS No.	Substance	Law	CAS No.	Substance	Law	CAS No.	Substance	Law #
13121-70-5	Tricyclohexylin hydroxide	4	99-35-4	1,3,5-Trinitrobenzene	5	118-74-1	Hexachlorobenzene	1
13171-21-6	Dimethyl-(diethylamido-1-chlorocrotonyl) phosphate	3	107-04-0	1-Bromo-2-Chloroethane	5	309-00-2	Aldrin	1
56-38-2	Diethyl-paranitrophenyl- thiophosphate	3	87-63-8	2-Chloro-6-Methylamine	5	72-20-8	Endrin	1
8022-00-2	Demeton-methyl	3	3165-93-3	4-Chloro-O-Toluidinehydrochloride	5	50-29-3	Chlorophenothane	1
298-00-0	Dimethylparanitrophenyl thiophosphate	3	101-55-3	4-Bromophenylphenylether	5	60-57-1	Dieldrin	1
107-49-3	Tetraethyl Pyrophosphate	3	1116-54-7	N-Nitrosodiethanolamine	5	8001-35-2	Toxaphene	1
732-26-3	2,4,6-tri-tert-butylphenol	1	615-53-2	N-Methyl-N-Nitrosourethane	5	2385-85-5	Mirex	1
542-88-1	Bis(chloromethyl) Ether	2	56-53-1	Diethylstilbestrol	5	71-43-2	Benzene	2
152-16-9	Octamethylpyrophosphoramide	3	3083-25-8	Trichlorobutylene oxide	5	12185-10-3	Phosphorus (yellow)	2

(2) Table of Compositions (Form 002 (August, 2005)) - [ANNEX4]

”This is a table of compositions, constituents and their purposes of your delivered parts and their packaging materials to FDK. This table is useful to grasp all the contained chemical substances and respond to various surveys of contained chemical substances in the market.”

- ① Please prepare the certificate with respect to each delivered parts.
- ② Please enter FDK EDP KEY, FDK Part Name, FDK Standard and Drawing No., Your Part Name (Our Part Name in [ANNEX4]), and Your Standard for specifying the delivered parts.
- ③ Please enter Date, Company name, Division, Responsible person, TEL No., and E-Mail address.
- ④ Please enter the product weight in “mg”.
- ⑤ The explanations for items in the Table of Compositions and the instruction to fill in the table are as follows.

⑤-1 Number: Please assign a number for each component and fill in the number.

⑤-2 Component:

⑤-2-1 A component should be made of a homogenous material (a material which cannot be separated into different materials mechanically).

⑤-2-2 The names of components to be used are those used in specification for delivery, drawings, or the like. Please fill in these names.

[NOTE] Examples: Components to be considered as different ones.

- a. “Metals” as base materials of structural members and plates, and “Plating Layers”, “Chromate Films” and “Coating Films” on the surface of parts.
- b. Formed “Plastics (Synthetic Resin)”, “Ink” printed on the surface, and “Coating Layers.”
- c. “Metals” used for the wiring of printed circuit boards or LSIs, and “Resin” and “Glass” used for insulation.

⑤-3 Substance Name, FDK Substance Number, and CAS No.:

Please fill in the substance names, FDK numbers and CAS No. for all compositions of each component. If a substance does not have a FDK number or CAS No., please just fill in its substance name.

When there is not enough space, please insert new rows and fill in.

⑤-4 Content:

Please fill in the weights of substances composing a component in “mg”.
Please make sure that the total content of substances in a component is equal to the weight of a product.

⑤-5 Purpose of Contained Chemical Substance:

Please select one item from the followings.

”Primary Ingredient”, “Improve Heat Stability”, “Vulcanizing Agent”, “Pigment or Colorant”, “Improve Flame Resistance”, “Improve Workability”, “Improve Mechanical Property”, “Improve Friction or Wear Performance”, “Improve Anticorrosion Performance”, “Improve Electrical Property”, “Unintentionally Contained” or “Others (***)”. In case of the “Others (***)”, please fill in the appropriate purpose in parentheses.

⑤-6 Analysis Data (ICP etc.):

Please fill in the serial numbers of each analysis data. (The serial number is a number assigned to an analysis data, which is to be submitted to FDK, by your company.)

⑤-7 MSDS:

Please fill in the MSDS serial numbers of each component. (The serial number is a number assigned to an analysis data, which is to be submitted to FDK, by your company.)

⑥ Please submit your sheet in the form of Microsoft Excel worksheet (xls format).

FDK CORPORATION
TO : _____

TABLE OF COMPOSITIONS

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>FDK EDP KEY</td><td></td></tr> <tr><td>FDK Part Name</td><td></td></tr> <tr><td>FDK Standard and Drawing No.</td><td></td></tr> <tr><td>Our Part Name</td><td></td></tr> <tr><td>Our Standard and Drawing No.</td><td></td></tr> <tr><td>Name of Manufacturer</td><td></td></tr> <tr><td>Product Weight (mg)</td><td style="text-align: center;">0.00</td></tr> </table>	FDK EDP KEY		FDK Part Name		FDK Standard and Drawing No.		Our Part Name		Our Standard and Drawing No.		Name of Manufacturer		Product Weight (mg)	0.00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Date (YYYY/MM/DD)</td><td>2005/</td></tr> <tr><td>Company Name</td><td></td></tr> <tr><td>Department</td><td></td></tr> <tr><td>Name of Responsible Person</td><td></td></tr> <tr><td>TEL</td><td></td></tr> <tr><td>E-MAIL</td><td></td></tr> </table>	Date (YYYY/MM/DD)	2005/	Company Name		Department		Name of Responsible Person		TEL		E-MAIL	
FDK EDP KEY																											
FDK Part Name																											
FDK Standard and Drawing No.																											
Our Part Name																											
Our Standard and Drawing No.																											
Name of Manufacturer																											
Product Weight (mg)	0.00																										
Date (YYYY/MM/DD)	2005/																										
Company Name																											
Department																											
Name of Responsible Person																											
TEL																											
E-MAIL																											

No.	Component Part	Substance Name	FDK Substance No.	CAS No.	Content (mg)	Purpose of Including	Analysed Data (ICP etc.)	MSDS	Remarks
Total Content (mg)					0.00				

(3) FDK Survey Sheet of Contained Chemical Substances (The 5th Edition)

(Form 003 (July, 2010)) - [ANNEX6]

”This is a survey sheet on the contents of the FDK target chemical substances (see [ANNEX 10]) in your delivered parts and their packaging materials to FDK.”

- ① Please prepare the survey sheet following [ANNEX8].
- ② Please submit your sheet in the form of Microsoft Excel worksheet (xls format).

(4) Certificate of Contents (Form 004 (April, 2005)) - [ANNEX9]

”This is a document that certifies that the contents of the Survey Sheet of Contained Chemical Substances, Table of Compositions, Analysis Data and MSDS on your delivered parts and their packaging materials to FDK are true and correct.”

- ① Please prepare the certificate with respect to each customers.
- ② Please enter Date, Company name, Division, Responsible person, TEL No., and E-Mail address.
- ③ Please submit your document in the form of Adobe Acrobat document (pdf format).

FDK CORPORATION
TO: _____

Certificate of Contents

Date (YYYY/MM/DD)	2005/
Company Name	
Department	
Name of Responsible Person	(Signature)
TEL	
E-MAIL	

We guarantee that the contents of the information of the chemical substances contained in the products and their packaging materials which are delivered to FDK (Table of Compositions, Survey Sheet, Analysis Data, and MSDS) are true and correct.

(5) Analysis Data (ICP Analysis Data, Atomic Emission Spectroscopy Data, etc.)

This is an analysis data of specified chemical substances. This is an evidence for the contents of the Table of Compositions and Survey Sheet.

① If the “Component” of a delivered part is applicable to one of the following, please prepare quantitative analysis data of the target substances for each “Component”.

①-1 In case the delivered part is parts (including raw materials), sub-materials or production subsidiary materials, and the component is “Resin”, “Ink” or “Coating Materials”.

Target Substance: Cadmium (Acceptable limits: below 5 ppm) and Lead (Acceptable limits: below 100 ppm)

Method of Analysis: Any method is applicable if the quantitation limit for each target substance is assured to be lower than its acceptable limit. (Reference) Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES: JIS K0116 compliance)

①-2 In case of “Chromate Films” of plating:

Target Substance: Hexavalent chromium (Acceptable limit: below 1000 ppm)

Method of Analysis: Any method is applicable if the quantitation limit for the target substance is assured to be lower than its acceptable limit.

①-3 In case the delivered part is packaging materials:

Target Substance: Heavy metals (Cadmium, Lead, Mercury, and Hexavalent chromium) (Acceptable limits: below 100 ppm in total)

Method of Analysis: Any method is applicable if the quantitation limit for each target substance is below 5 ppm.

- ② Please write your company's serial numbers (e.g. ICP-001) on the analysis data.
- ③ Please submit your document in the form of Adobe Acrobat document (pdf format).

(6) MSDS (Material Safety Data Sheet) and others

This is a data sheet describing the compositions contained in the materials in procured parts. This is an evidence for the contents of the Table of Compositions and Survey Sheet.

- ① Please prepare the precise MSDS of the delivered parts.
- ② Please assign and write your reference No. on MSDS.
- ③ Please submit your document in the form of Adobe Acrobat document (pdf format).

7. RELATED LAWS AND REGULATIONS OF CONTAINED CHEMICAL SUBSTANCES

The laws and regulations related to contained chemical substances both in Japan and abroad are listed in [ANNEX11]. FDK has defined our unconditionally banned substances, conditionally banned substances and monitored substances according to those laws and regulations, and has treated those substances as the target substances for our survey.

8. CONTACT

If you have any questions, please contact the representative of FDK on this matter. For general information on this matter, please email to the following address.

2281 Washizu, Kosai-shi, Shizuoka-ken, Japan 431-0495

FDK CORPORATION

General Purchasing Department E-MAIL : koubai@fdk.co.jp

Environmental Technical Department E-MAIL : emc_chousa@fdk.co.jp

AMENDMENT HISTORY

Revision Date	Version	Description of Revision
April 2005	1	Established
August 2005	1a	<i>Survey Sheet</i> and <i>Table of Compositions</i> are modified for <i>Product Weight, Content</i> , etc. containing figures below the second decimal place, which is formerly restricted by canceling entry restriction. Submission of <i>Certificate of Non-containment</i> and <i>Certificate of Contents</i> as written documentation is added.
July 2007	1b	Modified in accordance with <i>Management Standards for Contained Chemical Substances</i> (FDK508-01), the second edition (Annex 1, Annex 2, Annex 4, and Annex 12 are modified.)
May 2008	1c	Modified in accordance with <i>Management Standards for Contained Chemical Substances</i> (FDK508-01), the third edition (Annex 1, Annex 2, Annex 4, and Annex 12 are modified.)
July 2010	1d	[ANNEX 2]List of FDK Group is deleted. [ANNEX 2] is advanced and the ANNEX number by the deletion is advanced. Modified in accordance with <i>Management Standards for Contained Chemical Substances</i> (FDK508-01), the 4th edition (Annex 1, Annex 2, Annex 4, and Annex 12 are modified.)

[ANNEX1]

MANEGEMENT STANDARDS FOR CONTAINED CHEMICAL SUBSTANCES

FDK group must not contain the following unconditional banned in a procured parts and products, and those packing material.

1) Procured Parts and a Product

Unconditional Banned

CAS No.	Substance	Law *	CAS No.	Substance	Law *	CAS No.	Substance	Law *
13121-70-5	Tricyclohexyltin hydroxide	4	99-35-4	1,3,5-Trinitrobenzene	5	118-74-1	Hexachlorobenzene	1
13171-21-6	Dimethyl-(diethylamido-1-chlorocrotonyl) phosphate	3	107-04-0	1-Bromo-2-Chloroethane	5	309-00-2	Aldrin	1
56-38-2	Diethyl-paranitrophenyl- thiophosphate	3	87-63-8	2-Chloro-6-Methylaniline	5	72-20-8	Endrin	1
8022-00-2	Demeton-methyl	3	3165-93-3	4-Chloro-O-Toluidinehydrochloride	5	50-29-3	Chlorophenothane	1
298-00-0	Dimethylparanitrophenyl thiophosphate	3	101-55-3	4-Bromophenylphenylether	5	60-57-1	Dieldrin	1
107-49-3	Tetraethyl Pyrophosphate	3	1116-54-7	N-Nitrosodiethanolamine	5	8001-35-2	Toxaphene	1
732-26-3	2,4,6-tri-tert-butylphenol	1	615-53-2	N-Methyl-N-Nitrosourethane	5	2385-85-5	Mirex	1
542-88-1	Bis(chloromethyl) Ether	2	56-53-1	Diethylstilbestrol	5	71-43-2	Benzene	2
152-16-9	Octamethylpyrophosphoramide	3	3083-25-8	Trichlorobutylene oxide	5	12185-10-3	Phosphorus (yellow)	2
115-32-2	Dicofol	1	680-31-9	Hexamethylphosphoramide	5	78-00-2	Tetraethyl Lead	3
93-76-5	(2,4,5-Trichlorophenoxy)acetic Acid and its salts and esters	4	85-22-3	Pentabromoethylbenzene	5	75-74-1	Tetramethyl Lead	3
2813-95-8	2,4-Dinitro-6-(1-methylpropyl)phenyl Acetate	4	62-50-0	Ethylmethanesulfonate	5	20859-73-8	Aluminium Phosphide	3
88-85-7	Dinoseb and its salts and esters	4	591-78-6	2-Hexanone	5	319-84-6	Benzene Hexachloride et	4
6164-98-3	N-(4-chloro-2-methylphenyl)-N,N-dimethylmethanimine	4	56-49-5	3-Methylcholanthrene	5	106-93-4	1,2-Dibromoethane	4
126-72-7	Tris (2,3-dibromopropyl) phosphate	4	930-55-2	N-Nitrosopyrrolidine	5	66733-21-9	Erionite etc.	5
545-55-1	Tris (1-aziridinyl) phosphineoxide	4	3132-64-7	3-Bromo-1,2-Epoxypropane	5	51-79-6	Ethyl carbamide	5
70-25-7	N-Methyl-N'-Nitro-N-Nitrosoguanidine	5	1888-71-7	Hexachloropropene	5	62-44-2	p-Ethoxyacetanilide	5
56-35-9	Bis (tributyl tin) oxide	1	608-93-5	Pentachlorobenzene	5	353-50-4	Carbonylfluoride	5
95-94-3	1,2,4,5-Tetrachlorobenzene	5	92-67-1	4-Aminodiphenyl	2	50-55-5	Reserpine	5
15017-02-4	N,N'-ditolyl-p-phenylenediamine	1	92-93-3	4-Nitorodiphenyl	2	50-07-7	Mitomycin C	5
91-59-8	2-Naphthylamine	2		Radioactive substances	7	76-01-7	Pentachloroethane	5
	Tributyl Tins & Triphenyl Tins	1		Asbestos types	2	56-04-2	Methylthiouracil	5
	PCBs , PCTs	1		Ozone-depleting substances		92-87-5	Benzidine	2
	Polychlorinated Naphthalenes (Cl≥3)	1		(Substances cited by the Montreal Protocol)			Chlordane	1
	Chlorinated paraffine (C10-13)	6		(The isomer is included.)			Fluoroacetic Acid	3
87-68-3	Hexachlorobuta-1,3-diene	1	534-52-1	DNOC	4	17804-35-2	Benomyl	4
485-31-4	Binapacryl	4	107-06-2	Ethane, 1,2-dichloro-	4	1563-66-2	Carbofuran	4
2425-06-1	Captafol	4	75-21-8	Ethylene oxide	4	137-26-8	Thiram	4
510-15-6	Chlorobenzilate	4	76-44-8	Heptachlor	4	10265-92-6	Methamidophos	4
87-86-5	Pentachlorophenol and its salts and esters	4	6923-22-4	Monocrotophos	4	143-50-0	Chlordecone	1
3846-71-7	2-benzotriazol-2-yl-4,6-di-tert-butylphenol	1						

*:The main regulations system etc. which relate to each material are as follows.

1. Law concerning Examination and Regulation of Manufacture and Handling of Chemical substances (Japan)
2. The Law on Industrial Safety and Hygiene(Japan)
3. Poisonous and Deleterious Substance Control Law (Japan)
- 4.Export Trade Control Ordinance (Japan)
5. Toxic Substances Control Act ANY USE (United States)
6. EU Directive 76/769/EEC
7. Nuclear Substances Control Law (Japan)

Conditionally Banned Substances (The substance whose use is banned by its purpose or maximum acceptable limit of impurities.)

Subatance	Purpose	Acceptable Limit
Cadmium and its compounds * ¹	Except for the following	<75(100)ppm ^{*3,5}
	•Solder	<20ppm ^{*3}
Lead and its compounds * ¹	•Resin, coating, ink, thick film paste, fuse-element of thermal fuse	<5ppm ^{*3}
	•Resistive element (frit glass) •Glass and pigment and dye for glass	
	•Electric contacts such as DC motor, relay swich, and breaker	
	•Surface finishing (such as coating)	
	•Battery and battery pack	< 20ppm of total weight ^{*4}
Mercury and its compounds * ¹	Except for the following	<1000ppm ^{*3}
	•Resin, coating, ink	<100ppm ^{*3}
Chromium VI and its compounds * ¹	Except for the following	<1000ppm ^{*3}
	•Button battery	< 2% of total weight
	•Battery except for button battery and battery pack	< 3ppm of total weight
Polybrominated biphenyls (PBBs) * ¹	•All	<1000ppm ^{*3}
Polybrominated diphenyl ethers (PBDEs) * ¹	•All	<1000ppm ^{*3}
Polyvinylchloride (PVC)	•Retaining band	Banned
Formaldehyde	•Woodworks using fiber board, plywood	Banned
Arsenic and its compounds	•Antiseptic substance for wood	Banned
Nickel and the compound Except Alloy (for example stainless steel)	•Contact part with a human body continuously (Parts used with contacting a human skin such as headphone or microphone)	Banned
Azo compounds (Azo compound forming specific amine ^{*2})	•Parts contacting a human skin directly and continuously	Banned
PFOS Perfluorooctanesulfonic acid and its salts C ₈ F ₁₇ SO ₂ X (X = OH, Metal salt, halide, amide, and other derivatives including polymers) ^{*6}	Except for the following	<1000ppm ^{*3}
	•Substance Preparations (grease, oil, etc.)	<50ppm ^{*3}
	•Surface finishing (such as coating)	<1 μg/m ³

*1: The applications exempted from the EC Directive 2002/95/EC (EU/RoHS) are not covered.

*2: Specific amines are the amine compounds defined in the EC Directive 76/769/EEC, the 19th Amendment.

*3: Acceptable limit for a substance in a component consist of a homogenous material.

*4:2006/66/EC

*5: "<100ppm" is applied after relevant Danish laws and regulations are revised.

*6: The applications exempted from the EC Directive 2006/122/EC are not covered.

2) Packing material of a procured parts and a product.

In addition to 1) Contents of the products, meet the following requirement.

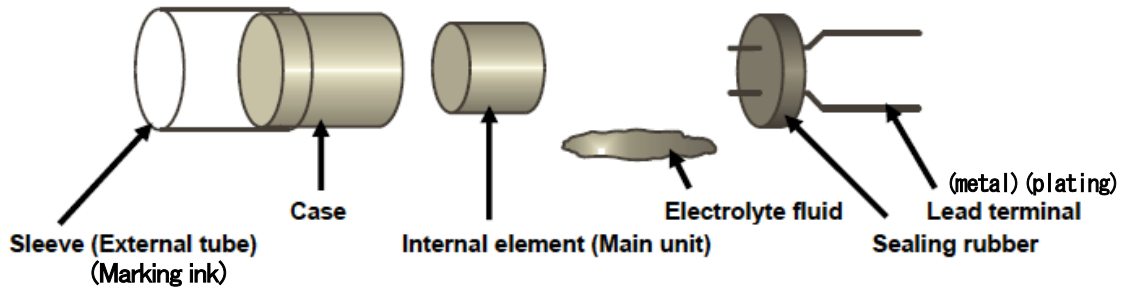
Subatance	Purpose	Acceptable Limit
Heavy metal(cadmium, lead, mercury, and hexavalent chromium)	•Packaging medium	Less than 100ppm in all ^{*3}
Polyvinyl chloride(PVC)	•Packaging medium	Banned

*3: Acceptable limit for a substance in a component consist of a homogenous material.

[ANNEX2] Examples of Component

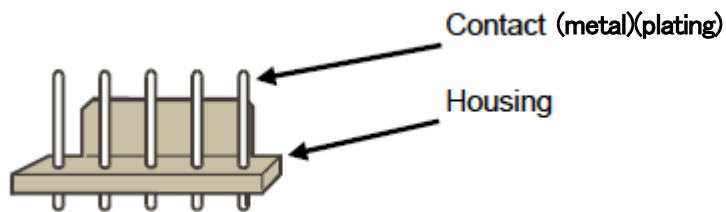
[Component part, example 1]

Component part: Sleeve, Case, Internal element, Electrolyte fluid, Sealing rubber, Lead terminal



[Component part example, example 2] Connectors

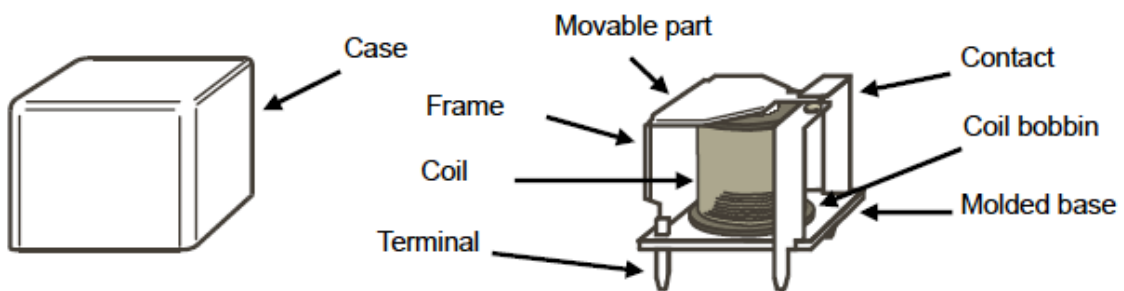
Component part: Housing and contacts



[Component part, example, example 3]

Switches, relays, and other parts with mechanical component.

Component parts: Part case (molded plastic, etc.), metal components (lever, frames, etc.), and moving parts (contact points, etc.)

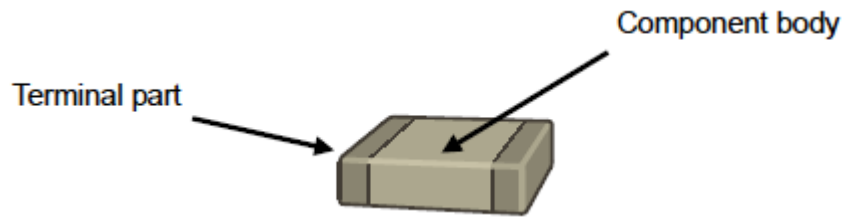


*** Please pay particular attention to special metals (alloys) used for plastic flame-retardants , and electrical characteristics and lubrication of contact points.**

[Component part, example, example 4]

Surface mount type chip parts

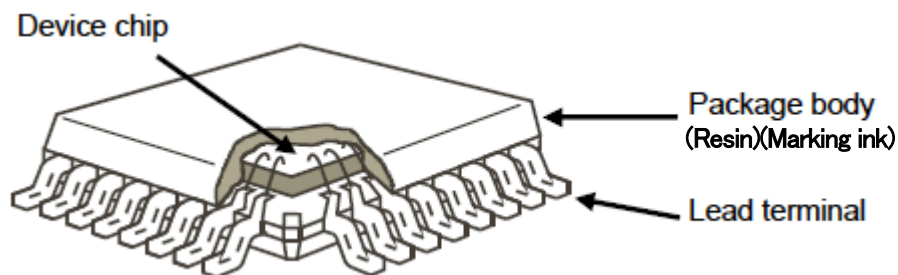
Constituent sections: Terminal parts, component body



* The main body of the part is made of multiple materials and substance concerned is present, break it down,
 e.g.) part (main body) → ceramic and electrode

[Component part, example, example 5] Semiconductor device

Constituent sections: Lead terminals (lead frame etc.), package body (molded resin etc.), device chip (Chip, Adhesive, Bonding wire)

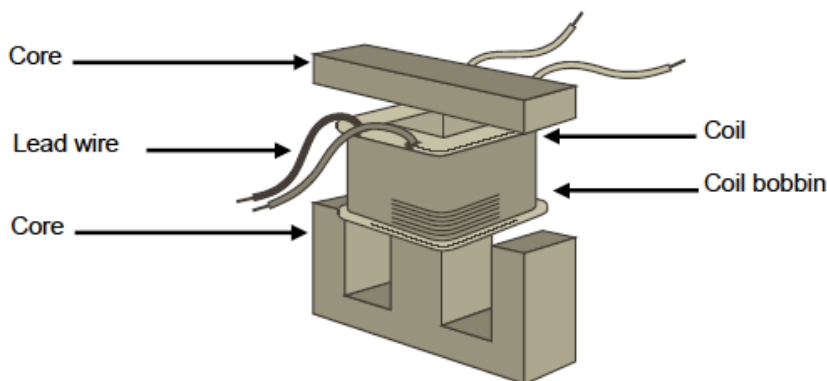


*Please pay particular attention to any flame retardants in the package plastic, and the lead material and treatment.

*make the response concerning the device as best you can .

[Component part, example, example 6] Transformers, Inductors

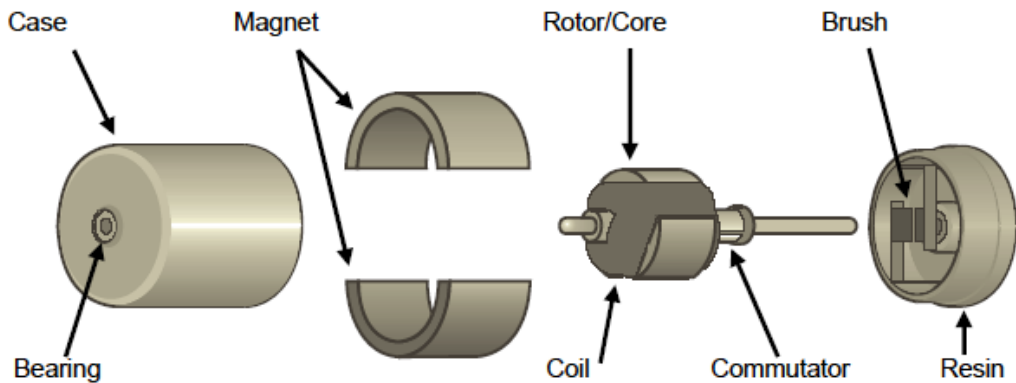
Constituent sections: Core, coil, bobbin, lead wire, insulation, case/frame etc.



*Please pay particular attention to flame retardants in plastic materials or insulating parts, inpregnant in the coil , PVCs or flame retardants in the lead wire.

[Component part, example, example 7] DC motors

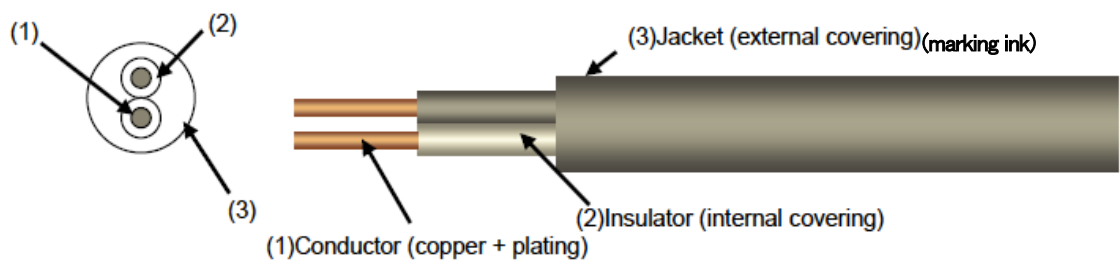
Constituent sections: Part case (molded resin etc.), metal parts (shaft, rotor/core, terminals, frame etc.), brushes etc., magnets, coil, other



***Please pay particular attention to special metals (alloys) used for flame retardants in plastic, and electrical characteristics and lubrication in commutators, as well as grease in bearings.**

[Component part, example, example 8] Power cable (Power cord)

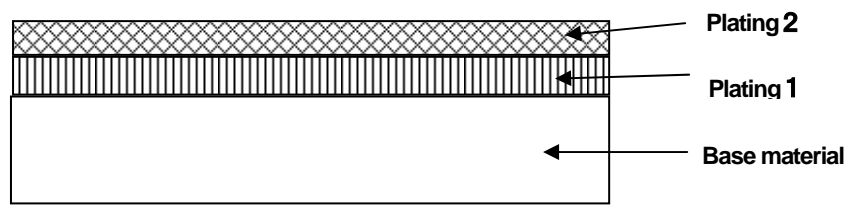
Constituent sections: Conductor (copper + plating), insulator (internal covering), jacket (external covering + marking ink)



[Component part, example, example 9]

Surface treatment material(paints and plating, etc.)

Constituent sections: Base material ,Plating1,Plating2,.....



***Please pay particular attention to each layer when the surface treatment is a multilayer film.**

[ANNEX 3]1/2

FDK CORPORATION

TO: _____

CERTIFICATE OF NON-CONTAINMENT

Date (YYYY/MM/DD)	
Company Name	
Department	
Name of Responsible	(Signature)
TEL	
E-MAIL	

We guarantee that the parts (Items listed below, Items on the separate sheet, All items) delivered to your company do not contain any banned substances listed below.

FDK EDP KEY		FDK Product Name		FDK Standard and Drawing No.	
Our Product Name		Our Standard and Drawing No.		Name of Manufacturer	

1) Procured Parts and a Product

Unconditional Banned

CAS No.	Substance	Law #	CAS No.	Substance	Law #	CAS No.	Substance	Law #
13121-70-5	Tricyclohexyltin hydroxide	4	99-35-4	1,3,5-Trinitrobenzene	5	118-74-1	Hexachlorobenzene	1
13171-21-6	Dimethyl-(diethylamido-1-chlorocrotonyl) phosphate	3	107-04-0	1-Bromo-2-Chloroethane	5	309-00-2	Aldrin	1
56-38-2	Diethyl-paranitrophenyl- thiophosphate	3	87-63-8	2-Chloro-6-Methylaniline	5	72-20-8	Endrin	1
8022-00-2	Demeton-methyl	3	3165-93-3	4-Chloro-O-Toluidinehydrochloride	5	50-29-3	Chlorophenothane	1
298-00-0	Dimethylparanitrophenyl thiophosphate	3	101-55-3	4-Bromophenylphenylether	5	60-57-1	Dieldrin	1
107-49-3	Tetraethyl Pyrophosphate	3	1116-54-7	N-Nitrosodiethanolamine	5	8001-35-2	Toxaphene	1
732-26-3	2,4,6-tri-tert-butylphenol	1	615-53-2	N-Methyl-N-Nitrosourethane	5	2385-85-5	Mirex	1
542-88-1	Bis(chloromethyl) Ether	2	56-53-1	Diethylstilbestrol	5	71-43-2	Benzene	2
152-16-9	Octamethylpyrophosphoramide	3	3083-25-8	Trichlorobutylene oxide	5	12185-10-3	Phosphorus (yellow)	2
115-32-2	Dicofol	1	680-31-9	Hexamethylphosphoramide	5	78-00-2	Tetraethyl Lead	3
93-76-5	(2,4,5-Trichlorophenoxy)acetic Acid and its salts and e	4	85-22-3	Pentabromoethylbenzene	5	75-74-1	Tetramethyl Lead	3
2813-95-8	2,4-Dinitro-6-(1-methylpropyl)phenyl Acetate	4	62-50-0	Ethylmethanesulfonate	5	20859-73-8	Aluminium Phosphide	3
88-85-7	Dinoseb and its salts and esters	4	591-78-6	2-Hexanone	5	319-84-6	Benzene Hexachloride et	4
6164-98-3	N-(4-chloro-2-methylphenyl)-N,N-dimethylmethanim	4	56-49-5	3-Methylcholanthrene	5	106-93-4	1,2-Dibromoethane	4
126-72-7	Tris (2,3-dibromopropyl) phosphate	4	930-55-2	N-Nitrosopyrrolidine	5	66733-21-9	Erionite etc.	5
545-55-1	Tris (1-aziridinyl) phosphineoxide	4	3132-64-7	3-Bromo-1,2-Epoxypropane	5	51-79-6	Ethyl carbamide	5
70-25-7	N-Methyl-N'-Nitro-N-Nitrosoguanidine	5	1888-71-7	Hexachloropropene	5	62-44-2	p-Ethoxyacetanilide	5
56-35-9	Bis (tributyl tin) oxide	1	608-93-5	Pentachlorobenzene	5	353-50-4	Carbonylfluoride	5
95-94-3	1,2,4,5-Tetrachlorobenzene	5	92-67-1	4-Aminodiphenyl	2	50-55-5	Reserpine	5
15017-02-4	N,N'-ditolyl-p-phenylenediamine	1	92-93-3	4-Nitrodiphenyl	2	50-07-7	Mitomycin C	5
91-59-8	2-Naphthylamine	2		Radioactive substances	7	76-01-7	Pentachloroethane	5
	Tributyl Tins & Triphenyl Tins	1		Asbestos types	2	56-04-2	Methylthiouracil	5
	PCBs, PCTs	1		Ozone-depleting substances		92-87-5	Benzidine	2
	Polychlorinated Naphthalenes (Cl _≥ 3)	1		(Substances cited by the Montreal Protocol)			Chlordane	1
	Chlorinated paraffine (C10-13)	6		(The isomer is included.)			Fluoroacetic Acid	3
87-68-3	Hexachlorobuta-1,3-diene	1	534-52-1	DNOC	4	17804-35-2	Benomyl	4
485-31-4	Binapacryl	4	107-06-2	Ethane, 1,2-dichloro-	4	1563-66-2	Carbofuran	4
2425-06-1	Captafol	4	75-21-8	Ethylene oxide	4	137-26-8	Thiram	4
510-15-6	Chlorobenzilate	4	76-44-8	Heptachlor	4	10265-92-6	Methamidophos	4
87-86-5	Pentachlorophenol and its salts and esters	4	6923-22-4	Monocrotophos	4	143-50-0	Chlordecone	1
3846-71-7	2-benzotriazol-2-yl-4,6-di-tert-butylphenol	1						

*:The main regulations system etc. which relate to each material are as follows.

1. Law concerning Examination and Regulation of Manufacture and Handling of Chemical substances (Japan)
2. The Law on Industrial Safety and Hygiene(Japan)
3. Poisonous and Deleterious Substance Control Law (Japan)
4. Export Trade Control Ordinance (Japan)
5. Toxic Substances Control Act ANY USE (United States)
6. EU Directive 76/769/EEC
7. Nuclear Substances Control Law (Japan)

Conditionally Banned Substances (The substance whose use is banned by its purpose or maximum acceptable limit of impurities.)

Substance	Purpose	Acceptable Limit
Cadmium and its compounds *1	Except for the following •Solder •Resin, coating, ink, thick film paste, fuse-element of thermal fuse •Resistive element (frit glass) •Glass and pigment and dye for glass •Electric contacts such as DC motor, relay switch, and breaker •Surface finishing (such as coating) •Battery and battery pack	<75(100)ppm *3,5 <20ppm*4 <5ppm*3
Lead and its compounds *1	Except for the following •Resin, coating, ink	<1000ppm*3 <100ppm*3
Mercury and its compounds *1	Except for the following •Button battery •Battery except for button battery and battery pack	<1000ppm*3 < 2% of total weight < 5ppm of total weight
Chromium VI and its compounds *1	•All	<1000ppm*3
Polybrominated biphenyls (PBBs) *1	•All	<1000ppm*3
Polybrominated diphenyl ethers (PBDEs) *1	•All	<1000ppm*3
Polyvinyl chloride (PVC)	•Retaining band	Banned
Formaldehyde	•Woodworks using fiber board, plywood	Banned
Arsenic and its compounds	•Antiseptic substance for wood	Banned
Nickel and the compound Except Alloy (for example stainless steel)	•Contact part with a human body continuously (Parts used with contacting a human skin such as headphone or microphone)	Banned
Azo compounds (Azo compound forming specific amine)*	•Parts contacting a human skin directly and continuously	Banned
PFOS Perfluorooctanesulfonic acid and its salts C ₈ F ₁₇ SO ₂ X (X = OH, Metal salt, halide, amide, and other derivatives including polymers) *6	Except for the following •Substance,Preparations (grease, oil, etc.) •Surface finishing (such as coating)	<1000ppm*3 <50ppm <1 μg/m ²

*1: The applications exempted from the EC Directive 2002/95/EC (EU/RoHS) are not covered.

*2: Specific amines are the amine compounds defined in the EC Directive 76/769/EEC, the 19th Amendment.

*3: Acceptable limit for a substance in a component consist of a homogenous material.

*4:2006/66/EC

*5: "<100ppm" is applied after relevant Danish laws and regulations are revised.

*6: The applications exempted from the EC Directive 2006/122/EC are not covered.

2) Packing material of a procured parts and a product.

In addition to 1) contents of the products, meet the following requirement.

Substance	Purpose	Acceptable Limit
Heavy metal(cadmium, lead, mercury, and hexavalent chromium)	•Packaging medium	Less than 100ppm in all *3
Polyvinyl chloride(PVC)	•Packaging medium	Banned

*3: Acceptable limit for a substance in a component consist of a homogenous material.

[ANNEX 4]

FDK CORPORATION
TO : _____

TABLE OF COMPOSITIONS

FDK EDP KEY	
FDK Part Name	
FDK Standard and Drawing No.	
Our Part Name	
Our Standard and Drawing No.	
Name of Manufacturer	
Product Weight (mg)	

Date (YYYY/MM/DD)	2005/
Company Name	
Department	
Name of Responsible Person	
TEL	
E-MAIL	

No.	Component Part	Substance Name	FDK Substance No.	CAS No.	Content (mg)	Purpose of Including	Analysed Data (ICP etc.)	MSDS	Remarks
Total Content (mg)									

[ANNEX 5]

FDK CORPORATION

TO :

Enter with 1-byte characters.

TABLE OF COMPOSITIONS (EXAMPLE)

FDK EDP KEY	
FDK Part Name	
FDK Standard and Drawing No.	
Our Part Name	Transformer 002A
Our Standard and Drawing No.	DDD-1111-10
Name of Manufacturer	ABC Industry
Product Weight (mg)	45000

Enter with 1-byte characters.

Date (YYYY/MM/DD)	
Company Name	
Department	
Name of Responsible Person	
TEL	
E-MAIL	

No.	Component Part	Substance Name	FDK Substance No.	CAS No.	Content (mg)	Purpose of Including	Analysed Data (ICP etc.)	MSDS	Remarks	
1	Core	Iron oxide	—	1309-37-1	2700	Others(constituent)	—	MSDS001		
1	Core	Trimanganese tetraoxide	49999	1317-35-7	2700	Others(constituent)	—	MSDS001		
1	Core	Zinc oxide	—	1314-13-2	12600	Others(constituent)	—	MSDS001		
2	Core cover	Propylene homopolymer	—	—	2751.96	Primary ingredient	ICP001	MSDS002		
2	Core cover	Antimony trioxide	36036	1309-64-4	242.82	Improve Flame Resistance	ICP001	MSDS002		
2	Core cover	Organic halogen compound	—	—	1052.22	Improve Flame Resistance	ICP001	MSDS002	Excluding PBB and PBDE	
3	Base	Phenolic resin	—	9003-35-4	393.9	Others(molding material)	ICP002	MSDS003		
3	Base	Paper	—	—	386.1	Others(constituent)	ICP002	M	Number of characters : Up to 40 characters	
4	Wire (Conductor)	Copper	46001	7440-50-8	19601.4	Primary ingredient	-	MSDS004		
5	Wire (Insulator)	Polyurethane resin	—	—	502.6	Others(insulation)	ICP003	MSDS004		
6	Adhesive	Silica	—	7631-86-9	1200	Primary ingredient	ICP004	MSDS005		
6	Adhesive	Titania	—	13463-67-7	400	Others(constituent)	ICP004	MSDS005		
6	Adhesive	Dialkyltin compound	—	—	20	Others(constituent)	ICP004	MSDS005		
6	Adhesive	Others	—	—	380	Others(constituent)	ICP004	MSDS005		
7	Solder	Tin	40001	7440-31-5	68.48	Primary ingredient	—	MSDS006		
7	Solder	Copper	46001	7440-50-8	0.52	Others(constituent)	—	MSDS006		
Total Content (mg)			Please make sure to fill in "Total Content (mg)" in the last row of your table.			45000	Please make sure that the product weight is equal to the total content of substances.			

Enter with double-byte characters. Up to 20 letters.

Enter with 1-byte characters. When there is no corresponding number, please enter ".".

Enter with 1-byte characters. Up to two places of decimals.

Enter with 1-byte characters. When there is no corresponding number, please enter ".".

Enter with 1-byte characters. Please assign different numbers even for same component.

Enter with double-byte characters. Up to 20 letters.

Enter with 1-byte characters. When there is no corresponding number, please enter ".".

Enter with double-byte characters. Up to 20 letters.

Enter with 1-byte characters. When there is no corresponding number, please enter ".".

Form002 (August,2005)

When there is not enough space, please insert new rows to your table and fill in. However, please do not move or insert any columns.

ENTRY INSTRUCTION FOR SURVEY SHEET

Informative Matters: Please be sure to check whether there is any omission in entry in an indispensable entry item (column of * mark) after the completion of entry.

-Instructions for Entry

1. Instructions for the entry of a survey sheet are explained in steps from 1 to 17. (The numbers for steps are assigned for the purpose of explanation, so you can enter your data regardless of the sequence.)
2. Please do not fill in or delete any cells which are not explained for entry. (You may have to fill in again because of a data read error.)
3. If you have a supplemental explanation, please enter it in the supplier input space for "Remarks" assigned to the product (item name or standard). (Please fill in the space for remarks within 300 double-byte characters.)
4. Please enter fill in the content of substance in mg (to two places of decimals).
5. Please submit your sheet after verifying that there are no mistake of input items such as FDK substance No. or content level.

Survey Sheet of FDK Contained Chemical Substances (the 5th survey), rev.1

1. Please enter the information of respondent in the cells below.

Date of answer (YYYY/MM/DD)	Step 1
Company Name	Step 2
Company Address	Step 3
Division of responsible person for the answers	Step 4
Position and Name of responsible person for the answers	Step 5
Division of Respondent	Step 6
Name of Respondent	Step 7
Tel No. of Respondent	Step 8
Fax No. of Respondent	Step 9
E-mail of Respondent	Step 10

Steps 1 – 8: Entering Basic Information of Respondent
Compulsory input items

If these spaces are not entered, you may have to fill in again at a later date.

Please enter the date of submission in the space for the date of response in the form of "YYYY/MM/DD" in the Western calendar (e.g. 2005/01/28).

Steps 9 and 10: Entering Basic Information of Respondent (Cont.)
Please enter your fax number and e-mail address if available.

Step 15: Entering YES/NO of Content
Compulsory input items

As for the use of a substance corresponding to one of the substance listed in Annex; "List of Contained Chemical Substances", in a product, please select one of the following from a pull down list;

- if the substance is used: YES (and go to Step. 16), or
- if the substance is not used: NO.

If a chemical substance is known to be unintentionally contained as impurities, the substance is considered to be contained.

In case of NO (not contained), you don't have to enter the items corresponding to the step 16 and later. If you have multiple products to be surveyed, please repeat the step 11 and later, and fill in the corresponding spaces.

* If you can't reply due to confidentiality concerns, please make sure to leave all five items (Substance Number – Purpose) blank and fill in an explanation in the space for remarks. If the content is confidential, for example, please enter as "Although copper was used for plating of exterior surface, the content is confidential." in the space for "Remarks".

FDK input section				Supplier input section																				
Entry No.	Supplier Code	Name	EDP Key	Part Name	Standard	Purchasing division	Registration Base (EDP Key)	FDK Remarks	Name of Manufacturer	Product Weight Unit : mg	Use of Ozone-Depleting Substances YES/NO	Country for Finishing Process (Office)	Remarks (if any supplemental explanation etc.)	1. Information of Contained Chemical Substances (If your answer is "YES" in the call of "Contained", you must fill in the following items.)					2. Unconditionally banned substances are displayed in red in the cell "Substance No."					
														Contained YES/NO	Substance No.	Content(mg)	Component	Component Weight(mg)	Purpose	Substance No.	Content(mg)	Component	Component Weight(mg)	Purpose
Example	123456	AAA Co., Ltd.	90010833	Cover	SOT-5560	PS	FDK		KKK Corporation	5200	NO	JAPAN		YES	12040	0.078	Vinyl cover	1000	Improve Heat Stability	16001	0.05	Sasket. Cover	3000	Colorant
Example	123499	EEE Inc.	22588740	Capacitor	PY0989-HNM123	GD	FDK		ABC Co., Ltd	1200	NO	JAPAN		YES	11006	1.02	Outlet cover	200	Universally Contained					
Example	100987	BBB CORPORATION	22588740	Stick Solder	h63a-b20	HM	GLV		Shanghai Industry Inc	250000	NO	CHINA		YES	49004	93750	Main Body	250000	Primary Constituent					
Example	467899	EDF Corp.	81697744	Shaft	B39RS-46/12	ISM	ETT		EDF Corp.	11400	YES	THAILAND		NO										
1																								
2																								
3																								
4																								
5																								
6																								
7																								
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37																								

Steps 11: Entering Manufacturer's Name
Compulsory input item

Please enter the manufacturer's name of the listed product (Note: Don't enter the manufacturer's name of the product's material.)

Step 12: Entering Product Weight
Compulsory input item

1. Please fill in the weight of one listed product. Unit: mg

2. If the unit of a product is not "pcs.", please enter the weight per unit and enter the explanation of the unit in the space for "Remarks".

Examples of Remarks:
 · Enter the weight of a liquid substance per liter.
 · Enter the weight of roll material per square meter.
 · Enter the weight of a wire material per meter.

Step 13: Entering the Use of Ozone-depleting Substance

If any ozone-depleting substances are clearly used, please enter them.

As for the use of a substance corresponding to one of the substance group No.23, "Ozone-depleting substances" listed in Annex; "List of Contained Chemical Substances", in the manufacturing process of a manufacturer, please select one of the following from a pull down list;

- if the substance is used: YES, or
- if the substance is not used: NO.

(For a cell with a pull down list, a down-arrow will appear on the right when you click it. Then you can select one of the words from the list after you click the arrow.)

Step 14: Entering Finishing Country
Compulsory input items

The country where a product was processed just before its delivery.

Step 16: Entering Information of Contained Chemical Substances
When your answer in the step 15 is YES, you have to fill in all five items (Substance Number – Purpose).

Substance Number
1) Please enter the FDK chemical substance number listed in Annex; "List of Contained Chemical Substances".
2) If a chemical substance having same substance number is used in multiple components, please enter the number in different spaces.

Content
Please enter the content of a substance contained in a component in mg to two places of decimals.

Component
If a component is a component itself, please enter as "Main Body". (Fill in within 300 byte characters.)

Component Weight
Please enter the weight in mg.

Purpose
Please select from the pull down list. If the purpose is not listed in the list, please enter an appropriate purpose. In such case a message saying "The input is ..." will appear, please continue entering by selecting "YES".

Step 17: Entering Information of Contained Chemical Substances (Cont.)
If you have more than one chemical substance, the input of these items is compulsory.

If these spaces are not entered, you may have to fill in again at a later date.

If the numbers of information of contained chemical substance is one, the entry procedure is completed at Step 16. If the numbers of information of contained chemical substance is more than one, please enter all the information of contained chemical substance in the space marked with "2" and later according to Step 16.

If all the information of contained chemical substances are inputted to any of the spaces from 1 to 45, you don't have to input them from the far left.

[ANNEX 8]

FDK CORPORATION
General Purchasing Department
Environmental Technical Center

ENTRY MANUAL FOR FDK SURVEY SHEET OF CONTAINED CHEMICAL SUBSTANCES (THE 5TH SURVEY)

This entry manual explains notices for entry and submission of the “Entry Manual for Survey Sheet of FDK Contained Chemical Substances (the 5th survey)”. Please fill in the sheet and submit it to us according to the following instructions.

1. Entering Survey Sheet

(1) Answer Format (Survey Sheet)

Survey Sheet of FDK Contained Chemical Substances (the 5th survey, rev.1)

(File Name: Company name_FDK survey sheet 5R1.xls)

(2) Survey Target Substance – List of Contained Chemical Substances the 5th survey

(3) Survey Items (Entry Fields for Customer)

- ① Basic Information of Respondent
- ② Name of Manufacturer
- ③ Weight of Product Unit: mg
- ④ Use of Ozone-depleting Substances in Manufacturing Process (YES / NO)
- ⑤ Finishing Country (Business Place)
- ⑥ Contained Substance(s) in List of Contained Chemical Substances (YES / NO)
- ⑦ Contained Chemical Substance(s) (Substance No., Content (mg), Component, Component Weight (mg), Purpose)
- ⑧ Others (If we any items are requested by us other than items 1-7.)

(4) Instruction for Entry

Please fill in the Excel file answer formats according to [ANNEX7].

(5) Notices for Entry

- ① The field marked with “*” in the survey sheet must be filled out, so please fill in the space without fail if the substance is not contained.
- ② Please do not delete or insert rows, columns or cells, or modify formats.
- ③ Please do not write anything outside entry fields.
- ④ Please submit your sheet after verifying that there are no mistake of FDK

substance No. or content level and no omission of compulsory input items.

- ⑤ Please fill in according to the instructions in the entry manual. We may ask you to resubmit your sheet if it contains any entry which does not comply with the instructions.
- ⑥ In case the delivered part is a raw material and the data of contained substances is confidential, please fill in the fact in the space for remarks.

(6) Entering Chemical Substances

- ① If chemical substances are known to be contained as impurities, please write the name.
- ② Please write the FDK substance numbers for contained chemical substances. When searching substance number, use the attached search table (free use). If no search result is obtained, the substance is to be excluded.
- ③ If same chemical substance is contained in multiple components of one part, please fill in the different spaces (spaces numbered with “1 through 45”) in your survey sheet for each component.

(7) Entering Content

Please fill in the spaces for “Content” with the weights of the chemical substances contained in the components constituting a product in “mg” to two places of decimals.

2. Requests on Submission

- (1) Please return your survey sheet in the form of Excel file.
- (2) If you wish to submit your survey sheet in the form of paper or pdf file, please submit your sheet in the form of Excel file, too.

End

[ANNEX 9]

FDK CORPORATION
TO: _____

Certificate of Contents

Date (YYYY/MM/DD)	2005/
Company Name	
Department	
Name of Responsible Person	(Signature)
TEL	
E-MAIL	

We guarantee that the contents of the information of the chemical substances contained in the products and their packaging materials which are delivered to FDK (Table of Compositions, Survey Sheet, Analysis Data, and MSDS) are true and correct.

[ANNEX 10]

LIST OF CONTAINED CHEMICAL SUBSTANCES (THE 5TH EDIT) FDK Classification

1: Unconditionally Banned

2: Conditionally Banned

3: Monitored

FDK Substance group No.	Substance group	FDK Substance No.	CAS №	Substance	Chemical formula	FDK Classification		
						1	2	3
1	Cadmium and its compounds	11001	7440-43-9	Cadmium	Cd		●	
		11023	10108-64-2	Cadmium chloride	CdCl ₂		●	
		11026	1306-19-0	Cadmium oxide	CdO		●	
		11039	1306-23-6	Cadmium sulfide	CdS		●	
		11040	10124-36-4	Cadmium sulfate	CdSO ₄		●	
		11999	—	Other cadmium compounds	-		●	
2	Lead and its compounds	12029	78-00-2	Tetraethyl Lead	Pb(C ₂ H ₅) ₄	●		
		12032	75-74-1	Tetramethyl Lead	Pb(CH ₃) ₄	●		
		12001	7439-92-1	Lead	Pb		●	
		12002	1319-46-6	Lead(II) carbonate basic	2PbCO ₃ ·Pb(OH) ₂		●	
		12014	7758-97-6	Lead(II) chromate	PbCrO ₄		●	
		12015	1344-37-2	Lead chromate (chrome yellow)	PbCrO ₄		●	
		12021	1072-35-1	Lead stearate	Pb(C ₁₇ H ₃₅ COO) ₂		●	
		12028	12060-00-3	Lead(II) titanate	PbTiO ₃		●	
		12041	7784-40-9	Lead arsenate	PbHAsO ₄		●	
		12053	7446-27-7	Lead(II) phosphate	Pb ₃ (PO ₄) ₂		●	
		12054	1344-36-1	Lead hydroxycarbonate	2PbCO ₃ ·Pb(OH) ₂		●	
		12057	1317-36-8	Lead(II) oxide	PbO		●	
		12067	1314-41-6	Lead(II,IV) oxide	Pb ₃ O ₄		●	
		12072	301-04-2	Lead acetate	Pb(CH ₃ COO) ₂		●	
		12073	6080-56-4	Lead(II) acetate trihydrate	(CH ₃ COO) ₂ Pb·3H ₂ O		●	
		12077	598-63-0	Lead(II) carbonate	PbCO ₃		●	
		12080	1309-60-0	Lead(IV) oxide	PbO ₂		●	
		12081	1314-87-0	Lead(II) sulfide	PbS		●	
		12082	7446-14-2	Lead(II) sulfate	PbSO ₄		●	
		12083	15739-80-7	Lead(II) sulfate	PbXSO ₄		●	
12085	12656-85-8	Lead chromate molybdate sulfate red	PbCrO ₄ , PbMoO ₄ , PbSO ₄		●			
12999	—	Other lead compounds	-		●			
3	Mercury and its compounds	13001	7439-97-6	Mercury	Hg		●	
		13011	587-85-9	Diphenylmercury	(C ₆ H ₅) ₂ Hg		●	
		13012	593-74-8	Dimethylmercury	(CH ₃) ₂ Hg		●	
		13024	22967-92-6	Methylmercury salts	CH ₃ HgX		●	
		13043	10112-91-1	Mercury(I) chloride	HgCl		●	
		13044	7487-94-7	Mercury(II) chloride	HgCl ₂		●	
		13047	21908-53-2	Mercury(II) oxide	HgO		●	
		13048	15829-53-5	Mercury(I) oxide, black	Hg ₂ O		●	
		13056	10045-94-0	Mercury(II) nitrate	HgN ₂ O ₆		●	
		13059	1600-27-7	Mercury(II) acetate	Hg(CH ₃ COO) ₂		●	
		13063	628-86-4	Mercury(II) Fulminate	Hg(ONC) ₂		●	
		13066	7783-36-0	Mercury(I) Sulfate	Hg ₂ SO ₄		●	
		13068	33631-63-9	Mercury chloride	-		●	
		13999	—	Other mercury compounds	-		●	
4	Chromium VI and its compounds	14005	7789-00-6	Potassium chromate	K ₂ CrO ₄		●	
		14006	13765-19-0	Calcium chromate	CaCrO ₄		●	
		14009	7789-06-2	Strontium chromate (1:1)	SrCrO ₄		●	
		14012	7775-11-3	Sodium chromate	Na ₂ CrO ₄		●	
		14014	10294-40-3	Barium Chromate(VI)	BaCrO ₄		●	
		14031	13530-65-9	Zinc chromate	ZnCrO ₄		●	
		14033	7789-09-5	Ammoniumdichromate	(NH ₄) ₂ Cr ₂ O ₇		●	
		14034	7778-50-9	Potassium dichromate	K ₂ Cr ₂ O ₇		●	
		14038	10588-01-9	Sodium dichromate	Na ₂ Cr ₂ O ₇		●	
		14046	1333-82-0	Chromium(VI) oxide	CrO ₃		●	
		14999	—	Other hexavalent chromium compounds	-		●	

[ANNEX 10]

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FDK Substance group No.	Substance group	FDK Substance No.	CAS №	Substance	Chemical formula	FDK Classification		
						1	2	3
5	Arsenic and the compound ※Antiseptic substance for wood (Other usages are observed.)	15001	7440-38-2	Arsenic	As		●	
		15024	1303-28-2	Arsenic pentoxide	As ₂ O ₅		●	
		15029	1327-53-3	Arsenic trioxide	As ₂ O ₃		●	
		15041	1303-00-0	Gallium arsenide	GaAs		●	
		15066	15606-95-8	Triethyl arsenate	C ₆ H ₁₅ AsO ₄		●	
		15999	—	Other arsenic compounds	-		●	
6	Beryllium and the compound	16001	7440-41-7	Beryllium	Be			●
		16009	1304-56-9	Beryllium oxide	BeO			●
		16999	—	Other beryllium compounds	-			●
7	Nickel and the compound The alloy (The example: stainless steel) is excluded (Contact part with a human body continuously.) (Other usages are observed.)	17007	7718-54-9	Nickelouschloride	NiCl ₂		●	
		17009	1313-99-1	Nickel(II) oxide	NiO		●	
		17015	3333-67-3	Nickel(II) carbonate	NiCO ₃		●	
		17018	7786-81-4	Nickel(II) Sulfate	NiSO ₄		●	
		17998	7440-02-0	Nickel	Ni		●	
		17999	—	Other nickel compounds	-		●	
8	Specific, organic tin compound (TBTs , TPTs)	18021	56-35-9	Bis (tributyl tin) oxide	C ₂₄ H ₅₄ OSn ₂	●		
		18001	56-36-0	Tributyltin acetate	(C ₄ H ₉) ₃ SnOCOCH ₃	●		
		18002	1461-22-9	Tributyltin chloride	(C ₄ H ₉) ₃ SnCl	●		
		18003	6517-25-5	Tributyltin sulfamate	(C ₄ H ₉) ₃ SnSO ₃ NH ₂	●		
		18004	85409-17-2	Tributyltin naphthenate	-	●		
		18005	1983-10-4	Tributyltin fluoride	(C ₄ H ₉) ₃ SnF	●		
		18006	2155-70-6	Tributyltin methacrylate	(C ₄ H ₉) ₃ SnC ₄ H ₇ O ₂	●		
		18007	26239-64-5	Mixture of tributyltin 1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthrenecarboxylate and its analogs (Tributyltin rosin salt)	C ₃₂ H ₅₆ O ₂ Sn	●		
		18008	3090-36-6	Tributyltin laurate	(C ₄ H ₉) ₃ SnC ₁₂ H ₂₂ O ₂	●		
		18012	1803-12-9	Triphenyltin N,N'-dimethyldithiocarbamate	(C ₆ H ₅) ₃ Sn(CH ₃) ₂ NCS ₂	●		
		18013	900-95-8	Triphenyltin acetate	(C ₆ H ₅) ₃ SnOCOCH ₃	●		
		18014	7094-94-2	Triphenyltin chloroacetate	(C ₆ H ₅) ₃ SnOCOCH ₂ Cl	●		
		18015	379-52-2	Triphenyltin fluoride	(C ₆ H ₅) ₃ SnF	●		
		18016	47672-31-1	Triphenyltin fatty acid salts (C=9-11)	-	●		
		18017	31732-71-5	Bis(tributyltin) 2,3-dibromosuccinate	((C ₄ H ₉) ₃ Sn) ₂ C ₂ H ₂ (Br) ₂ (COO) ₂	●		
		18018	4782-29-0	Bis(tributyltin) phthalate	(C ₆ H ₄)(COO) ₂ ((C ₄ H ₉) ₃ Sn) ₂	●		
		18019	6454-35-9	Bis(tributyltin) fumarate	C ₂ H ₂ (COO) ₂ ((C ₄ H ₉) ₃ Sn) ₂	●		
		18020	14275-57-1	Bis(tributyltin) maleate	C ₂ H ₂ (COO) ₂ ((C ₄ H ₉) ₃ Sn) ₂	●		
		18022	639-58-7	Triphenyltin chloride	(C ₆ H ₅) ₃ SnCl	●		
		18025	76-87-9	Triphenyltin hydroxide	(C ₆ H ₅) ₃ SnOH	●		
		18026	—	Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate(alkyl; C=8)	-	●		
		18027	—	Mixture of tributyltin cyclopentanecarboxylate and its analogs (Tributyltin naphthenate)	(C ₄ H ₉) ₃ SnCO ₃ C ₅ H ₉	●		
		18028	18380-72-8	Triphenyltin fatty acid salts (C=9-11)	-	●		
18029	47672-31-1	Triphenyltin fatty acid salts (C=9-11)	-	●				
18030	94850-90-5	Triphenyltin fatty acid salts (C=9-11)	-	●				
18031	7342-38-3	Tributyltinchloride	-	●				
18999	—	Other Tributyl Tins & Triphenyl Tins	-	●				

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FDK Substance group No.	Substance group	FDK Substance No.	CAS №	Substance	Chemical formula	FDK Classification			
						1	2	3	
9	Organotin compound	19004	78-04-6	Dibutyl tin maleate	C ₁₂ H ₂₀ O ₄ Sn			●	
		19017	13121-70-5	Tricyclohexyltin hydroxide	C ₁₈ H ₃₄ OSn	●			
		19018	818-08-6	Dibutyltin oxide	C ₈ H ₁₈ OSn			●	
		19019	1067-33-0	Dibutyltin diacetate	C ₁₂ H ₂₄ O ₄ Sn			●	
		19020	77-58-7	Dibutyltin dilaurate	C ₃₂ H ₆₄ O ₄ Sn			●	
		19021	870-08-6	Diocetyl Tin Oxide	C ₁₆ H ₃₄ OSn			●	
		19022	3648-18-8	Diocetyl tin dilaurate	C ₄₀ H ₈₀ O ₄ Sn			●	
		19999	-	Other organotin compound	-				●
10	Organophosphorus compound	20001	13171-21-6	Dimethyl-(diethylamido-1-chlorocrotonyl) phosphate	C ₁₀ H ₁₉ CLNO ₅ P	●			
		20002	56-38-2	Diethyl-paranitrophenyl- thiophosphate	C ₁₀ H ₁₄ NO ₃ PS	●			
		20003	8022-00-2	Diethyl-paranitrophenyl- thiophosphate	C ₆ H ₁₅ O ₃ PS ₂	●			
		20004	298-00-0	Dimethylparanitrophenyl thiophosphate	(CH ₃ O) ₂ P(=S)O(C ₆ H ₄)NO ₂	●			
		20005	107-49-3	Tetraethyl Pyrophosphate	(C ₂ H ₅ O) ₂ P(:O)OP(:O)(OC ₂ H ₅) ₂	●			
11	Polychlorinated biphenyls (PCBs , PCTs)	21001	1336-36-3	Polychlorinated biphenyls	Unspecified	●			
		21002	61788-33-8	Polychlorinated terphenyls	Unspecified	●			
		21003	81161-70-8	monomethyl dichlorojiphenylm ethane	-	●			
		21004	99688-47-8	Bromobenzylbro motoluene	-	●			
		21005	76253-60-6	Dichloro ((dichlorophenyl) methyl) methylbenzene	-	●			
		21999	-	Other PCBs	-	●			
12	Polychlorinated Naphthalenes (Cl≥3)	22001	70776-03-3	Polychlorinated Naphthalenes	C ₁₀ H _{8-x} Cl _x (x≥3)	●			
		22999	-	Polychlorinated Naphthalenes (Cl≥3)	-	●			
13	Chlorinated paraffine (C10-13)	23002	108171-26-2	Chlorinated Paraffins (C12, 60% Chlorine)	-	●			
		23004	61788-76-9	Alkanes, chloro	-	●			
		23005	85535-84-8	Chlorinated paraffine (C10-13)	Unspecified	●			
		23006	71011-12-6	Chlorinated Paraffins (C12-13)	-	●			
		23007	64754-90-1	Chlorinated polyethylene	-	●			
		23999	-	Other Chlorinated Paraffins	-	●			
14	Polybrominated biphenyls (PBBs)	24001	2052-07-5	Polybrominated biphenyls (PBBs)	C ₁₂ H _x Br _(10-x)		●		
		24002	2113-57-7				●		
		24003	13654-09-6				●		
		24004	27753-52-2				●		
		24005	27858-07-7				●		
		24006	59536-65-1				●		
		24007	67774-32-7				●		
		24008	36355-01-8				●		
		24009	92-86-4				●		
		24018	92-66-0			4-Bromobiphenyl		●	
		24019	59080-34-1			Tribromobiphenyl		●	
		24020	40088-45-7			Tetrabromobiphenyl		●	
		24021	56307-79-0			Pentabromobiphenyl		●	
		24022	59080-40-9			Hexabromobiphenyl		●	
	24023	35194-78-6	Heptabromobiphenyl		●				
	24024	61288-13-9	Octabromobiphenyl		●				
	Polybrominated diphenyl ethers (PBDEs)	24010	1163-19-5	Polybrominated diphenyl ethers (PBDEs)	C ₁₂ H _X Br _(10-X) O		●		
		24011	63936-56-1				●		
		24012	32536-52-0				●		
		24013	68928-80-3				●		
24014		36483-60-0				●			
24015		32534-81-9				●			

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						1	2	3
		24016	40088-47-9				●	
		24025	2050-47-7	Dibromodiphenyl ether			●	
		24026	49690-94-0	Tribromodiphenyl ether			●	
		24999	—	Other polybrominated biphenyls, Other polybrominated diphenyl ethers	-		●	
15	Asbestos types	25001	1332-21-4	Asbestos	-	●		
		25002	132207-32-0	Asbestos	-	●		
		25003	132207-33-1	Asbestos	-	●		
		25005	77536-66-4	Actinolite	Unspecified	●		
		25006	12172-73-5	Amosite	Unspecified	●		
		25008	77536-67-5	Anthophyllite	Unspecified	●		
		25009	12001-29-5	Chrysotile	Unspecified	●		
		25010	12001-28-4	Crocidolite	Unspecified	●		
		25011	77536-68-6	Tremolite	Unspecified	●		
25999	—	Other asbestos	-	●				
16	Azo compounds (Amines specified by EU directives, Chemical Examination Law (Japan), etc.)	26001	15017-02-4	N,N'-ditolyl-p-phenylenediamine	-	●		
		26002	91-59-8	2-naphthylamine	C ₁₀ H ₉ N	●	●	
		26003	92-67-1	4-aminodiphenyl	C ₁₂ H ₁₁ N	●	●	
		26004	92-93-3	4-nitrodiphenyl	-	●		
		26005	92-87-5	Benzidine	C ₁₂ H ₁₂ N ₂	●	●	
		26006	137-17-7	2,4,5-trimethylaniline	C ₉ H ₁₃ N		●	
		26007	615-05-4	2,4-diaminoanisole	C ₇ H ₁₀ N ₂ O		●	
		26008	95-80-7	2,4-toluenediamine	C ₇ H ₁₀ N ₂		●	
		26009	99-55-8	2-amino-4-nitrotoluene	C ₇ H ₈ N ₂ O ₂		●	
		26010	91-94-1	3,3'-dichlorobenzidine	C ₁₂ H ₁₀ Cl ₂ N ₂		●	
		26011	838-88-0	3,3'-dimethyl-4,4'-diaminodiphenylmethane	C ₁₅ H ₁₈ N ₂		●	
		26012	119-93-7	3,3'-dimethylbenzidine	C ₁₄ H ₁₆ N ₂		●	
		26013	119-90-4	3,3'-dimethoxybenzidine	C ₁₄ H ₁₆ N ₂ O ₂		●	
		26014	101-80-4	4,4'-diaminodiphenylether	C ₁₂ H ₁₂ N ₂ O		●	
		26015	101-77-9	4,4'-diaminodiphenylmethane	C ₁₃ H ₁₄ N ₂		●	
		26016	139-65-1	4,4'-thiodianiline	C ₁₂ H ₁₂ N ₂ S		●	
		26017	101-14-4	4,4'-methylene-bis-(2-chloroaniline)	C ₁₃ H ₁₂ Cl ₂ N ₂		●	
		26018	60-09-3	4-Aminoazobenzene	C ₁₂ H ₁₁ N ₃		●	
		26019	95-69-2	4-chloro- o-toluidine	C ₇ H ₈ ClN		●	
		26020	90-04-0	o-anisidine	C ₇ H ₉ NO		●	
26021	97-56-3	o-aminoazotoluene	C ₁₄ H ₁₅ N ₃		●			
26022	95-53-4	o-toluidine	C ₇ H ₉ N		●			
26023	106-47-8	p-chloroaniline	C ₆ H ₆ ClN		●			
26024	120-71-8	2-methoxy-5-methylaniline	C ₈ H ₁₁ NO		●			
18	Chlordane	28001	57-74-9	Chlordane	C ₁₀ H ₆ Cl ₈	●		
		28002	12789-03-6	Chlordane,technical	-	●		
		28003	27364-13-8	Oxychlordane	C ₁₀ H ₄ Cl ₈ O	●		
		28999	39765-80-5	Trans-nonachlor	C ₁₀ H ₅ Cl ₉	●		
19	Fluoroacetic Acid	29001	144-49-0	Monofluoroacetate	FCH ₂ COOH	●		
		29002	640-19-7	Fluoroacetamide	FCH ₂ CONH ₂	●		
		29003	62-74-8	Sodium fluoroacetate	C ₂ H ₂ O ₂ FNa	●		

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						1	2	3
20	Pentachlorophenol	30001	87-86-5	Pentachlorophenol	C ₆ Cl ₅ OH	●		
		30999	—	Other pentachlorophenol	-	●		
21	Other prohibition substances	31001	732-26-3	2,4,6-tri-tert-butylphenol	C ₁₈ H ₃₀ O	●		
		31002	309-00-2	Aldrin	C ₁₂ H ₈ Cl ₆	●		
		31003	72-20-8	Endrin	C ₁₂ H ₈ Cl ₆ O	●		
		31004	50-29-3	Chlorophenothane	Cl ₃ CCH(C ₆ H ₄ Cl) ₂	●		
		31005	60-57-1	Dieldrin	C ₁₂ H ₈ Cl ₆ O	●		
		31006	8001-35-2	Toxaphene	approx. C ₁₀ H ₁₀ Cl ₈	●		
		31007	118-74-1	Hexachlorobenzene	C ₆ Cl ₆	●		
		31008	2385-85-5	Mirex	C ₁₀ Cl ₁₂	●		
		31009	542-88-1	Bis(chloromethyl) Ether	(ClCH ₂) ₂ O	●		
		31010	71-43-2	Benzene	C ₆ H ₆	●		
		31012	152-16-9	Octamethylpyrophosphoramidate	C ₈ H ₂₄ N ₄ O ₃ P ₂	●		
		31013	20859-73-8	Aluminium Phosphide	AlP	●		
		31015	106-93-4	1,2-Dibromoethane	BrCH ₂ CH ₂ Br	●		
		31016	93-76-5	(2,4,5-Trichlorophenoxy)acetic Acid	Cl ₃ C ₆ H ₂ OCH ₂ COOH	●		
		31017	2813-95-8	2,4-Dinitro-6-(1-methylpropyl)phenyl Acetate	C ₁₂ H ₁₄ N ₂ O ₆	●		
		31018	88-85-7	2,4-Dinitro-6-(1-methylpropyl)phenol	(O ₂ N) ₂ C ₆ H ₂ (OH)CH(CH ₃)CH ₂ CH ₃	●		
		31019	6164-98-3	N'-(4-chloro-2-methylphenyl)-N,N-dimethylmethanimidamide	ClC ₆ H ₃ (CH ₃)(N=CHN(CH ₃) ₂)	●		
		31020	126-72-7	Tris (2,3-dibromopropyl) phosphate	(Br ₂ C ₃ H ₅ O) ₃ PO	●		
		31021	545-55-1	Tris (1- aziridinyl) phosphineoxide	C ₆ H ₁₂ N ₃ OP	●		
		31022	319-84-6	α-Benzene Hexachloride	C ₆ H ₆ Cl ₆	●		
		31023	319-85-7	β-Benzene Hexachloride	C ₆ H ₆ Cl ₆	●		
		31024	58-89-9	γ-Benzene Hexachloride	C ₆ H ₆ Cl ₆	●		
		31025	608-73-1	Benzene hexachloride	C ₆ H ₆ Cl ₆	●		
		31026	6108-10-7	ε-Benzene Hexachloride	C ₆ H ₆ Cl ₆	●		
		31027	115-32-2	2,2,2-trichloro-1,1-bis(4-chlorophenyl)ethanol	(Cl(C ₆ H ₄) ₂ C(OH)CCl ₃	●		
		31028	485-31-4	Binapacryl	C ₁₅ H ₁₈ N ₂ O ₆	●		
		31029	2425-06-1	1,2,3,6-tetrahydro-N-(1,1,2,2-tetrachloroethylthio)phthalimide	C ₁₀ H ₉ Cl ₄ NO ₂ S	●		
		31030	510-15-6	Chlorobenzilate	C ₁₆ H ₁₄ Cl ₂ O ₃	●		
		31031	534-52-1	4,6-dinitro-o-cresol	C ₇ H ₆ N ₂ O ₅	●		
		31032	76-44-8	Heptachlor	C ₁₀ H ₅ Cl ₇	●		
		31033	6923-22-4	Monocrotophos	C ₇ H ₁₄ NO ₅ P	●		
		31034	17804-35-2	Benomyl	C ₁₄ H ₁₈ N ₄ O ₃	●		
31035	1563-66-2	Carbofuran	C ₁₂ H ₁₅ NO ₃	●				
31036	10265-92-6	Methamidophos	C ₂ H ₈ NO ₂ PS	●				
31037	624-49-7	Dimethyl fumarate		●				
31038	3846-71-7	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	C ₂₀ H ₂₅ N ₃ O	●				
31039	143-50-0	Chlordecone	C ₁₀ Cl ₁₀ O	●				
31040	18185-10-3	Phosphorus (yellow)	P ₄	●				
57057	87-68-3	hexachlorobuta-1,3-diene	C ₄ Cl ₆	●				
22	Other prohibition substances	32001	95-94-3	1,2,4,5-Tetrachlorobenzene	(C ₆ H ₂)Cl ₄	●		
		32002	99-35-4	1,3,5-Trinitrobenzene	C ₆ H ₃ (NO ₂) ₃	●		
		32003	107-04-0	1-Bromo-2-Chloroethane	BrCH ₂ CH ₂ Cl	●		
		32004	87-63-8	2-Chloro-6-Methylaniline	ClC ₆ H ₃ (CH ₃)NH ₂	●		
		32005	591-78-6	2-Hexanone	CH ₃ (CH ₂) ₃ COCH ₃	●		

[ANNEX 10]

LIST OF CONTAINED CHEMICAL SUBSTANCES (THE 5TH EDIT) FDK Classification

1: Unconditionally Banned

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FDK Substance group No.	Substance group	FDK Substance No.	CAS №	Substance	Chemical formula	FDK Classification		
						1	2	3
		32006	56-49-5	3-Methylcholanthrene	C ₂₁ H ₁₆	●		
		32007	3165-93-3	4-Chloro-O-Toluidinehydrochloride	CH ₃ (C ₆ H ₃)NH ₂ (Cl).HCl	●		
		32008	101-55-3	4-Bromophenylphenylether	Br(C ₆ H ₄)O(C ₆ H ₅)	●		
		32009	1116-54-7	N-Nitrosodiethanolamine	(C ₂ H ₅ O) ₂ NN=O	●		
		32010	930-55-2	N-Nitrosopyrrolidine	C ₄ H ₈ N ₂ O	●		
		32011	70-25-7	N-Methyl-N'-Nitro-N-Nitrosoguanidine	CH ₃ N(NO)C(=NH)NHNO ₂	●		
		32012	615-53-2	N-Methyl-N-Nitrosourethane	CH ₃ N(NO)COOC ₂ H ₅	●		
		32013	3132-64-7	3-Bromo-1,2-Epoxypropane	C ₃ H ₅ BrO	●		
		32014	12510-42-8	Erionite	NaKCaSi ₁₂ Al ₄ O ₃₃₋₁₂ H ₂ O	●		
		32015	66733-21-9	Erionite		●		
		32016	51-79-6	Ethyl carbamate	H ₂ NCOOC ₂ H ₅	●		
		32017	56-53-1	Diethylstilbestrol	HO(C ₆ H ₄)C(C ₂ H ₅)=C(C ₂ H ₅)(C ₆ H ₄)OH	●		
		32018	3083-25-8	Trichlorobutylene oxide		●		
		32019	62-44-2	p-Ethoxyacetanilide	CH ₃ CH ₂ O(C ₆ H ₄)NHCOCH ₃	●		
		32020	353-50-4	Carbonylfluoride	F ₂ CO	●		
		32021	1888-71-7	Hexachloropropene		●		
		32022	680-31-9	Hexamethylphosphoramide	(N(CH ₃) ₂) ₃ PO	●		
		32023	76-01-7	Pentachloroethane	CHCl ₂ CCl ₃	●		
		32024	608-93-5	Pentachlorobenzene	C ₆ HCl ₅	●		
		32025	85-22-3	Pentabromoethylbenzene		●		
		32026	50-07-7	Mitomycin C	C ₁₅ H ₁₈ N ₄ O ₅	●		
		32027	62-50-0	Ethylmethanesulfonate	CH ₃ SO ₃ C ₂ H ₅	●		
		32028	56-04-2	Methylthiouracil	C ₅ H ₆ N ₂ OS	●		
		32029	50-55-5	Reserpine	C ₃₃ H ₄₀ N ₂ O ₉	●		
		32035	107-06-2	1,2-dichloroethan	C ₂ H ₄ Cl ₂	●		
		32045	137-26-8	Tetramethylthiuramdisulfide	C ₆ H ₁₂ N ₂ S ₄	●		
		32058	75-21-8	Ethylene oxide	(CH ₂) ₂ O	●		
22	Other conditionally banned substances (Banned is a packing material and a union band.)	32053	9002-86-2	Poly vinyl chloride(PVC)	(CH ₂ CHCl) _n		●	
	Other conditionally banned substances (It banned the usage of the exquisite woodwork that uses the fiber board and plywood.)	32054	50-00-0	Formaldehyde	HCHO		●	
		32059	-	Perfluorooctane Sulfonates (PFOS) C ₈ F ₁₇ SO ₂ X, where X = OR, NR or other derivative	C ₈ F ₁₇ SO ₂ X, where X = OR, NR or other derivative		●	
23	Ozone-depleting substances (Substances cited by the Montreal Protocol)	33001	75-69-4	CFC-11	CFCl ₃	●		
		33002	75-71-8	CFC-12	CF ₂ Cl ₂	●		
		33003	76-13-1	CFC-113	C ₂ F ₃ Cl ₃	●		
		33004	1320-37-2	CFC-114	C ₂ F ₄ Cl ₂	●		
		33005	76-14-2	CFC-114	ClCF ₂ CF ₂ Cl	●		
		33006	374-07-2	CFC-114a	CCl ₂ FCF ₃	●		
		33007	76-15-3	CFC-115	C ₂ F ₅ Cl	●		
		33008	353-59-3	Halon 1211	CF ₂ BrCl	●		
		33009	75-63-8	Halon 1301	CF ₃ Br	●		
		33010	124-73-2	Halon 2402	C ₂ F ₄ Br ₂	●		
		33011	75-72-9	CFC-13	CF ₃ Cl	●		
		33012	354-56-3	CFC-111	C ₂ FCl ₃	●		

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FDK Substance group No.	Substance group	FDK Substance No.	CAS №	Substance	Chemical formula	FDK Classification		
						1	2	3
		33013	76-12-0	CFC-112	CCl ₂ FCCl ₂ F	●		
		33014	76-11-9	CFC-112a	CCl ₃ CClF ₂	●		
		33099	28605-74-5	CFC-112	C ₂ F ₂ Cl ₄	●		
		33015	135401-87-5	CFC-211	C ₃ FCl ₇	●		
		33100	422-78-6	CFC-211		●		
		33016	3182-26-1	CFC-212	C ₃ F ₂ Cl ₆	●		
		33017	1652-89-7	CFC-213	C ₃ F ₃ Cl ₅	●		
		33101	134237-31-3	CFC-213		●		
		33018	2268-46-4	CFC-214	C ₃ F ₄ Cl ₄	●		
		33102	29255-31-0	CFC-214		●		
		33019	1652-81-9	CFC-215	C ₃ F ₅ Cl ₃	●		
		33103	1599-41-3	CFC-215a	CF ₃ CCl ₂ CClF ₂	●		
		33020	661-97-2	CFC-216	C ₃ F ₆ Cl ₂	●		
		33021	422-86-6	CFC-217	C ₃ F ₇ Cl	●		
		33022	56-23-5	Carbon tetrachloride	CCl ₄	●		
		33023	71-55-6	1,1,1-Trichloroethane	C ₂ H ₃ Cl ₃	●		
		33062	1868-53-7	Dibromofluoromethane	CHFBr ₂	●		
		33063	75-61-6	Dibromofluoromethane	CHFBr ₂	●		
		33064	1511-62-2	Bromodifluoromethane	CHF ₂ Br	●		
		33065	373-52-4	Bromofluoromethane	CH ₂ FBr	●		
		33066	306-80-9	Tetrabromofluoroethane	C ₂ HFBBr ₄	●		
		33067	—	Tribromodifluoroethane	C ₂ HF ₂ Br ₃	●		
		33068	354-04-1	Dibromotrifluoroethane	C ₂ HF ₃ Br ₂	●		
		33069	124-72-1	Bromotetrafluoroethane	C ₂ HF ₄ Br	●		
		33070	—	Tribromofluoroethane	C ₂ H ₂ FBr ₃	●		
		33071	75-82-1	Dibromodifluoroethane	C ₂ H ₂ F ₂ Br ₂	●		
		33072	421-06-7	Bromotrifluoroethane	C ₂ H ₂ F ₃ Br	●		
		33073	358-97-4	Dibromofluoroethane	C ₂ H ₃ FBr ₂	●		
		33074	—	Bromodifluoroethane	C ₂ H ₃ F ₂ Br	●		
		33075	762-49-2	Bromofluoroethane	C ₂ H ₄ FBr	●		
		33076	—	Hexabromofluoropropane	C ₃ HFBBr ₆	●		
		33077	—	Pentabromodifluoropropane	C ₃ HF ₂ Br ₅	●		
		33078	—	Tetrabromotrifluoropropane	C ₃ HF ₃ Br ₄	●		
		33079	—	Tribromotetrafluoropropane	C ₃ HF ₄ Br ₃	●		
		33080	431-78-7	Dibromopentafluoropropane	C ₃ HF ₅ Br ₂	●		
		33081	2252-79-1	Bromohexafluoropropane	C ₃ HF ₆ Br	●		
		33082	—	Pentabromofluoropropane	C ₃ H ₂ FBr ₅	●		
		33083	—	Tetrabromodifluoropropane	C ₃ H ₂ F ₂ Br ₄	●		
		33084	—	Tribromotrifluoropropane	C ₃ H ₂ F ₃ Br ₃	●		
		33085	—	Dibromotetrafluoropropane	C ₃ H ₂ F ₄ Br ₂	●		
		33086	460-88-8	Bromopentafluoropropane	C ₃ H ₂ F ₅ Br	●		
		33087	—	Tetrabromofluoropropane	C ₃ H ₃ FBr ₄	●		
		33088	70192-80-2	Tribromodifluoropropane	C ₃ H ₃ F ₂ Br ₃	●		
		33089	70192-83-5	Dibromotrifluoropropane	C ₃ H ₃ F ₃ Br ₂	●		
		33090	679-84-5	Bromotetrafluoropropane	C ₃ H ₃ F ₄ Br	●		
		33091	75372-14-4	Tribromofluoropropane	C ₃ H ₄ FBr ₃	●		
		33092	460-25-3	Dibromodifluoropropane	C ₃ H ₄ F ₂ Br ₂	●		
		33093	421-46-5	Bromotrifluoropropane	C ₃ H ₄ F ₃ Br	●		
		33094	51584-26-0	Dibromofluoropropane	C ₃ H ₅ FBr ₂	●		
		33095	—	Bromodifluoropropane	C ₃ H ₅ F ₂ Br	●		
		33096	352-91-0	Bromofluoropropane	C ₃ H ₆ FBr	●		
		33097	74-97-5	Bromochloromethane	CH ₂ BrCl	●		
		33098	74-83-9	Methyl bromide	CH ₃ Br	●		

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						1	2	3
		33107	354-58-5	1,1,1-Trichloro-2,2,2 trifluoroethane	C ₂ Cl ₃ F ₃	●		
		33108	422-81-1	1,1,1,2,3,3,3-Heptachloro-2-fluoropropane	-	●		
		33109	3182-26-1	Hexachlorodifluoropropane	C ₃ Cl ₆ F ₂	●		
		33110	2354-06-5	Pentachlorotrifluoropropane	C ₃ F ₃ Cl ₅	●		
		33111	-	1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane	C ₃ Cl ₄ F ₄	●		
		33112	76-17-5	1,2,3-Trichloropentafluoropropane	C ₃ Cl ₃ F ₅	●		
		33113	-	1,1,2-Trichloropentafluoropropane	-	●		
		33114	-	1,1,3-Trichloropentafluoropropane	-	●		
		33115	4259-43-2	1,1,1-Trichloropentafluoropropane	C ₃ Cl ₃ F ₅	●		
		33116	74-96-4	Bromoethane (ethyl bromide)	C ₂ H ₅ Br	●		
		33117	106-94-5	1-Bromopropane (n-propyl bromide)	C ₃ H ₇ Br	●		
		33118	2314-97-8	Trifluoroiodomethane (trifluoromethyl iodide)	CF ₃ I	●		
		33119	74-87-3	Chloromethane (methyl chloride)	CH ₃ Cl	●		
		33120	-	Tribromodifluoroethane	-	●		
		33121	-	Tribromofluoroethane	-	●		
		33122	420-47-3	Bromodifluoroethane	C ₂ H ₃ BrF ₂	●		
		33123	-	Hexabromofluoropropane	-	●		
		33124	-	Pentabromodifluoropropane	-	●		
		33125	-	Tetrabromotrifluoropropane	-	●		
		33126	-	Tribromotetrafluoropropane	-	●		
		33127	2252-78-10	Bromohexafluoropropane	-	●		
		33128	-	Pentabromofluoropropane	-	●		
		33129	-	Tetrabromodifluoropropane	-	●		
		33130	-	Tribromotrifluoropropane	-	●		
		33131	-	Dibromotetrafluoropropane	-	●		
		33132	-	Tetrabromofluoropropane	-	●		
		33133	431-21-0	Dibromotrifluoropropane	C ₃ H ₃ Br ₂ F ₃	●		
		33134	-	Bromodifluoropropane	-	●		
		33135	1871-72-3	Bromofluoropropane	-	●		
		33136	354-14-3	1,1,2,2-Tetrachloro-1-fluoroethane	C ₂ HCl ₄ F	●		
		33137	41834-16-6	Trichlorodifluoroethane	-	●		
		33138	354-15-4	1,1,2-Trichloro-1,2-difluoroethane	C ₂ HCl ₃ F ₂	●		
		33139	354-12-1	1,1,1-Trichloro-2,2-difluoroethane	C ₂ HCl ₃ F ₂	●		
		33140	34077-87-7	Dichlorotrifluoroethane	C ₂ HCl ₂ F ₃	●		
		33141	306-83-2	1,1-Dichloro-2,2,2-trifluoroethane	C ₂ HCl ₂ F ₃	●		
		33142	354-23-4	1,2-Dichloro-1,1,2-trifluoroethane	C ₂ HCl ₂ F ₃	●		
		33143	90454-18-5	1,2-Dichloro-1,1,2-trifluoroethane	-	●		
		33144	63938-10-3	Chlorotetrafluoroethane	C ₂ HClF ₄	●		
		33145	359-28-4	1,1,2-Trichloro-2-fluoroethane	C ₂ H ₂ Cl ₃ F	●		
		33146	811-95-0	1,1,2-Trichloro-1-fluoroethane	C ₂ H ₂ Cl ₃ F	●		
		33147	2366-36-1	1,1,1-Trichloro-2-fluoroethane	C ₂ H ₂ Cl ₃ F	●		
		33148	25915-78-0	Dichlorodifluoroethane	-	●		
		33149	431-06-1	1,2-Dichloro-1,2-difluoroethane	C ₂ H ₂ Cl ₂ F ₂	●		
		33150	471-43-2	1,1-Dichloro-2,2-difluoroethane	C ₂ H ₂ Cl ₂ F ₂	●		
		33151	1842-05-3	1,1-Dichloro-1,2-difluoroethane	C ₂ H ₂ Cl ₂ F ₂	●		
		33152	1330-45-6	Chlorotrifluoroethane	C ₂ H ₂ ClF ₃	●		
		33153	431-07-2	Chlorotrifluoroethane	C ₂ H ₂ ClF ₃	●		
		33154	1330-45-6	1-Chloro-1,2,2-trifluoroethane	C ₂ H ₂ ClF ₃	●		
		33155	421-04-5	1-Chloro-1,1,2-trifluoroethane	C ₂ H ₂ ClF ₃	●		
		33156	25167-88-8	Dichlorofluoroethane	-	●		
		33157	430-53-5	1,1-Dichloro-2-fluoroethane	C ₂ H ₃ Cl ₂ F	●		
		33158	338-65-8	2-Chloro-1,1-Difluoroethane	C ₂ H ₃ ClF ₂	●		
		33159	338-64-7	1-Chloro-1,2-difluoroethane	C ₂ H ₃ ClF ₂	●		
		33160	110587-14-9	Chlorofluoroethane	-	●		

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						1	2	3
		33161	762-50-5	1-Chloro-2-fluoroethane	C ₂ H ₄ ClF	●		
		33162	29470-97-8	Hexachlorofluoropropane	-	●		
		33163	422-26-4	1,1,1,2,2,3-Hexachloro-3-fluoropropane	-	●		
		33164	422-49-1	1,1,1,3,3-pentachloro-2,2-difluoropropane	C ₃ HCl ₃ F ₂	●		
		33165	422-30-0	1,2,2,3,3-pentachloro-1,1-difluoropropane	C ₃ HCl ₃ F ₂	●		
		33166	422-52-6	1,1,3,3-Tetrachloro-1,2,2-trifluoropropane	-	●		
		33167	422-50-4	1,1,1,3-Tetrachloro-2,2,3-trifluoropropane	-	●		
		33168	422-54-8	1,3,3-Trichloro-1,1,2,2-tetrafluoropropane	C ₃ HCl ₃ F ₄	●		
		33169	422-53-7	1,1,3-Trichloro-1,2,2,3-tetrafluoropropane	-	●		
		33170	422-51-7	1,1,1-Trichloro-2,2,3,3-tetrafluoropropane	-	●		
		33171	127564-92-5	Dichloropentafluoropropane	C ₃ HCl ₂ F ₅	●		
		33172	128903-21-9	2,2-Dichloro-1,1,1,3,3-pentafluoropropane	C ₃ HCl ₂ F ₅	●		
		33173	422-48-0	2,3-Dichloro-1,1,1,2,3-pentafluoropropane	C ₃ HCl ₂ F ₅	●		
		33174	422-44-6	1,2-Dichloro-1,1,2,3,3-pentafluoropropane	C ₃ HCl ₂ F ₅	●		
		33175	13474-88-9	1,1-Dichloro-1,2,2,3,3-pentafluoropropane	C ₃ HCl ₂ F ₅	●		
		33176	136013-79-1	1,3-Dichloro-1,1,2,3,3-pentafluoropropane	C ₃ HCl ₂ F ₅	●		
		33177	111512-56-2	1,1-Dichloro-1,2,3,3,3-pentafluoropropane	C ₃ HCl ₂ F ₅	●		
		33178	431-87-8	2-Chloro-1,1,1,3,3,3-hexafluoro-propane	C ₃ HClF ₆	●		
		33179	421-94-3	1,1,1,2,3-pentachloro-2-fluoro-propane	-	●		
		33180	134237-39-1	Tetrachlorodifluoropropane	C ₃ H ₂ Cl ₄ F ₂	●		
		33181	460-89-9	1,1,1,3-Tetrachloro-3,3-difluoropropane	-	●		
		33182	7125-83-9	1,1,1-Trichloro-3,3,3-trifluoropropane	-	●		
		33183	425-94-5	1,2-Dichloro-1,2,3,3-tetrafluoropropane	-	●		
		33184	460-92-4	1-Chloro-1,1,3,3,3-pentafluoropropane	C ₃ H ₂ ClF ₅	●		
		33185	666-27-3	1,1,2,3-Tetrachloro-1-fluoropropane	-	●		
		33186	460-63-9	1,3,3,Trichloro-1,1-difluoropropane	-	●		
		33187	7125-99-7	1,1-Dichloro-1,2,2-trifluoropropane	-	●		
		33188	338-75-0	2,3-Dichloro-1,1,1-trifluoropropane	C ₃ H ₃ Cl ₂ F ₃	●		
		33189	460-69-5	3,3-Dichloro-1,1,1-trifluoropropane	C ₃ H ₃ Cl ₂ F ₃	●		
		33190	679-85-6	3-Chloro-1,1,2,2-tetrafluoropropane	-	●		
		33191	421-75-0	1-Chloro-1,1,2,2-tetrafluoropropane	-	●		
		33192	818-99-5	1,1,3-Trichloro-1-fluoropropane	-	●		
		33193	421-41-0	1,1,2-Trichloro-1-fluoropropane	-	●		
		33194	819-00-1	1,3-Dichloro-1,1-difluoropropane	C ₃ H ₄ Cl ₂ F ₂	●		
		33195	460-35-5	3-Chloro-1,1,1-trifluoropropane	C ₃ H ₄ ClF ₃	●		
		33196	7799-56-6	1,1-Dichloro-1-fluoropropane	C ₃ H ₅ Cl ₂ F	●		
		33197	420-97-3	1,2-Dichloro-2-fluoro-propane	C ₃ H ₅ Cl ₂ F	●		
		33198	420-99-5	1-Chloro-2,2-difluoropropane	C ₃ H ₅ ClF ₂	●		
		33199	102738-79-4	2-Chloro-1,3-difluoropropane	-	●		
		33200	421-02-03	1-Chloro-1,1-difluoropropane	-	●		
		33201	420-44-0	2-Chloro-2-fluoropropane	-	●		
		33202	430-55-7	1-Chloro-1-fluoropropane	-	●		
		33024	75-43-4	HCFC-21	CHFCl ₂	●		
		33025	75-45-6	HCFC-22	CHF ₂ Cl	●		

[ANNEX 10]

LIST OF CONTAINED CHEMICAL SUBSTANCES (THE 5TH EDIT) FDK Classification

1: Unconditionally Banned

2: Conditionally Banned

3: Monitored

FDK Substance group No.	Substance group	FDK Substance No.	CAS №	Substance	Chemical formula	FDK Classification		
						1	2	3
		33026	593-70-4	HCFC-31	CH ₂ FCl	●		
		33027	354-11-0	HCFC-121	C ₂ HFCl ₄	●		
		33104	134237-32-4	HCFC-121		●		
		33028	41834-16-6	HCFC-122	C ₂ HF ₂ Cl ₃	●		
		33029	306-83-2	HCFC-123	C ₂ HF ₃ Cl ₂	●		
		33030	354-25-6	HCFC-124	C ₂ HF ₄ Cl	●		
		33105	2837-89-0	HCFC-124	CHClFCF ₃	●		
		33031	27154-33-2	HCFC-131	C ₂ H ₂ FCl ₃	●		
		33106	134237-34-6	HCFC-131		●		
		33032	25915-78-0	HCFC-132	C ₂ H ₂ F ₂ Cl ₂	●		
		33033	75-88-7	HCFC-133	C ₂ H ₂ F ₃ Cl	●		
		33034	430-57-9	HCFC-141	C ₂ H ₃ FCl ₂	●		
		33035	1717-00-6	HCFC-141b	CH ₃ CFCl ₂	●		
		33036	25497-29-4	HCFC-142	C ₂ H ₃ F ₂ Cl	●		
		33037	75-68-3	HCFC-142b	CH ₃ CF ₂ Cl	●		
		33038	1615-75-4	HCFC-151	C ₂ H ₄ FCl	●		
		33039	134237-35-7	HCFC-221	C ₃ HFCl ₆	●		
		33040	134237-36-8	HCFC-222	C ₃ HF ₂ Cl ₅	●		
		33041	134237-37-9	HCFC-223	C ₃ HF ₃ Cl ₄	●		
		33042	134237-38-0	HCFC-224	C ₂ HF ₄ Cl ₃	●		
		33043	431-86-7	HCFC-225	C ₃ HF ₅ Cl ₂	●		
		33044	422-56-0	HCFC-225ca	CF ₃ CF ₂ CHCl ₂	●		
		33045	507-55-1	HCFC-225cb	CF ₂ ClCF ₂ CHClF	●		
		33046	134308-72-8	HCFC-226	C ₃ HF ₆ Cl	●		
		33047	134190-48-0	HCFC-231	C ₃ H ₂ FCl ₅	●		
		33048	134237-39-1	HCFC-232	C ₃ H ₂ F ₂ Cl ₄	●		
		33049	134237-40-4	HCFC-233	C ₃ H ₂ F ₃ Cl ₃	●		
		33050	127564-83-4	HCFC-234	C ₃ H ₂ F ₄ Cl ₂	●		
		33051	134237-41-5	HCFC-235	C ₃ H ₂ F ₅ Cl	●		
		33052	134190-49-1	HCFC-241	C ₃ H ₃ FCl ₄	●		
		33053	134237-42-6	HCFC-242	C ₃ H ₃ F ₂ Cl ₃	●		
		33054	134237-43-7	HCFC-243	C ₃ H ₃ F ₃ Cl ₂	●		
		33055	134190-50-4	HCFC-244	C ₃ H ₃ F ₄ Cl	●		
		33056	134190-51-5	HCFC-251	C ₃ H ₄ FCl ₃	●		
		33057	134190-52-6	HCFC-252	C ₃ H ₄ F ₂ Cl ₂	●		
		33058	134237-44-8	HCFC-253	C ₃ H ₄ F ₃ Cl	●		
		33059	134237-45-9	HCFC-261	C ₃ H ₅ FCl ₂	●		
		33060	134190-53-7	HCFC-262	C ₃ H ₅ F ₂ Cl	●		
		33061	134190-54-8	HCFC-271	C ₃ H ₆ FCl	●		
25	Radioactive substances	35001		Americium	Am	●		
		35002		Uranium	U	●		
		35003		Thorium	Th	●		
		35004		Plutonium	Pu	●		
		35005		Radon	Rn	●		
		35006	7440-46-2	Cesium	Cs	●		
		35007	7440-24-6	Strontium	Sr	●		
		35008	14596-10-2	Americium-241	Am-241	●		
		35009	10045-97-3	Cesium-137	Cs-137	●		
		35010	10098-97-2	Strontium-90	Sr-90	●		
		35999	—	Other radioactive substances	-	●		
26	Antimony and its compounds	36001	7440-36-0	Antimony	Sb			●
		36009	15432-85-6	Sodium antimonate	Na ₃ O ₄ Sb			●
		36031	1314-60-9	Antimony pentoxide	Sb ₂ O ₅			●

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FDK Substance group No.	Substance group	FDK Substance No.	CAS №	Substance	Chemical formula	FDK Classification		
						1	2	3
		36035	10025-91-9	Antimony trichloride	SbCl ₃			●
		36036	1309-64-4	Antimony trioxide	Sb ₂ O ₃			●
		36999	—	Other antimony compounds	-			●
27	Bismuth and its compounds	37001	7440-69-9	Bismuth	Bi			●
		37002	1304-76-3	Bismuth trioxide	Bi ₂ O ₃			●
		37003	10361-44-1	Bismuth nitrate	BiN ₃ O ₉			●
		37999	—	Other bismuth compounds	-			●
28	Chromium and its compounds (The hexavalent chromium is excluded)	38001	7440-47-3	Chromium	Cr			●
		38999	—	Other chromium compounds	-			●
29	Cobalt and its compounds	39001	7440-48-4	Cobalt	Co			●
		39004	7646-79-9	Cobalt chloride	CoCl ₂			●
		39999	—	Other cobalt compounds	-			●
30	Tin and its compounds	40001	7440-31-5	Tin	Sn			●
		40999	—	Other tin compounds	-			●
31	Selenium and its compounds	41001	7782-49-2	Selenium	Se			●
		41072	7783-00-8	Selenous acid	H ₂ SeO ₃			●
		41085	7446-08-4	Selenium dioxide	SeO ₂			●
		41999	—	Other selenium compounds	-			●
32	Tellurium and its compounds	42001	13494-80-9	Tellurium	Te			●
		42999	—	Other tellurium compounds	-			●
33	Thallium and its compounds	43001	2440-28-0	Thallium	Tl			●
		43999	—	Other thallium compounds	-			●
34	Zinc and its compounds (Water solubility)	44001	7440-66-6	Zinc	Zn			●
		44999	—	Other zinc compounds	-			●
35	Silver and its compounds	45001	7440-22-4	Silver	Ag			●
		45999	—	Other silver compounds	-			●
36	Copper and its compounds	46001	7440-50-8	Copper	Cu			●
		46999	—	Other copper compounds	-			●
37	Vanadium and its compounds	47001	7440-62-2	Vanadium	V			●
		47999	—	Other vanadium compounds	-			●
38	Barium and its compounds (Water solubility)	48001	7440-39-3	Barium	Ba			●
		48999	—	Other barium compounds	-			●
39	Manganese and its compounds	49001	7439-96-5	Manganese	Mn			●
		49999	—	Other manganese compounds	-			●
40	Molybdenum and its compounds	50001	7439-98-7	Molybdenum	Mo			●
		50999	—	Other molybdenum compounds	-			●
41	Lithium and its compounds	51001	7439-93-2	Lithium	Li			●
		51999	—	Other lithium compounds	-			●
43	Boron and its compounds	53035	10043-35-3	Boric acid	H ₃ BO ₃			●
		53068	1330-43-4	Sodium tetraborate	Na ₂ B ₄ O ₇			●
		53069	1303-96-4	Sodium tetraborate decahydrate	Na ₂ B ₄ O ₇ ·10H ₂ O			●
		53087	11113-50-1	Boric acid	BH ₃ O ₃			●
		53088	12179-04-3	Disodium tetraborate, anhydrous	B ₄ H ₁₀ Na ₂ O ₁₂			●
		53089	12267-73-1	Tetraboron disodium heptaoxide hydrate	B ₄ H ₁₄ Na ₂ O ₈ -12			●
		53999	-	Other boron compounds	-			●
44	Phthalates	54001	84-74-2	Dibutylphthalate	C ₁₆ H ₂₂ O ₄			●
		54002	117-81-7	Di(2-ethylhexyl)phthalate	C ₂₄ H ₃₈ O ₄			●
		54003	28553-12-0	Diisononyl phthalate	C ₂₄ H ₃₈ O ₄			●
		54004	26761-40-0	1,2-Benzenedicarboxylic acid diisodecyl ester	C ₂₈ H ₄₆ O ₄			●
		54005	85-68-7	Butyl benzyl phthalate	C ₁₉ H ₂₀ O ₄			●
		54006	117-84-0	Diocetylphthalate	(C ₆ H ₄)(COO(CH ₂) ₇ CH ₃) ₂			●

[ANNEX 10]

LIST OF CONTAINED CHEMICAL SUBSTANCES (THE 5TH EDIT) FDK Classification

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FDK Substance group No.	Substance group	FDK Substance No.	CAS №	Substance	Chemical formula	FDK Classification		
						1	2	3
		54007	68515-49-1	Diisodecyl phthalate (DIDP)	-			●
		54008	84-69-5	Diisobutyl phthalate (DIBP)	C ₁₆ H ₂₂ O ₄			●
		54009	68515-48-0	Diisononyl phthalate (DINP)	C ₂₆ H ₄₂ O ₄			●
		54999	—	Other phthalate	-			●
46	HFCs, PFCs, SF6	56001	431-89-0	1,1,1,2,3,3,3-heptafluoropropane	HFC-236cb			●
		56002	138495-42-8	1,1,1,2,3,4,4,5,5,5,-decafluoropentane	HFC-43-10mee			●
		56003	811-97-2	1,1,1,2-tetrafluoroethane	HFC-134a			●
		56004	690-39-1	1,1,1,3,3,3-hexafluoropropane	HFC-236fa			●
		56005	420-46-2	1,1,1-trifluoroethane	HFC-143a			●
		56006	679-86-7	1,1,2,2,3-pentafluoropropane	HFC-245ca			●
		56007	359-35-3	1,1,2,2-tetrafluoroethane	HFC-134			●
		56008	430-66-0	1,1,2-trifluoroethane	HFC-143a			●
		56009	75-37-6	1,1-difluoroethane	HFC-152a			●
		56010	75-10-5	Difluoromethane	HFC-32			●
		56011	75-46-7	Trifluoromethane	HFC-23			●
		56012	593-53-3	Fluoromethane	HFC-41			●
		56013	354-33-6	Pentafluoroethane	HFC-125			●
		56014	75-73-0	Perfluoromethane	PFC-14			●
		56015	76-16-4	Perfluoroethane	PFC-116			●
		56016	76-19-7	Perfluoropropane	PFC-218			●
		56017	355-25-9	Perfluorobutane	PFC-31-10			●
		56018	115-25-3	Perfluorocyclobutane	PFC-c318			●
		56019	678-26-2	Perfluoropentane	PFC-41-12			●
		56020	355-42-0	Perfluorohexanes	PFC-51-14			●
56021	2551-62-4	Sulphur hexafluoride	SF6			●		
56025	677-56-5	1,1,1,2,2,3-Hexafluoro-propane	HFC-236cb			●		
56026	431-63-0	1,1,1,2,3,3-Hexafluoropropane	HFC-236ea			●		
56027	460-73-1	1,1,1,3,3-Pentafluoropropane	HFC-245fa			●		
56028	406-58-6	1,1,1,3,3-Pentafluorobutane	HFC-365mfc			●		
47	Other surveillance substances	31014	1910-42-5	1,1'-Dimethyl-4,4'-bipyridinium Dichloride	C ₁₂ H ₁₄ Cl ₂ N ₂			●
		57003	1806-26-4	4-Octylphenol	CH ₃ (CH ₂) ₇ C ₆ H ₄ OH			●
		57009	103-23-1	Bis(2-ethylhexyl) Adipate	[-CH ₂ CH ₂ COOCH ₂ CH(C ₂ H ₅)(CH ₂) ₃ CH ₃] ₂			●
		57038	115-86-6	Triphenylphosphate	(C ₆ H ₅ O) ₃ PO			●
		57045	80-05-7	Bisphenol-A	C ₁₅ H ₁₆ O ₂			●
		57058	119-61-9	Benzophenone	(C ₆ H ₅)CO(C ₆ H ₅)			●
		57067	—	Mineral fiber which diameter is under 3 μm	-			●
		57068	7439-95-4	Magnesium	Mg			●
		57069	—	Other magnesium compounds	-			●
		57070	7791-03-9	Lithium perchlorate				●
		57071	—	Other perchlorate compounds	-			●
		57072	EC 650-017-00-8	Refractory Ceramic Fibers, Aluminiumsilicate	-			●
		57073	EC 650-017-00-8	Refractory Ceramic Fibers, Aluminiumsilicate	-			●
		57074	115-96-8	Tris (2-chloroethyl) phosphate(TCEP)	-			●
		57075	120-12-7	Anthracene	-			●
		57076	81-15-2	5-tert-butyl-2,4,6-trinitro-m-xylene	-			●
		57077	90640-80-5	Anthracene oil	-			●
		57078	91995-17-4	Anthracene oil, anthracene paste, distn.lights	-			●

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FDK Substance group No.	Substance group	FDK Substance No.	CAS №	Substance	Chemical formula	FDK Classification		
						1	2	3
		57079	91995-15-2	Anthracene oil, anthracene paste, anthracene fraction	-			●
		57080	90640-82-7	Anthracene oil, anthracene-low	-			●
		57081	90640-81-6	Anthracene oil, anthracene paste	-			●
		57082	65996-93-2	Pich, coal tar, hight temp.	-			●
		57083	121-14-2	2,4-Dinitrotoluene	-			●
48	Gold and its compounds	58001	7440-57-5	Gold	Au			●
		58999	-	Other gold compounds	-			●
49	Palladium and its compounds	59001	7440-05-3	Palladium				●
		59999	-	Other palladium compounds	-			●
50	Brominated flame retardants	32048	21850-44-2	Tetrabromobisphenol-A-bis-(2,3-dibromopropylether)				●
		57036	79-94-7	3,5,3',5'-Tetrabromo-bisphenol A	C ₁₅ H ₁₂ Br ₄ O ₂			●
		60001	69882-11-7	Poly(2,6-dibromo-phenylene oxide)	(C ₆ H ₂ Br ₂ O) _x			●
		60002	58965-66-5	Tetra-decabromo-diphenoxy-benzene	C ₁₈ Br ₁₄ O ₂			●
		60003	37853-59-1	1,2-Bis(2,4,6-tribromo-phenoxy)ethane	C ₁₄ H ₈ Br ₆ O ₂			●
		60004	30496-13-0	TBBA, unspecified	-			●
		60005	40039-93-8	TBBA-epichlorhydrin oligomer	(C ₁₅ H ₁₂ Br ₄ O ₂ .C ₃ H ₅ ClO) _x			●
		60006	70682-74-5	TBBA-TBBA-diglycidyl-ether oligomer				●
		60007	28906-13-0	TBBA carbonate oligomer	(C ₁₅ H ₁₂ Br ₄ O ₂ .CCl ₂ O) _x			●
		60008	94334-64-2	TBBA carbonate oligomer, phenoxy end capped	(C ₇ H ₅ O ₂)(C ₁₆ H ₁₀ Br ₄ O ₃) _x (C ₆ H ₅ O)			●
		60009	71342-77-3	TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	(C ₇ H ₂ Br ₃ O ₃)(C ₁₆ H ₁₀ Br ₄ O ₃) _n (C ₆ H ₂ Br ₃)			●
		60010	32844-27-2	TBBA-bisphenol A-phosgene polymer	(C ₁₅ H ₁₆ O ₂ .C ₁₅ H ₁₂ Br ₄ O ₂ .CCl ₂ O) _x			●
		60011	139638-58-7	Brominated epoxy resin end-capped with tribromophenol				●
		60012	135229-48-0	Brominated epoxy resin end-capped with tribromophenol				●
		60013	21850-44-2	TBBA-(2,3-dibromo-propyl-ether)	C ₂₁ H ₂₀ Br ₈ O ₂			●
		60014	4162-45-2	TBBA bis-(2-hydroxy-ethyl-ether)	C ₁₉ H ₂₀ Br ₄ O ₄			●
		60015	25327-89-3	TBBA-bis-(allyl-ether)	C ₂₁ H ₂₀ Br ₄ O ₂			●
		60016	37853-61-5	TBBA-dimethyl-ether	C ₁₇ H ₁₆ Br ₄ O ₂			●
		60017	39635-79-5	Tetrabromo-bisphenol S	C ₁₂ H ₆ Br ₄ O ₄ S			●
		60018	42757-55-1	TBBS-bis-(2,3-dibromo-propyl-ether)	C ₁₈ H ₁₄ Br ₈ O ₄ S			●
		60019	615-58-7	2,4-Dibromo-phenol	C ₆ H ₄ Br ₂ O			●
		60020	118-79-6	2,4,6-tribromo-phenol	C ₆ H ₃ Br ₃ O			●
		60021	608-71-9	Pentabromo-phenol	C ₆ HBr ₅ O			●
		60022	3278-89-5	2,4,6-Tribromo-phenyl-alltl-ether	C ₉ H ₇ Br ₃ O			●
		60023	26762-91-4	Tribromo-phenyl-allyl-ether,unspecified	C ₉ H ₇ Br ₃ O			●
		60024	3194-55-6	Hexabromo-cyclo-dodecane (HBCD),unspecified	C ₁₂ H ₁₈ Br ₆			●
		60025	31454-48-5	Tetrabromo-chyclo-octane	C ₈ H ₁₂ Br ₄			●
		60026	3322-93-8	1,2-Dibromo-4-(1,2 dibromo-methyl)-cyclo-hexane	C ₈ H ₁₂ Br ₄			●
		60027	25357-79-3	TBPA Na salt	C ₈ Br ₄ O ₄ Na ₂			●
		60028	632-79-1	Tetrabromo phthalic anhydride	C ₈ Br ₄ O ₃			●
		60029	55481-60-2	Bis(methyl)tetrabromo-phthalate	C ₁₀ H ₆ Br ₄ O ₄			●
		60030	26040-51-7	Bis(2-ethylhexyl)tetrabromo-phthalate	C ₂₄ H ₃₄ Br ₄ O ₄			●
60031	20566-35-2	2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)ethyl-TBP	C ₁₅ H ₁₆ Br ₄ O ₇			●		

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						1	2	3
		60032	75790-69-1	TBPA, glycol-and propylene-oxide				●
		60033	32588-76-4	N,N'-Ethylene -bis-(tetrabromo-phthalimide)	C ₁₈ H ₄ Br ₈ N ₂ O ₄			●
		60034	52907-07-0	Ethylene-bis(8,5,6-dibromo-norbornane-2,3-dicarboximide)	C ₂₀ H ₂₀ Br ₄ N ₂ O ₄			●
		60035	3234-02-4	2,3-Dibromo-2-butene-1,4-diol	C ₄ H ₆ Br ₂ O ₂			●
		60036	3296-90-0	Dibromo-neopentyl-glycol	C ₅ H ₁₀ Br ₂ O ₂			●
		60037	96-13-9	Dibromo-propanol	C ₃ H ₆ Br ₂ O			●
		60038	36483-57-5	Tribromo-neopentyl-alcohol	C ₅ H ₉ Br ₃ O			●
		60039	57137-10-7	Poly tribromo-styrene				●
		60040	61368-34-1	Tribromo-styrene	C ₈ H ₅ Br ₃			●
		60041	171091-06-8	Dibromo-styrene grafted PP				●
		60042	31780-26-4	Poly-dibromo-styrene	C ₈ H ₆ Br ₂			●
		60043	68955-41-9	Bromo-/Chloro-paraffins				●
		60044	82600-56-4	Bromo-/Chloro-alpha-olefin				●
		60045	593-60-2	Vinylbromide	C ₂ H ₃ Br			●
		60046	52434-90-9	Tris-(2,3-dibromo-propyl)-isocyanurate	C ₁₂ H ₁₅ Br ₆ N ₃ O ₃			●
		60047	49690-63-3	Tris(2,4-Dibromo-phenyl) phosphate	C ₁₈ H ₉ Br ₆ O ₄ P			●
		60048	19186-97-1	Tris(tribromo-neopentyl) phosphate	C ₁₅ H ₂₄ Br ₉ O ₄ P			●
		60049	125997-20-8	Chlorinated and brominated phosphate ester	-			●
		60050	87-83-2	Pentabromo-toluene	C ₇ H ₃ Br ₅			●
		60051	38521-51-6	Pentabromo-benzyl bromide	C ₇ H ₂ Br ₆			●
		60052	68441-46-3	1,3-Butadiene homopolymer, brominated	-			●
		60053	59447-55-1	Pentabromo-benzyl-acrylate, monomer	C ₁₀ H ₃ Br ₅ O ₂			●
		60054	59447-57-3	Pentabromo-benzyl-acrylate, polymer	(C ₁₀ H ₃ Br ₅ O ₂) _x			●
		60055	61262-53-1	Decabromo-diphenyl-ethane	C ₁₄ H ₄ Br ₁₀ O ₂			●
		60056	59789-51-4	Tribromo-bisphenyl-maleinimide	C ₁₀ H ₄ Br ₃ NO ₂			●
		60057	59789-51-4	Brominated trimethylphenyl-lindane	-			●
		60058	84852-53-9	1,2-Bis(pentabromophenyl)ethan				●
		60059	155613-93-7	Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)	-			●
		60060	-	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	-			●
		60061	-	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	-			●
		60062	-	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]	-			●
		60063	-	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls) in combination with antimony compounds]	-			●

[ANNEX 10]

LIST OF CONTAINED CHEMICAL SUBSTANCES (THE 5TH EDIT) FDK Classification

1: Unconditionally Banned

2: Conditionally Banned

3: Monitored

FDK Substance group No.	Substance group	FDK Substance No.	CAS №	Substance	Chemical formula	FDK Classification		
						1	2	3
		60064	-	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]				●
		60065	-	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organic phosphorus compounds]				●
		60066	25637-99-4	Hexabromocyclododecane (HBCDD)	C ₁₂ H ₁₈ Br ₆			●
		60067	134237-50-6	α -hexabromocyclododecane	-			●
		60068	134237-51-7	β -hexabromocyclododecane	-			●
		60069	134237-52-8	γ -hexabromocyclododecane	-			●
		60999	—	Other Brominated Flame Retardants	-			●

[ANNEX11]

RELATED LAWS AND REGULATIONS OF CONTAINED CHEMICAL SUBSTANCES

FDK substance group No.	Substance group	FDK Classification level	CAS №	Banned substance	Relating the main regulations system etc.
1	Cadmium and its compounds	conditionally banned			Statutory Order 1199 of December 23,1992 on the prohibition of sale,importation,and manufacture of cadmium-containing products(Denmark) , 2002/95/EC(EU/RoHS) , 2006/66/EC , Regulations on heavy metals in packaging(US)
2	Lead and its compounds	conditionally banned			2000/53/EC(EU/ELV) , 2002/95/EC(EU/RoHS) , 2006/66/EC , Regulations on heavy metals in packaging(US)
		unconditionally banned	78-00-2	Tetraethyl Lead	Poisonous and Deleterious Substances Control Law (Japan)
			75-74-1	Tetramethyl Lead	
3	Mercury and its compounds	conditionally banned			2000/53/EC(EU/ELV) , 2002/95/EC(EU/RoHS) , 2006/66/EC , Regulations on heavy metals in packaging(US)
4	Chromium VI and its compound	conditionally banned			2000/53/EC(EU/ELV) , 2002/95/EC(EU/RoHS) , Regulations on heavy metals in packaging(US)
5	Arsenic and its compounds	conditionally banned			76/769/EEC , 89/677/EEC , Law Concerning Reporting, etc. of Releases to the Environment of Specific chemical Substances and Promoting Improvements in their Management(PRTR Law) (Japan)
7	Nickel and the compound The alloy (The example: stainless steel) is excluded	conditionally banned			76/769/EEC , PRTR Law(Japan)
8	Specific, organic tin compound	unconditionally banned	56-35-9	Bis (tributyl tin) oxide	The Law concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (Japan)
		unconditionally banned		TBT's,TPT's	The Law concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (Japan)
9	Organotin compound	unconditionally banned	13121-70-5	Tricyclohexyltin hydroxide	Export Trade Control Ordinance (Japan)
10	Organophosphorus compound	unconditionally banned	13171-21-6	Dimethyl-(diethylamido-1-chlorocrotonyl) phosphate	Poisonous and Deleterious Substances Control Law (Japan)
			56-38-2	Diethyl-paranitrophenyl-thiophosphate	
			8022-00-2	Diethyl-paranitrophenyl-thiophosphate	
			298-00-0	Dimethylparanitrophenyl thiophosphate	
			107-49-3	Tetraethyl Pyrophosphate	
11	PCBs , PCTs	unconditionally banned			76/769/EEC , The Law concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (Japan)
12	Polychlorinated Naphthalenes (Cl \geq 3)	unconditionally banned			The Law concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (Japan)
13	Chlorinated paraffine (C10-13)	unconditionally banned	85535-84-8	Chlorinated paraffine (C10-13)	76/769/EEC(+2002/45/EC) , Dioxin Ordinance(Germany)
14	Polybrominated biphenyl (PBBs) , Polybrominated diphenyl ethers (PBDEs)	conditionally banned		(PBBs) (PBDEs)	2002/95/EC(EU/RoHS) , Dioxin Ordinance(Germany)
15	Asbestos types	unconditionally banned			76/769/EEC(+91/659/EEC) , The Law on Industrial Safety and Hygiene (Japan)
16	Azo compounds (Amines specified by EU directives, Chemical Examination Law (Japan), etc.)	unconditionally banned	15017-02-4	N,N'-ditolyl-p-phenylenediamine	76/769/EEC(+2002/61/EC, +2003/3/EC) , Consumer Goods Ordinance(Germany)
			91-59-8	2-naphthylamine	The Law on Industrial Safety and Hygiene(Japan)
			92-67-1	4-aminodiphenyl	
			92-93-3	4-nitorodiphenyl	
		92-87-5	Benzidine		
		conditionally banned			76/769/EEC(+2002/61/EC, +2003/3/EC) , Consumer Goods Ordinance(Germany)
18	Chlordane	unconditionally banned			The Law concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (Japan)
19	Fluoroacetic Acid	unconditionally banned			Poisonous and Deleterious Substances Control Law (Japan)
21, 22	Other unconditional prohibition substances	unconditionally banned			The Law concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (Japan) , Poisonous and Deleterious Substances Control Law (Japan) , Export Trade Control Ordinance(Japan) , TSCA(USA)
22	Other conditional prohibition substances	conditionally banned	9002-86-2	Poly vinyl chloride(PVC)	As an FDK's self-regulatory substance
			50-00-0	Formaldehyde	PRTR Law (Japan)
				PFOS	76/769/EEC(+2006/122/EC)
23	Ozone-depleting substances (Substances cited by the Montreal Protocol)	unconditionally banned		A Group I , II / B Group I , II , III C Group I , II , III / E	Montreal Protocol , The Law concerning the protection of the ozone layer through the control of specified substances and other measures(Japan)
25	Radioactive substances	unconditionally banned			Law for the Regulation of Nuclear Source Material,Nuclear Fuel Material,and Reactors,1986(Japan)