Manual for Survey of Chemical Substances Contained in Parts and Materials

July 2003

Japan Green Procurement Survey Standardization Initiative

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Contents

1. Purpose

The purpose of this manual is to establish the guidelines for the survey of chemical substances contained based on the guidelines set by the Green Procurement Survey Standardization Initiative.

2. Survey Scope

The survey covers electrical and electronic devices and their component parts, materials, and accessories. Packaging materials are excluded in principle, but surveys may be required according to the needs of the surveying company. However, packaging materials that the surveyed company uses for transporting and protecting products sold to the surveying company shall be excluded.

3. Survey Items

(1) Basic Information Survey (Chemical Substances)

(a) Reference Number

This number is used to manage each survey file at the surveying company, and you do not need to fill this in, in principle. However, please do so when instructed by the surveying company.

(b)Date of Data Entry

The surveying company enters the date the survey is requested. Do not enter or change this date.

(c) Surveying Company

This is the information about the surveying company. The column boxes 1 to 3 are used as set by the surveying company. Do not make entries or changes here.

(d) Response Date

Enter the date you will send in the survey.

(e) Surveyed Company

Enter your company name, DUNS number, address, division, name, contact name, telephone number, fax number, and email address. If you are a trading company, enter your information rather than the manufacturer information. Fill out columns 4 to 6 based on the instructions of the requesting company. Otherwise, do not make entries or changes here.

Note: The DUNS number is a unique nine-digit identification code assigned by the Dun & Bradstreet Corporation. Leave it blank if you do not know your DUNS number.

(f) Parts Number (used at surveying company), Parts Name, and Surveying Company Columns 1 to 3

The part number and name are established by the Surveying Company for the survey item. In principle, the Parts Number., Parts Name, and Surveying Company Columns 1 to 3 are completed by the Surveying Company, however follow any instructions from the surveying company.

(g) Manufacturer's Name, Parts Number (used at surveyed company), and Surveyed Company Columns 1 to 3

Enter the manufacturer name and part number for the survey item. Fill out surveyed company columns 1 to 3 based on the instructions of the surveying company. Otherwise, do not make entries or changes here.

(h) Data Version

Enter the administration number to specify the version of the data that you have prepared. You may leave it blank if you do not have this information.

(i) Revision Date

Enter the date on which you prepared your data or data version. This is different from the response date.

(j) Unit

Select the unit for the survey item when entering the amount contained from the pull-down menu. However, if the Surveying Company has set the unit already, follow the Surveying Company's instructions.

E.g. Choose “units” for parts, in principle, and for raw materials choose the most suitable unit from kilograms, square centimeters, square meters, cubic meters, meters, liters, or grams

(k) Parts Mass

Enter the total weight of the part per the unit set in (j) above, using the specified unit, “grams.”
E.g.
:If the survey unit is units → the weight in “grams” per one survey item unit
:If the survey unit is kilograms → the weight in “1000 grams” per kilogram

(l) Use of Ozone-depleting Substances in Manufacturing Process

Indicate whether or not ozone-layer depleting substances are used in the manufacturing process (see Attachment 4 Breakdown Substances). Indicate such substances even if they are used only in the manufacturing process and not in the product. However, this does not apply to substances used in ways that are not directly involved in the manufacturing process, including analysis, measurement, and product development.

(m) Presence of Substances Contained (cf. List A Substances Contained 0:No 1:Yes)

Enter “1” if even one substance group substance listed in the Survey Substance List is contained. Click the “input” button, and enter the substance information in the survey screen.
Enter “0” if none of substance group substances from the Survey Substance List are contained. This concludes the survey for this item.

(2) Chemical substances contained survey

This is the survey of the substances contained when “1” is entered for (m) Presence of Substances Contained in the Basic Information Survey. The survey uses the substance group unit based on Attachment 1 “Survey Substance List,” in principle. However, treat them individually when directed by the surveying company to complete the survey by substance unit.
Also treat them individually when requested to complete a survey for substances not on the Survey Substance List.

(a) Amount Contained

Enter the amount of chemical substance contained per the unit set in item (j) Unit, in the Basic Information Survey. Enter it in milligrams and round off after the second digit.
E.g. 2549mg → 2500mg
1.1456mg → 1.1mg
0.00214mg → 0.0021mg
0.1mg → 0.1mg

(b) Application

The application is the component of the part that contains the chemical substance subject to the survey. Enter the name of the application containing the substance for which you indicated the amount contained in (a).
For the name of the application, enter the name used in specifications and diagrams, your usual term, or the general name for the application. Furthermore, if the same substance is contained in multiple components, enter the main application where it is contained. In this case write “etc.” after the application.
Refer to Attachment 6 for examples of the components. Here are the specifics.
:When the item covered by the survey is a single electronic part or other part, the component is the item recorded on the diagram of the part concerned or the composition materials list.
E.g. 1) Ceramic material, internal electrode, or external electrode in a layered ceramic capacitor
E.g. 2) Lead wire, electrolytic solution, sealing material, or electrode foil in electrolytic capacitors
E.g. 3) Rubber contact points, springs, plastic covers for switches
:When the item covered by the survey is a machinery product or assembly electronic part, the usage part is the item recorded on the diagram of the part (product) concerned, or the parts list.
E.g. Layered ceramic capacitor, electrolytic capacitor, printed circuit board, or solder for assembly

(c) Purpose of Use

Enter the purpose of use for the substance contained, and other reasons for using that

substance, in simple terms.

E.g. 1) Stabilizer, plasticizer, coloring, flame retardant, rust preventative, solder ingredient, etc.

E.g. 2) Main ingredient, heat stability improvement, electrical characteristic improvement, mechanical characteristic improvement, etc.

E.g. 3) Impurity (when it is clear that it was not intentionally added), etc.

4. Notes for Survey of Chemical Substances Contained

(1) Concept of "Contained"

In principle, when the substance was intentionally added or is clearly present, the substance is considered to be contained regardless of the amount. When the substance was not intentionally added it is treated as an impurity. You are asked to record all possible impurities that can be measured. However, new analysis need not be carried out. Furthermore, any substance groups or substances contained that are not recorded shall be considered to be unintentionally added.

(2) Calculation of Amount Contained

Indicate the amount contained using the amount under control, or the theoretical, calculated, designed amount, or actually measured. When there is variation in the amount contained in a manufacturing lot, indicate the maximum amount, in principle.

Furthermore, the calculation of the amount contained in a part applies to the amount of chemical substance contained in the purchased components or materials that make up the part, as well as the amount contained in the manufacturing process. Retracing the purchased ones for the amount back to its supplier, determine this and enter the results.

(3) Amount Contained in Metals and their Compounds

(a) Metals include alloys.

(b) Nickel alloys are not subject to reporting (for example stainless steel)

(c) Magnesium is only subject to reporting in elemental metal form, and magnesium compounds do not need to be reported.

(d) For the amounts contained for metals and their alloys, enter the figure calculated for the amount of metal element.

Note 1: The conversion to metal element can be done by multiplying the amount of compound contained by the metal conversion coefficient. Refer to Attachment 2 for the main conversion coefficients. For the metal conversion coefficients for compounds that are not included on the Common Example Substance List (Attachment 2), calculate after checking the atomic weight using a chemical substance handbook.

E.g. 1: To find the amount of antimony contained for a component containing 100 mg of antimony trioxide (Sb_2O_3), multiply by the conversion coefficient 0.835.
Antimony amount = 100 mg $\times$ 0.835 = 83.5 mg $\rightarrow$ 84 mg (round off to two digits)

E.g. 2: To determine the amount of silver in 100 mg of lead free solder (Sn – 3.5 Ag), give the silver amount (3.5 mg) rather than the solder amount.

Note 2: Do not include oxidized film present in its regular form on metal surfaces.

(4) Chemical Substances used in Processes

Do not include any solvents or washing solutions used in the manufacturing process when they do not remain in the product due to their volatility.

However, in cases where substances from the Survey Substance List are intentionally used in the manufacturing process, be careful as many of them are non-volatile and may remain in the product.

Refer to item (7) regarding ozone depleting substances used in the manufacturing process.

Note: Regarding small amounts of un-reacted substances and remaining solvents that occur in processes with sufficient validity at the current technical level, these substances used in the process are not considered to be remaining in the product.

(5) For example, as many of the products below contain substances subject to survey, be sure to check them carefully.

:Lubricants such as grease used in parts that contain moving parts including bearings and levers

:Flame retardants in plastics, polyvinyl chloride or flame retardants in lead wire coating, and stabilizers
:Special metals (alloys) for the purpose of electrical lubricant for contact points
:Additives for rubber including belts, rollers, bushes, and tubes
:Paint for color coding, etc.

(6) When the same substance falls under more than one survey substance group, provide the amounts contained for each group.
e.g. If the article contains lead chromate, indicate the amount of lead and hexavalent chromium contained for both “Lead and its compounds” and “Chromium VI compounds.”

(7) Ozone-layer Depleting Substances
There are two types of ozone depleting substance surveys: the survey of substances used in the manufacturing process, and the survey of substances contained in the product. Respond to the survey of substances used in the manufacturing process by referring to section 3. (1) (I) Use of Ozone-depleting Substances in Manufacturing Process, and respond to the survey of substances contained in the product by referring to section 3. (2) (a) Amount Contained.

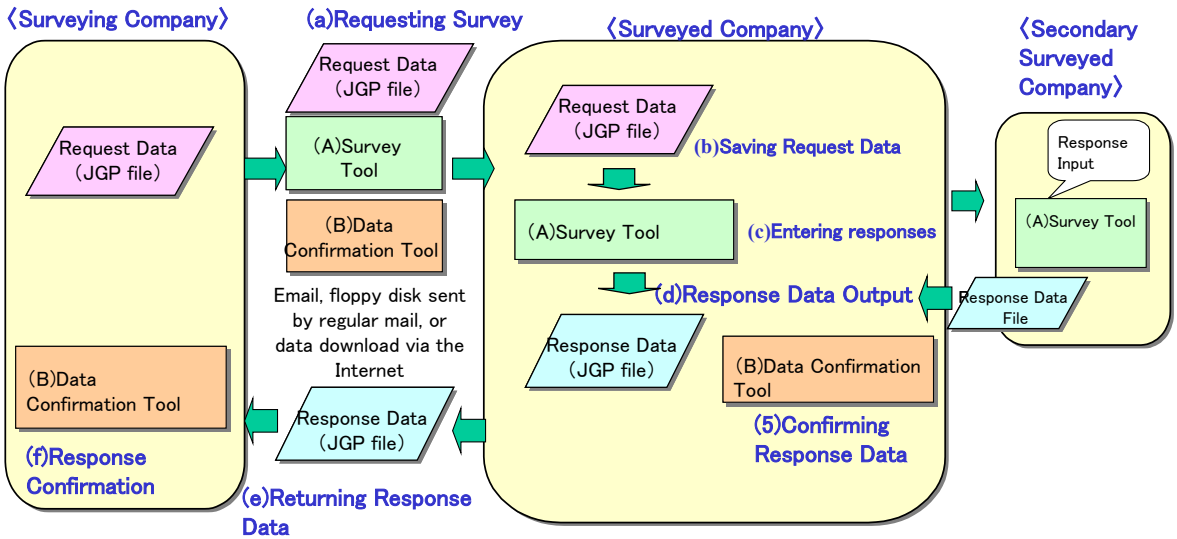
(8) Bromide Flame retardants (excluding PBBs and PBDEs)
For the amounts contained in bromide Flame retardants (excluding PBBs and PBDEs) provide either the CAS No. or ISO 1043-4 code based on Table 3. If entering the ISO 1043-4 code, the CAS No. need not be provided.

(9) Radioactive Substances
If a radioactive substance has been intentionally added, indicate the radiation level (in becquerels (bq)) rather than the amount.

5. Response Method and Survey Response Format

The Initiative has determined the survey format after establishing rules from the conditions for arranging all kinds of data on chemical substance amounts contained and the Basic Information Survey details at the time of survey response (see Attachment 7). Your responses must be converted to electronic data (JGP file), in principle, based on the survey format determined by the Initiative. Furthermore, the Initiative shall provide the free survey tool software for creating JGP files based on the survey format. You may also prepare your JGP files directly without using the survey tool.
For information on preparing response data using the survey tool, refer to Attachment 7 “Common Green Procurement Survey Tool Ver. 2.00 Operating Manual”

6. Operation Flow Diagram



Note: Preparing response data without using the survey tool is permitted.

Attachment 1. Survey Substance List (Level A)

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Level A

* The substance groups of Level A are those subject to currently enacted legislations that prohibit or restrict their use in products or marketing them or require reporting.

* Although the level A chemical substance groups are selected according to such laws and regulations, compliance of them is not to be assured.

No.	Substance Group	Classification	Substance	applicable laws and regulations
1	A05	Metal Compounds *1	Cadmium and Cadmium Compounds	Statutory order No.1199 of December 23, 1992 on the prohibition of sale, import and manufacture of cadmium--containing products, 76/769/EEC(+91/338/EEC), 91/157/EEC·93/86/EEC, 2000/53/EC(EU/ELV), 2002/95/EC(EU/RoHS), 94/62/EEC, Model Toxics in Packaging
2	A07		Hexavalent Chromium Compounds	2000/53/EC(EU/ELV), 2002/95/EC(EU/RoHS), 94/62/EEC, Model Toxics in Packaging
3	A09		Lead and Lead Compounds	76/769/EEC(+86/677/EEC), 91/157/EEC·93/86/EEC, 2000/53/EC(EU/ELV), 2002/95/EC(EU/RoHS), 94/62/EEC, Model Toxics in Packaging
4	A10		Mercury and Mercury Compounds	76/769/EEC, 91/157/EEC (+98/101/EC), 2000/53/EC(EU/ELV), 2002/95/EC(EU/RoHS), 94/62/EEC、Model Toxics in Packaging
5	A17		Tributyl Tin Oxide (TBTO)	The law concerning the examination and regulation of manufacture etc. of chemical substances(class 1 specified chemical substances)
6	A18		Tributyl Tins & Triphenyl Tins	The law concerning the examination and regulation of manufacture etc. of chemical substances(class 2 specified chemical substances)
7	B02	Halogenated organic compords	Polybrominated Biphenyls (PBBs)	2002/95/EC(EU/RoHS)、(Dioxin Decree 07/15/1994)
8	B03		Polybrominated Diphenyl ethers (PBDEs)	2002/95/EC(EU/RoHS), (Dioxin Decree 07/15/1994)pentaBDE, octaBDE⇒76/769/EEC(+2003/11/EC)
9	B05		Polychlorinated Biphenyls (PCBs)	The law concerning the examination and regulation of manufacture etc. of chemical substances(class 1 specified chemical substances), 76/769/EEC
10	B06		Polychloronapthalenes (Cl=>3)	The law concerning the examination and regulation of manufacture etc. of chemical substances(class 1 specified chemical substances)
11	B09		Short Chain Chlorinated Paraffins *2	76/769/EEC(+2002/45/EC), (Dioxin Decree 07/15/1994)
12	C01	Others	Asbestos	76/769/EEC(+91/659/EEC)
13	C02		Azo Colorants *3	76/769/EEC(+2002/61/EC·+2003/3/EC), Consumer Goods Ordinance(04/1997)
14	C04		Ozone Depleting Substances *4	Law Concerning The Protection of The Ozone Layer Through The Control of Specified Substances and Other Measures, Montreal Protocol, Section 611 on the Clean Air Act of 1990, 76/769/EEC(+94/60/EEC,+97/64/EEC)
15	C06		Radioactive Substances	Law for the Regulation of Nuclear Source Material, Fuel Material Reactors 1986

*1:Inculding alloyed metal.

*2:Short Chain Chlorinated Paraffins(C10-13).

*3:Azo dyes and pigment forming certain amines. The subjected applications are limited to parts that may come into direct contact with human skin for a long time.
(certain amines are the substances listed 76/769/EEC,the 19th Amendment, refer to Appendix 3-1.)

*4:Substances listed in the Montreal Protocol, refer to Appendix3-1for the details of classes.
Regarding the Class Ⅱ substances, although they are not prohibited substances, the survey for them should be carried out.

Attachment 1. Survey Substance List (Level B) July 22, 2003

Level B

*The substance Groups of level B are those that apply to at least one of the 4 criteria stated below (*5).
The criteria were decided by the discussion done among JGPSSI, EIA and EICTA (on January 30-31, 2003) and the level B list is not composed of what is called hazardous substances.
It is not a list of toxic substances

No.	Substance Group	Classification	Substance
16	A01	Metal Compounds *1	Antimony and Antimony Compounds
17	A02		Arsenic and Arsenic Compounds
18	A03		Beryllium and Beryllium Compounds
19	A04		Bismuth and Bismuth Compounds
20	A11		Nickel and Nickel Compounds *2
21	A13		Selenium and Selenium Compounds
22	A16		Magnesium
23	B08	Halogenated organic compounds	Brominated Flame Retardants *3
24	B07		Vinyl Chloride Polymer (PVC)
25	C05	Others	Phthalates *4
26	D01	Noble metal *1	Copper and Copper Compounds
27	D02		Gold and Gold Compounds
28	D03		Palladium and Palladium Compounds
29	D04		Silver and Silver Compounds

*1 Inculding alloyed metal
*2 Nickel componds except for alloyed metal（for example：stainless steel）
*3 Brominated flame retardant except for PBBs and PBDEs, Please answer by ISO code 1043-4 or CAS№
*4 Only applies to the following 5 compounds which have been subjected to EU risk assessment（Appendix-3）
:Dibutylphthalate :Di(2-ethylhexyl)phthalate :Diisononyl phthalate
:1,2-Benzenedicarboxylic acid diisodecyl ester :Butyl benzyl phthalate
*5 a:Precious materials/ substances that are present in electronics that provide economic value at end-of-life to recyclers.
b:Materials /substances that are of significant environmental or health and safety interest.
c:Materials / substances that would trigger hazardous waste regulatory requirements.
d:Materials / substances that could have a negative impact on end-of-life management.

* CAS No, chemical formula and metals' conversion factors of these substances might have mistakes, thus the content is not assured

Classification	No.	Substance Group	No.	Substance	Chemical Formula	Metal conversion factor	CAS No.
Level A							
Metal compounds	A05	Cadmium and its compounds	A05001	Cadmium	Cd	1.000	7440-43-9
			A05002	Cadmium oxide	CdO	0.875	1306-19-0
			A05003	Cadmium sulfide	CdS	0.778	1306-23-6
			A05004	Cadmium chloride	$CdCl_2$	0.613	10108-64-2
			A05005	Cadmium sulfate	$CdSO_4$	0.539	10124-36-4
			A05990~9	Other cadmium compounds	-	-	-
	A07	Chromium VI and its compounds	A07001	Sodium dichromate	$Na_2Cr_2O_7$	0.397	10588-01-9
			A07002	Chromium(VI) oxide	CrO_3	0.520	1333-82-0
			A07003	Calcium chromate	$CaCrO_4$	0.333	13765-19-0
			A07004	Lead(II) chromate	$PbCrO_4$	0.161	7758-97-6
			A07005	Potassium dichromate	$K_2Cr_2O_7$	0.353	7778-50-9
			A07006	Potassium chromate	K_2CrO_4	0.268	7789-00-6
			A07990~9	Other hexavalent chromium compounds	-	-	-
	A09	Lead and its compounds	A09001	Lead	Pb	1.000	7439-92-1
			A09002	Lead(II) carbonate	$PbCO_3$	0.775	598-63-0
			A09003	Lead(IV) oxide	PbO_2	0.866	1309-60-0
			A09004	Lead(II,IV) oxide	Pb_3O_4	0.907	1314-41-6
			A09005	Lead(II) sulfide	PbS	0.866	1314-87-0
			A09006	Lead(II) oxide	PbO	0.928	1317-36-8
			A09007	Lead(II) carbonate basic	$_2PbCO_3.Pb(OH)_2$	0.801	1319-46-6
			A09008	Lead hydroxidcarbonate	$_2PbCO_3.Pb(OH)_2$	0.801	1344-36-1
			A09009	Lead(II) sulfate	$PbSO_4$	0.683	7446-14-2
			A09010	Lead(II) phosphate	$Pb_3(PO_4)_2$	0.766	7446-27-7
			A09011	Lead(II) chromate	$PbCrO_4$	0.641	7758-97-6
			A09012	Lead(II) titanate	$PbTiO_3$	0.686	12060-00-3
			A09013	Lead sulfate,sulphuric acid, lead salt	Pb_XSO_4	1.000	15739-80-7
			A09014	Lead sulphate,tribasic	$PbSO_4.H_2O$	0.850	12202-17-4
			A09015	Lead stearate	$Pb(C_{17}H_{35}COO)_2$	0.268	1072-35-1
			A09016	Lead stearate,dibasic	$_2PbO·Pb(C_{17}H_{35}COO)_2$	0.410	56189-09-4
			A09990~9	Other lead compounds	-	-	-
	A10	Mercury and its compounds	A10001	Mercury	Hg	1.000	7439-97-6
			A10002	Mercury(II) chloride	$HgCl_2$	0.739	7487-94-7
			A10003	Mercury(II) oxide	HgO	0.926	21908-53-2
			A10990~9	Other mercury compounds	-	-	-
	A17	Bis(tri-n-butyltin) oxide (TBTO)	A17001	Bis(tri-n-butyltin) oxide	$O(Sn(C_4H_9)_3)_2$	-	56-35-9
	A18	Tributyl Tins(TBTs) & Triphenyl Tins(TPTs)	A18001	Triphenyltin N,N'-dimethyldithiocarbamate	$(C_6H_5)_3Sn(CH_3)_2NCS_2$	-	1803-12-9
			A18002	Triphenyltin fluoride	$(C_6H_5)_3SnF$	-	379-52-2
			A18003	Triphenyltin acetate	$(C_6H_5)_3SnOCOCH_3$	-	900-95-8
			A18004	Triphenyltin chloride	$(C_6H_5)_3SnCl$	-	639-58-7
			A18005	Triphenyltin hydroxide	$(C_6H_5)_3SnOH$	-	76-87-9
			A18006	Triphenyltin fatty acid salts (C=9-11)	-	-	47672-31-1
			A18007	Triphenyltin chloroacetate	$(C_6H_5)_3SnOCOCH_2Cl$	-	7094-94-2
			A18008	Tributyltin methacrylate	$(C_4H_9)_3SnC_4H_5O_2$	-	2155-70-6
			A18009	Bis(tributyltin) fumarate	$C_2H_2(COO)_2((C_4H_9)_3Sn)_2$	-	6454-35-9
			A18010	Tributyltin fluoride	$(C_4H_9)_3SnF$	-	1983-10-4
			A18011	Bis(tributyltin) 2,3-dibromosuccinate	$((C_4H_9)_3Sn)_2C_2H_2(Br)_2(COO)_2$	-	31732-71-5
			A18012	Tributyltin acetate	$(C_4H_9)_3SnOCOCH_3$	-	56-36-0
			A18013	Tributyltin laurate	$(C_4H_9)_3SnC_{12}H_{23}O_2$	-	3090-36-6
			A18014	Bis(tributyltin) phthalate	$(C_6H_4)(COO)_2((C_4H_9)_3Sn)_2$	-	4782-29-0
			A18015	Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate(alkyl; C=8)	-	-	-
			A18016	Tributyltin sulfamate	$(C_4H_9)_3SnSO_3NH_2$	-	6517-25-5
			A18017	Bis(tributyltin) maleate	$C_2H_2(COO)_2((C_4H_9)_3Sn)_2$	-	14275-57-1
			A18018	Tributyltin chloride	$(C_4H_9)_3SnCl$	-	1461-22-9
			A18019	Mixture of tributyltin cyclopentanecarboxylate and its analogs (Tributyltin naphthenate)	$(C_4H_9)_3SnCO_3C_5H_9$	-	-

Classification	No.	Substance Group	No.	Substance	Chemical Formula	Metal conversion factor	CAS No.
Level A							
Metal compounds	A18	Tributyl Tins(TBTs) & Triphenyl Tins(TPTs)	A18020	Mixture of tributyltin 1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthlenecarboxylate and its analogs (Tributyltin rosin salt)	-	-	-
			A18997~9	Other Tributyl Tins & Triphenyl Tins	-	-	-
Halogenated organic compounds	B02	PBBs	B02001	polybrominated biphenyls	$C_{12}H_XBr_{(10-X)}$	-	-
			B02990~9	Other polybrominated biphenyls	-	-	-
	B03	PBDEs	B03001	polybrominated diphenyl ethers	$C_{12}H_XBr_{(10-X)}O$	-	-
			B03990~9	Other polybrominated diphenyl ethers	-	-	-
	B05	PCB/PCT	B05001	Polychlorinated biphenyls	Unspecified	-	1336-36-3
			B05002	Polychlorinated terphenyls	Unspecified	-	61788-33-8
			B05997~9	Other PCBs	-	-	-
	B06	Polychlorinated Naphthalenes (with more than 3 chlorine atoms)	B06001	Polychlorinated Naphthalenes (Cl=>3)	Unspecified	-	70776-03-3
			B06997~9	Other polychlorinated Naphthalenes (Cl=>3)	-	-	-
	B09	Short Chain Chlorinated Paraffins	B09001	Chlorinated paraffine (C10-13)	Unspecified	-	85535-84-8
			B09997~9	Other Short Chain Chlorinated Paraffins	-	-	-
Others	C01	asbestos	C01001	Actinolite	Unspecified	-	77536-66-4
			C01002	Amosite	Unspecified	-	12172-73-5
			C01003	Anthophyllite	Unspecified	-	77536-67-5
			C01004	Chrysotile	Unspecified	-	12001-29-5
			C01005	Crocidolite	Unspecified	-	12001-28-4
			C01006	Tremolite	Unspecified	-	77536-68-6
			C01997~9	Other asbestos	-	-	-
	C02	Azo colorant*4	C02001	Azo dyes forming certain amines	-	-	-
	C04	Ozone depleting substances (Isomers included) see appdenix3-1*1	C04097	CFCs (Annex A Group I substances in the Montreal Protocol)	← Class I	-	-
			C04098	Halons (Annex A Group II substances in the Montreal Protocol)	← Class I	-	-
			C04099	CFCs (Annex B Group I substances in the Montreal Protocol)	← Class I	-	-
			C04100	Carbon tetrachloride (Annex B Group II substance in the Montreal Protocol)	← Class I	-	-
			C04101	1,1,1-trichloroethane (Annex B Group III substance in the Montreal Protocol)	← Class I	-	-
			C04102	Bromochloromethane (Annex C Group III substance in the Montreal Protocol)	← Class I	-	-
			C04103	Methyl bromide (Annex E substance in the Montreal Protocol)	← Class I	-	-
			C04104	HBFCs (Annex C Group II substances in the Montreal Protocol)	← Class I	-	-
			C04105	HCFCs (Annex C Group I substances in the Montreal Protocol)	← Class II	-	-
	C06	Radioactive substances	C06001	Uranium	U	-	-
			C06002	Plutonium	Pu	-	-
			C06003	Radon	Rn	-	-
			C06004	Americium	Am	-	-
			C06005	Thorium	Th	-	-
			C06006	Cesium	Cs	-	7440-46-2
			C06007	Strontium	Sr	-	7440-24-6
			C06997~9	Other radioactive substances	-	-	-
Level B							
Metal compounds	A01	Antimony and its compounds	A01001	Antimony	Sb	1.000	7440-36-0
			A01002	Antimony trichloride	$SbCl_3$	0.534	10025-91-9
			A01003	Antimony trioxide	Sb_2O_3	0.835	1309-64-4
			A01004	Antimony pentoxide	Sb_2O_5	0.753	1314-60-9
			A01005	Sodium antimonate	Na_3O_4Sb	0.632	15432-85-6
			A01997~9	Other antimony compounds	-	-	-
	A02	Arsenic and its compounds	A02001	Arsenic	As	1.000	7440-38-2
			A02002	Gallium arsenide	GaAs	0.518	1303-00-0
			A02003	Arsenic pentoxide	As_2O_5	0.652	1303-28-2
			A02004	Arsenic trioxide	As_2O_3	0.757	1327-53-3
			A02997~9	Other arsenic compounds	-	-	-
	A03	Beryllium and its compounds	A03001	Beryllium	Be	1.000	7440-41-7
			A03002	Beryllium oxide	BeO	0.360	1304-56-9
			A03997~9	Other beryllium compounds	-	-	-
	A04	Bismuth and its compounds	A04001	Bismuth	Bi	1.000	7440-69-9
			A04002	Bismuth trioxide	Bi_4O_6	0.897	1304-76-3
			A04003	Bismuth nitrate	BiN_3O_9	0.529	10361-44-1
			A049979	Other bismuth compounds	-	-	-
	A11	Nickel compounds*2	A11001	Nickel(II) oxide	NiO	0.786	1313-99-1
			A11002	Nickel(II) carbonate	$NiCO_3$	0.494	3333-67-3
			A11003	Nickel(II) Sulfate	$NiSO_4$	0.379	7786-81-4
			A11004	Nickel	Ni	1.000	7440-02-0
			A119979	Other nickel compounds	-	-	-
	A13	Selenium and its compounds	A13001	Selenium	Se	1.000	7782-49-2
			A13002	Selenous acid	H_2SeO_3	0.612	7783-00-8
			A139979	Other selenium compounds	-	-	-
	A16	Magnesium	A16001	Magnesium	Mg	1.000	7439-95-4

Classification	No.	Substance Group		No.	Substance	Chemical Formula	Metal conversion factor	CAS No.
Level B								
Halogenated organic compounds	B08	Brominated flame retardant*3	ISO code ↓	B08001	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	-	-	-
				B08002	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	-	-	-
				B08003	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds（excluding brominated diphenyl ether and biphenyls）]	-	-	-
				B08004	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]	-	-	-
				B08005	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]	-	-	-
				B08006	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organic phosphorus compounds]	-	-	-
			CAS No. ↓	B08007	Poly(2,6-dibromo-phenylene oxide)	$(C_6H_2Br_2O)x$	-	69882-11-7
				B08008	Tetra-decabromo-diphenoxy-benzene	$C_{18}Br_{14}O_2$	-	58965-66-5
				B08009	1,2-Bis(2,4,6-tribromo-phenoxy) ethane	$C_{14}H_8Br_6O_2$	-	37853-59-1
				B08010	3,5,3',5'-Tetrabromo-bisphenol A (TBBA)	$C_{15}H_{12}Br_4O_2$	-	79-94-7
				B08011	TBBA, unspecified	-	-	30496-13-0
				B08012	TBBA-epichlorhydrin oligomer	$(C_{15}H_{12}Br_4O_2.C_3H_5ClO)x$	-	40039-93-8
				B08013	TBBA-TBBA-diglycidyl-ether oligomer	-	-	70682-74-5
				B08014	TBBA carbonate oligomer	$(C_{15}H_{12}Br_4O_2.CCl_2O)x$	-	28906-13-0
				B08015	TBBA carbonate oligomer, phenoxy end capped	$(C_7H_5O_2)(C_{16}H_{10}Br_4O_3)x(C_6H_5O)$ (x=3～5)	-	94334-64-2
				B08016	TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	$(C_7H_2Br_3O_3)(C_{16}H_{10}Br_4O_3)n(C_6H_2Br_3)$ (n=3～5)	-	71342-77-3
				B08017	TBBA-bisphenol A-phosgene polymer	$(C_{15}H_{16}O_2.C_{15}H_{12}Br_4O_2.CCl_2O)x$	-	32844-27-2
				B08018	Brominated epoxy resin end-capped with tribromophenol	-	-	139638-58-7
				B08019	Brominated epoxy resin end-capped with tribromophenol	-	-	135229-48-0
				B08020	TBBA-(2,3-dibromo-propyl-ether)	$C_{21}H_{20}Br_8O_2$	-	21850-44-2
				B08021	TBBA bis-(2-hydroxy-ethyl-ether)	$C_{19}H_{20}Br_4O_4$	-	4162-45-2
				B08022	TBBA-bis-(allyl-ether)	$C_{21}H_{20}Br_4O_2$	-	25327-89-3
				B08023	TBBA-dimethyl-ether	$C_{17}H_{16}Br_4O_2$	-	37853-61-5
				B08024	Tetrabromo-bisphenol S	$C_{12}H_6Br_4O_4S$	-	39635-79-5
				B08025	TBBS-bis-(2,3-dibromo-propyl-ether)	$C_{18}H_{14}Br_8O_4S$	-	42757-55-1
				B08026	2,4-Dibromo-phenol	$C_6H_4Br_2O$	-	615-58-7
				B08027	2,4,6-tribromo-phenol	$C_6H_3Br_3O$	-	118-79-6
				B08028	Pentabromo-phenol	C_6HBr_5O	-	608-71-9
				B08029	2,4,6-Tribromo-phenyl-alltl-ether	$C_9H_7Br_3O$	-	3278-89-5
				B08030	Tribromo-phenyl-allyl-ether, unspecified	$C_9H_7Br_3O$	-	26762-91-4

Classification	No.	Substance Group		No.	Substance	Chemical Formula	Metal conversion factor	CAS No.
Level B								
Halogenated organic componds	B08	Brominated flame retardant*3	CAS No. ↓	B08031	Hexabromo-cyclo-dodecane (HBCD), unspecified	$C_{12}H_{18}Br_6$	-	3194-55-6
				B08032	Tetrabromo-chyclo-octane	$C_8H_{12}Br_4$	-	31454-48-5
				B08033	1,2-Dibromo-4-(1,2 dibromo-methyl)-cyclo-hexane	$C_8H_{12}Br_4$	-	3322-93-8
				B08034	TBPA Na salt	$C_8Br_4O_4Na_2$	-	25357-79-3
				B08035	Tetrabromo phthalic-anhydride	$C_8Br_4O_3$	-	632-79-1
				B08036	Bis(methyl)tetrabromo-phtalate	$C_{10}H_6Br_4O_4$	-	55481-60-2
				B08037	Bis(2-ethlhexyl)tetrabromo-phtalate	$C_{24}H_{34}Br_4O_4$	-	26040-51-7
				B08038	2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	$C_{15}H_{16}Br_4O_7$	-	20566-35-2
				B08039	TBPA, glycol-and propylene-oxide esters	-	-	75790-69-1
				B08040	N,N'-Ethylene –bis-(tetrabromo-phthalimide)	$C_{18}H_4Br_8N_2O_4$	-	32588-76-4
				B08041	Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)	$C_{20}H_{20}Br_4N_2O_4$	-	52907-07-0
				B08042	2,3-Dibromo-2-butene-1,4-diol	$C_4H_6Br_2O_2$	-	3234-02-4
				B08043	Dibromo-neopentyl-glycol	$C_5H_{10}Br_2O_2$	-	3296-90-0
				B08044	Dibromo-propanol	$C_3H_6Br_2O$	-	96-13-9
				B08045	Tribromo-neopentyl-alcohol	$C_5H_9Br_3O$	-	36483-57-5
				B08046	Poly tribromo-styrene	-	-	57137-10-7
				B08047	Tribromo-styrene	$C_8H_5Br_3$	-	61368-34-1
				B08048	Dibromo-styrene grafted PP	-	-	171091-06-8
				B08049	Poly-dibromo-styrene	$C_8H_6Br_2$	-	31780-26-4
				B08050	Bromo-/Chloro-paraffins	-	-	68955-41-9
				B08051	Bromo-/Chloro-alpha-olefin	-	-	82600-56-4
				B08052	Vinylbromide	C_2H_3Br	-	593-60-2
				B08053	Tris-(2,3-dibromo-propyl)-isocyanurate	$C_{12}H_{15}Br_6N_3O_3$	-	52434-90-9
				B08054	Tris(2,4-Dibromo-phenyl) phosphate	$C_{18}H_9Br_6O_4P$	-	49690-63-3
				B08055	Tris(tribromo-neopentyl) phosphate	$C_{15}H_{24}Br_9O_4P$	-	19186-97-1
				B08056	Chlorinated and brominated phosphate esther	-	-	125997-20-8
				B08057	Pentabromo-toluene	$C_7H_3Br_5$	-	87-83-2
				B08058	Pentabromo-benzyl bromide	$C_7H_2Br_6$	-	38521-51-6
				B08059	1,3-Butadiene homopolymer,brominated	-	-	68441-46-3
				B08060	Pentabromo-benzyl-acrylate, monomer	$C_{10}H_5Br_5O_2$	-	59447-55-1
				B08061	Pentabromo-benzyl-acrylate, polymer	$(C_{10}H_5Br_5O_2)x$	-	59447-57-3
				B08062	Decabromo-diphenyl-ethane	$C_{14}H_4Br_{10}O_2$	-	61262-53-1
				B08063	Tribromo-bisphenyl-maleinimide	$C_{10}H_4Br_3NO_2$	-	59789-51-4
				B08064	Brominated trimethylphenyl-indane	-	-	59789-51-4
				B08997~9	Other Brominated Flame Retardants	-	-	-
	B07	Poly vinyl chloride（PVC）		B07001	Poly vinyl chloride（PVC）	$(CH_2CHCl)_n$	-	9002-86-2
Others	C05	Phthalate esters		C05001	Dibutylphthalate	$C_{16}H_{22}O_4$	-	84-74-2
				C05002	Di(2-ethylhexyl)phthalate	$C_{24}H_{38}O_4$	-	117-81-7
				C05003	Diisononyl phthalate	$C_{24}H_{38}O_4$	-	28553-12-0
				C05004	1,2-Benzenedicarboxylic acid diisodecyl ester	$C_{28}H_{46}O_4$	-	26761-40-0
				C05005	Butyl benzyl phthalate	$C_{19}H_{20}O_4$	-	85-68-7
				C05997~9	Other phtalate	-	-	-
Metal compounds	D01	Copper and its compounds		D01001	Copper	Cu	1.000	7440-50-8
				D01997~9	Other copper compounds	-		
	D02	Gold and its compounds		D02001	Gold	Au	1.000	7440-57-5
				D02997~9	Other gold compounds	-	-	-
	D03	Palladium and its compounds		D03001	Palladium	Pd	1.000	7440-05-3
				D03997~9	Other palladium compounds	-	-	-
	D04	Silver and its compounds		D04001	Silver	Ag	1.000	7440-22-4
				D04997~9	Other silver compounds	-	-	-

*1:Substances listed in the Montreal Protocol, refer to Appendix3-1for the details of classes.
Regarding the Class Ⅱ substances, although they are not prohibited substances, the survey for them should be carried out.
*2:Nickel componds except for alloyed metal（for example：stainless steel）
*3:Brominated flame retardant except for PBBs and PBDEs. Please answer by ISO code 1043-4 or CAS№
*4:Azo dyes forming certain amines（refer Appendix 3-2）
（certain amines are the substances listed 76/769/EEC,the 19th Amendment）
*5:For chemical substances which the metal conversion factors cannot be specified, it is settled as "1"

Ozone depleting substances:*1（isomers included）

Class	No.	Substance Group	Substance	Chemical Formula
Class I	C04097	CFCs(Annex A Group I substances in the Montreal Protocol)	CFC-11	$CFCl_3$
			CFC-12	CF_2Cl_2
			CFC-113	$C_2F_3Cl_3$
			CFC-114	$C_2F_4Cl_2$
			CFC-115	C_2F_5Cl
	C04098	Halons(Annex A Group II substances in the Montreal Protocol)	Halon 1211	CF_2BrCl
			Halon 1301	CF_3Br
			Halon 2402	$C_2F_4Br_2$
	C04099	CFCs(Annex B Group I substances in the Montreal Protocol)	CFC-13	CF_3Cl
			CFC-111	C_2FCl_5
			CFC-112	$C_2F_2Cl_4$
			CFC-211	C_3FCl_7
			CFC-212	$C_3F_2Cl_6$
			CFC-213	$C_3F_3Cl_5$
			CFC-214	$C_3F_4Cl_4$
			CFC-215	$C_3F_5Cl_3$
			CFC-216	$C_3F_6Cl_2$
			CFC-217	C_3F_7Cl
	C04100	Carbon tetrachloride(Annex B Group II substance in the Montreal Protocol)	Carbon tetrachloride	CCl_4
	C04101	1,1,1-trichloroethane(Annex B Group III substance in the Montreal Protocol)	1,1,1-Trichloroethane	$C_2H_3Cl_3$
	C04102	Bromochloromethane(Annex C Group III substance in the Montreal Protocol)	Chlorobromomethane	CH_2BrCl
	C04103	Methyl bromide(Annex E substance in the Montreal Protocol)	Methyl bromide	CH_3Br
	C04104	HBFCs(Annex C Group II substances in the Montreal Protocol)	Dibromofluoromethane	$CHFBr_2$
			Bromodifluoromethane	CHF_2Br
			Bromofluoromethane	CH_2FBr
			Tetrabromofluoroethane	C_2HFBr_4
			Tribromodifluoroethane	$C_2HF_2Br_3$
			Dibromotrifluoroethane	$C_2HF_3Br_2$
			Bromotetrafluoroethane	C_2HF_4Br
			Tribromofluoroethane	$C_2H_2FBr_3$
			Dibromodifluoroethane	$C_2H_2F_2Br_2$
			Bromotrifluoroethane	$C_2H_2F_3Br$
			Dibromofluoroethane	$C_2H_3FBr_2$
			Bromodifluoroethane	$C_2H_3F_2Br$
			Bromofluoroethane	C_2H_4FBr
			Hexabromofluoropropane	C_3HFBr_6
			Pentabromodifluoropropane	$C_3HF_2Br_5$
			Tetrabromotrifluoropropane	$C_3HF_3Br_4$
			Tribromotetrafluoropropane	$C_3HF_4Br_3$
			Dibromopentafluoropropane	$C_3HF_5Br_2$
			Bromohexafluoropropane	C_3HF_6Br
			Pentabromofluoropropane	$C_3H_2FBr_5$
			Tetrabromodifluoropropane	$C_3H_2F_2Br_4$
			Tribromotrifluoropropane	$C_3H_2F_3Br_3$
			Dibromotetrafluoropropane	$C_3H_2F_4Br_2$
			Bromopentafluoropropane	$C_3H_2F_5Br$
			Tetrabromofluoropropane	$C_3H_3FBr_4$
			Tribromodifluoropropane	$C_3H_3F_2Br_3$
			Dibromotrifluoropropane	$C_3H_3F_3Br_2$
			Bromotetrafluoropropane	$C_3H_3F_4Br$
			Tribromofluoropropane	$C_3H_4FBr_3$
			Dibromodifluoropropane	$C_3H_4F_2Br_2$
			Bromotrifluoropropane	$C_3H_4F_3Br$
			Dibromofluoropropane	$C_3H_5FBr_2$
			Bromodifluoropropane	$C_3H_5F_2Br$
			Bromofluoropropane	C_3H_6FBr
			Chlorobromomethane	CH_2BrCl
Class II	C04105	HCFCs(Annex C Group I substances in the Montreal Protocol)	HCFC-21	$CHFCl_2$
			HCFC-22	CHF_2Cl
			HCFC-31	CH_2FCl
			HCFC-121	C_2HFCl_4
			HCFC-122	$C_2HF_2Cl_3$
			HCFC-123	$C_2HF_3Cl_2$
			HCFC-123*2	$CHCl_2CF_3$
			HCFC-124	C_2HF_4Cl
			HCFC-124*2	$CHFClCF_3$
			HCFC-131	$C_2H_2FCl_3$
			HCFC-132	$C_2H_2F_2Cl_2$
			HCFC-133	$C_2H_2F_3Cl$
			HCFC-141	$C_2H_3FCl_2$
			HCFC-141b*2	CH_3CFCl_2
			HCFC-142	$C_2H_3F_2Cl$
			HCFC-142b*2	CH_3CF_2Cl
			HCFC-151	C_2H_4FCl
			HCFC-221	C_3HFCl_6
			HCFC-222	$C_3HF_2Cl_5$
			HCFC-223	$C_3HF_3Cl_4$
			HCFC-224	$C_3HF_4Cl_3$
			HCFC-225	$C_3HF_5Cl_2$
			HCFC-225ca*2	$CF_3CF_2CHCl_2$
			HCFC-225cb*2	CF_2ClCF_2CHClF
			HCFC-226	C_3HF_6Cl
			HCFC-231	$C_3H_2FCl_5$
			HCFC-232	$C_3H_2F_2Cl_4$
			HCFC-233	$C_3H_2F_3Cl_3$
			HCFC-234	$C_3H_2F_4Cl_2$
			HCFC-235	$C_3H_2F_5Cl$
			HCFC-241	$C_3H_3FCl_4$
			HCFC-242	$C_3H_3F_2Cl_3$
			HCFC-243	$C_3H_3F_3Cl_2$
			HCFC-244	$C_3H_3F_4Cl$
			HCFC-251	$C_3H_4FCl_3$
			HCFC-252	$C_3H_4F_2Cl_2$
			HCFC-253	$C_3H_4F_3Cl$
			HCFC-261	$C_3H_5FCl_2$
			HCFC-262	$C_3H_5F_2Cl$
			HCFC-271	C_3H_6FCl

*1:Substances listed in the Montreal Protocol
*2:These substance have the highest potentials to be used commercially.

Attachment 4. Certain Amines July 22, 2003
(formed through cleavage of one or more Azo bonds)

Substance	Chemical Formula	CAS No.
4-Aminoazobenzene	$C_{12}H_{11}N_3$	60-09-3
o-anisidine	C_7H_9NO	90-04-0
2-naphthylamine	$C_{10}H_9N$	91-59-8
3,3'-dichlorobenzidine	$C_{12}H_{10}Cl_2N_2$	91-94-1
biphenyl-4-ylamine	$C_{12}H_{11}N$	92-67-1
Benzidine	$C_{12}H_{12}N_2$	92-87-5
o-toluidine	C_7H_9N	95-53-4
4-chloro-*o*-toluidine	C_7H_8ClN	95-69-2
2,4-toluenediamine	$C_7H_{10}N_2$	95-80-7
o-aminoazotoluene	$C_{14}H_{15}N_3$	97-56-3
5-nitro-*o*-toluidine	$C_7H_8N_2O_2$	99-55-8
3,3'-dichloro-4,4'-diaminodiphenylmethane	$C_{13}H_{12}Cl_2N_2$	101-14-4
4,4'-methylenedianiline	$C_{13}H_{14}N_2$	101-77-9
4,4'-diaminodiphenylether	$C_{12}H_{12}N_2O$	101-80-4
p-chloroaniline	C_6H_6ClN	106-47-8
3,3'-dimethoxybenzidine	$C_{14}H_{16}N_2O_2$	119-90-4
3,3'-dimethylbenzidine	$C_{14}H_{16}N_2$	119-93-7
2-methoxy-5-methylaniline	$C_8H_{11}NO$	120-71-8
2,4,5-trimethylaniline	$C_9H_{13}N$	137-17-7
4,4'-thiodianiline	$C_{12}H_{12}N_2S$	139-65-1
4-methoxy-m-phenylenediamine	$C_7H_{10}N_2O$	615-05-4
4,4'-methylenedi-o-toluidine	$C_{15}H_{18}N_2$	838-88-0

Attachment 5. July 22, 2003
List of Survey Substances Used in Manufacturing Processes

* Isomers included

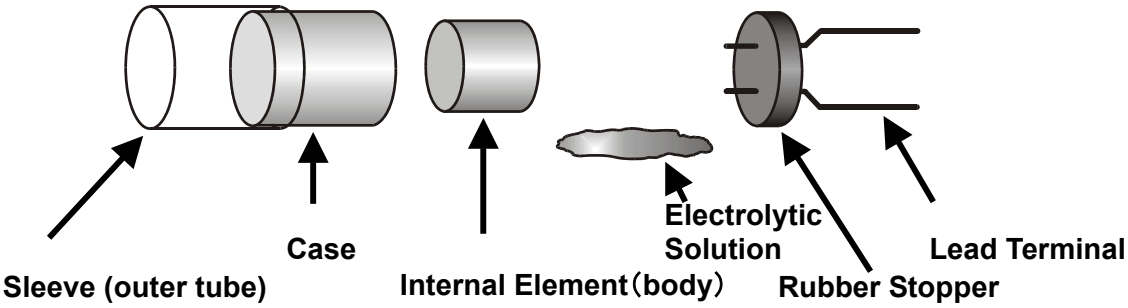
Substance	Chemical Formula
CFC-11	$CFCl_3$
CFC-12	CF_2Cl_2
CFC-113	$C_2F_3Cl_3$
CFC-114	$C_2F_4Cl_2$
CFC-115	C_2F_5Cl
Halon 1211	CF_2BrCl
Halon 1301	CF_3Br
Halon 2402	$C_2F_4Br_2$
CFC-13	CF_3Cl
CFC-111	C_2FCl_5
CFC-112	$C_2F_2Cl_4$
CFC-211	C_3FCl_7
CFC-212	$C_3F_2Cl_6$
CFC-213	$C_3F_3Cl_5$
CFC-214	$C_3F_4Cl_4$
CFC-215	$C_3F_5Cl_3$
CFC-216	$C_3F_6Cl_2$
CFC-217	C_3F_7Cl
Carbon tetrachloride	CCl_4
1,1,1-Trichloroethane	$C_2H_3Cl_3$
Methyl bromide	CH_3Br
Dibromofluoromethane	$CHFBr_2$
Bromodifluoromethane	CHF_2Br
Bromofluoromethane	CH_2FBr
Tetrabromofluoroethane	C_2HFBr_4
Tribromodifluoroethane	$C_2HF_2Br_3$
Dibromotrifluoroethane	$C_2HF_3Br_2$
Bromotetrafluoroethane	C_2HF_4Br
Tribromofluoroethane	$C_2H_2FBr_3$
Dibromodifluoroethane	$C_2H_2F_2Br_2$
Bromotrifluoroethane	$C_2H_2F_3Br$
Dibromofluoroethane	$C_2H_3FBr_2$
Bromodifluoroethane	$C_2H_3F_2Br$
Bromofluoroethane	C_2H_4FBr
Hexabromofluoropropane	C_3HFBr_6
Pentabromodifluoropropane	$C_3HF_2Br_5$
Tetrabromotrifluoropropane	$C_3HF_3Br_4$
Tribromotetrafluoropropane	$C_3HF_4Br_3$
Dibromopentafluoropropane	$C_3HF_5Br_2$
Bromohexafluoropropane	C_3HF_6Br
Pentabromofluoropropane	$C_3H_2FBr_5$
Tetrabromodifluoropropane	$C_3H_2F_2Br_4$
Tribromotrifluoropropane	$C_3H_2F_3Br_3$
Dibromotetrafluoropropane	$C_3H_2F_4Br_2$
Bromopentafluoropropane	$C_3H_2F_5Br$
Tetrabromofluoropropane	$C_3H_3FBr_4$
Tribromodifluoropropane	$C_3H_3F_2Br_3$
Dibromotrifluoropropane	$C_3H_3F_3Br_2$
Bromotetrafluoropropane	$C_3H_3F_4Br$
Tribromofluoropropane	$C_3H_4FBr_3$
Dibromodifluoropropane	$C_3H_4F_2Br_2$
Bromotrifluoropropane	$C_3H_4F_3Br$
Dibromofluoropropane	$C_3H_5FBr_2$
Bromodifluoropropane	$C_3H_5F_2Br$
Bromofluoropropane	C_3H_6FBr
Chlorobromomethane	CH_2BrCl

Attachment 6. Part Component Unit Examples

The following is a collection of examples of part names to serve as a reference for filling out the application item in the survey. Calculate and enter the amount contained for the substance concerned even for other part types, by referencing the calculation examples below and the component parts given in the following pages.

【Part Name Display Examples and Sample Amount Contained Calculations】:

Electrical Parts（Resistors, capacitors, etc.）



＊ Sample amounts contained for each part component and their calculations

Component	Applicable Substance	Amount Contained	Calculation
Aluminum electrolytic capacitor			
Sleeve (outer tube) : Polyvinyl chloride Weight 0.3 g	Polyvinyl chloride	50 %	0.3 g × 0.50 = 150 mg
	Dibutyl phthalate	40 %	0.3 g × 0.40 = 120 mg
	Antimony trioxide	10 %	0.3 g × 0.10 × 0.835 = 25 mg
	（Since antimony trioxide is a metal compound, multiply the metal conversion coefficient of 0.835 from the Sample Substance List by the composition ratio, and calculate the amount of antimony metal.）		
Case	Not contained		
Internal element (body) Weight 2.0 g	Antimony	20.0 mg	20 mg
	Lead	9.0 mg	9.0 mg
Electrolytic solution	Not contained		
Lead terminal: Weight 0.1 g	Lead	10.0 mg	10 mg
	Copper	20.0 mg	20 mg
Rubber stopper	Not contained		

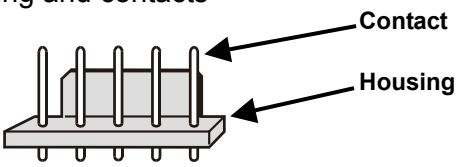
The responses are as follows

Substance Group	Amount Contained	Application	Purpose of Use	Amount contained calculation details
A01:Antimony and its compounds	45 mg	Sleeve, etc.	Flame retardant	25mg+20mg=45mg
A09:Lead and its compounds	20 mg	Lead terminal etc.	Solder plating	9mg+11mg=20mg
B07:Polyvinyl chloride (PVC)	150 mg	Sleeve	Main ingredient	—
C05:Phthalate esters	120 mg	Sleeve	Plasticizer	—
D01:Copper and its compounds	20 mg	Lead terminal	Main ingredient	—

Using the sample calculations on the previous page and the component parts below as a reference, calculate the amounts of applicable substances contained for other part types, and enter the results.

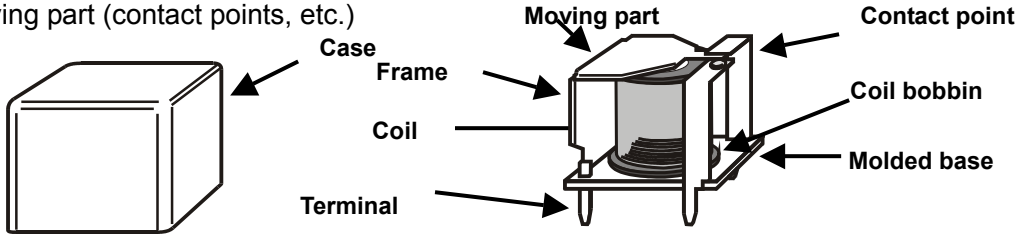
【Component Part Example 1】 Connectors

Component parts: Housing and contacts



【Component Part Example 2】 Switches, relays, and other parts with mechanical components

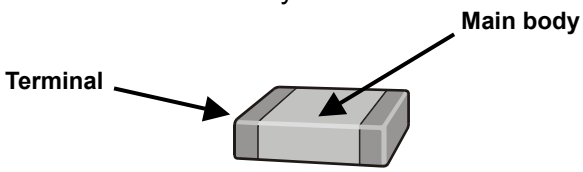
Component parts: Part case (molded plastic etc.), metal components (lever, frame, terminals, etc.), moving part (contact points, etc.)



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

【Component Part Example 3】 Surface-mounted chip parts

Component parts: Terminal and main body

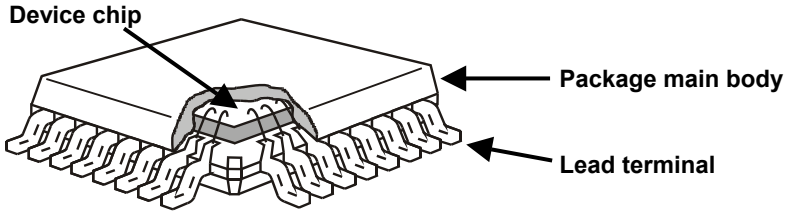


＊The main body of the part is made of multiple materials and the substance concerned is present, break it down.

e.g.）Part (main body) ⟶ ceramic and internal electrode

【Component Part Example 4】 Semiconductor devices

Component parts: Lead terminal (lead frame, etc.), package main body (molded plastic, etc.), and device chip

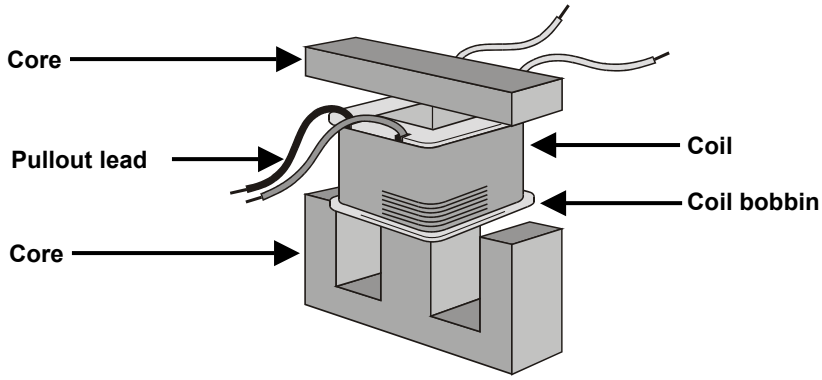


* Please pay particular attention to any flame retardants in the package plastic, and the lead material and treatment

* Make the response concerning the device chip as best you can

【Component Part Example 5】 Transformers and inductors

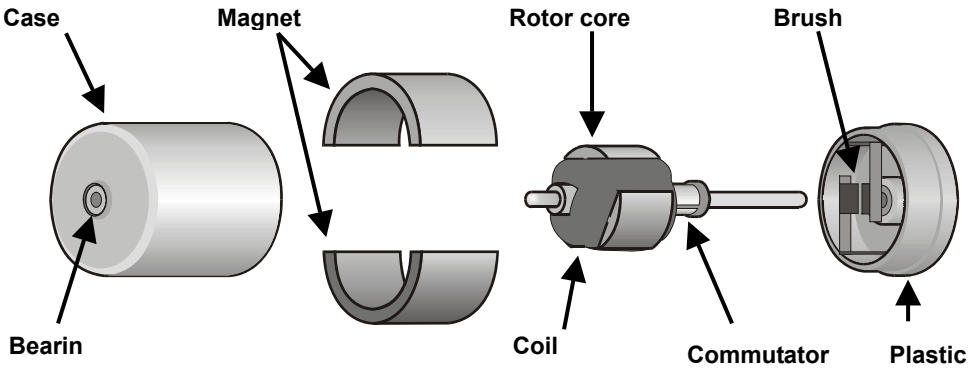
Component parts: Core, coil, bobbin, lead wire, insulator, case frame, etc.



* Pay particular attention to flame retardants in plastic materials or insulating parts, impregnant in the coil, PVCs or flame retardants in the lead wire.

【Component Part Example 6】 DC motors

Component parts: Part case (molded plastic, etc.), metal parts (shaft, rotor core, terminal, frame, etc.), brush, magnet, coil, and other

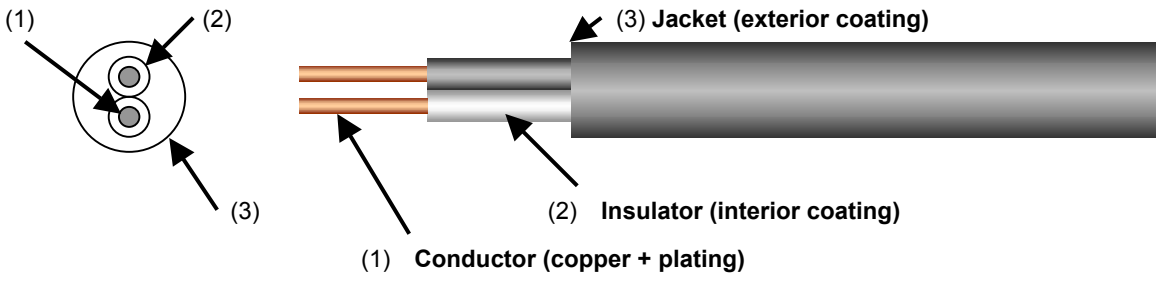


* Pay particular attention to special metals (alloys) used for flame retardants in plastic, and electrical characteristics and lubrication in commutators, as well as grease in bearings.

* Calculate the amount contained per part from the amounts contained in each of the part components, when the substance is contained in lead wire and electronic circuits.

【 Component Part Example 7】 Electrical cable (power cord)

Component parts: Conductor (copper + plating), insulator (interior coating), and jacket (exterior coating)



* Some annexes use more precise epressions compared to the guidelines.

output file（JGP file） specifications

1 line code

Basic information line 1	line code 100
Basic information line 2	line code 110
Basic information line 3	line code 120
Part unit line	line code 200
Substance groups unit line	line code 300
Substance unit line	line code 400
Material unit line	line code 500

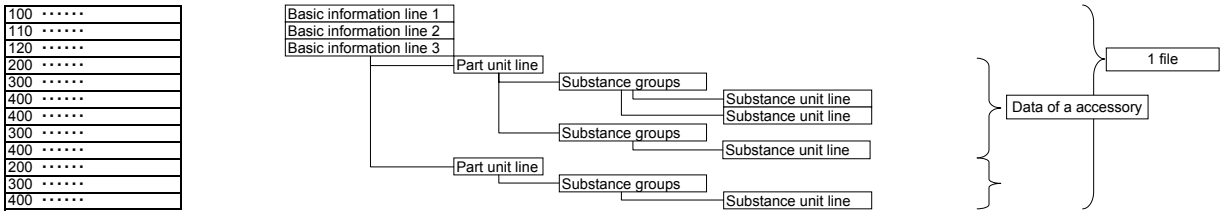
Setting up seven kinds of above-mentioned lines, the line code will be described at the head of a line .
The turn of the lines express the relationships of the data.

・The basic information lines 1, 2, and 3 should be carried out each to one in a file
・Two or more accessories can be existed in one file
・Two or more substance groups can be related to one accessory
・Two or more substances can be related to one substance group
・The substance group of a accessory is described in a substance group unit line after a part unit line
・The substance in a substance group is described in a substance unit line after a substance group unit line
・TAB is used to separate data

2 Instruction of JGP file for chemical substances

・The basic information lines 1, 2, and 3 should be carried out each to one in a file
・Two or more accessories can be existed in one file
・Two or more substance groups can be related to one accessory
・Two or more substances can be related to one substance group
・The substance group of a accessory is described in a substance group unit line after a part unit line
・The substance in a substance group is described in a substance unit line after a substance group unit line
・TAB is used to separate data

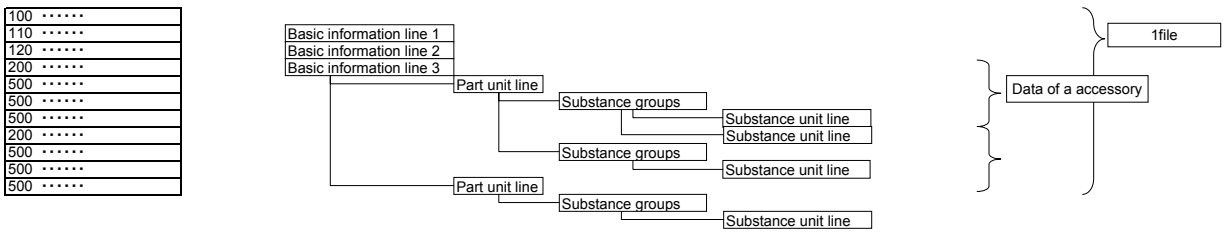
Image of JGP file



3 Instruction of JGP file for chemical substances for material composition

・The basic information lines 1, 2, and 3 should be carried out each to one in a file
・Two or more accessories can be existed in one file
・Two or more material compositions can be related to one accessory
・The material compositions in an accessory is described in a material unit line after a part group unit line
・TAB is used to separate data

Image of JGP file



4 Format of JGP file(V2.00)

Change tracking		
Basic information line 1	Changed the tool version to format version	Apr 11,2002
Basic information line 1	Added Tool name	Apr 11,2002
Part unit line	Changed to Parts unit	Apr 11,2002
Part unit line	Changed to parts Mass unit	Apr 11,2002
Part unit line	Changed the order of Use of Ozone Depleting Substances and List A Substances Contained	Apr 11,2002
Part unit line	-	Apr 11,2002
Basic information line 1	Added Date of entry	V2.00
Basic information line 2	Added Company name	V2.00
Basic information line 2	Added DUNS number	V2.00
Basic information line 3	Added Company name	V2.00
Part unit line	Added Data version	V2.00
Part unit line	Added Revision date	V2.00
Basic information line 1	Changed the format version to 2.00	V2.00
Basic information line 1	Added Radioactive substances to *3 and *4	V2.00
Basic information line 1	Added *5,*6,*7	V2.00

Basic information line 1

Data in order	1	2	3	4	5	6	7	8	9
Content	Line code	Language flag	Format version	Reference No.	Date of entry	Parts Mass Unit	Substance Mass Unit	Tool Name	Operation date
Byte	3	1	5 and below	30 and below	10	1	1	40 and below	10
Remarks	100	0:Japanese 1:English			YYYY/MM/DD	1 :mg 2 :g 3 :kg 4:t *5	1 :mg 2 :g 3 :kg 4:t *6		YYYY/MM/DD
			Addition from Apr 11,2002 V2.00 changed			*5 only 2 :g can be used *6 only 1 :mg can be used		Addition from Apr 11,2002	Addition from V2.00

Basic information line 2

Data in order	1	2	3	4	5	6	7	8	9	10
Content	Line code	Division (English)	Contact person (English)	TEL No.	FAX No.	Email	Column 1	Column 2	Column 3	Company (English)
Byte	3	80 and below	20 and below	20 and below	20 and below	40 and below	80 and below	80 and below	80 and below	80 and below
Remark	110	surveying company	surveying company	surveying company	surveying company	surveying company	surveying company	surveying company	surveying company	surveying company

11	12	13	14	15	16	17	18	19	20
Address (English)	Division (English)	Entry person (English)	TEL No.	FAX No.	Email	Column 4	Column 5	Column 6	Company (English)
80 and below	80 and below	20 and below	20 and below	20 and below	40 and below	80 and below	80 and below	80 and below	80 and below
surveyed company	surveyed company	surveyed company	surveyed company	surveying company	surveyed company	surveyed company	surveyed company	surveyed company	surveying company
									V2.00 added

21	22
DUNS number	DUNS number
9	9
surveying company	surveyed company
V2.00 added	V2.00 added

Basic information line 3

Data in order	1	2	3	4	5	6	7	8
Content	Line code	Division(Japanese)	Contact person (Japanese)	Company (Japanese)	Address (Japanese)	Division (Japanese)	Entry person (Japanese)	Company name (Japanese)
Byte	3	80 and below	40 and below	80 and below	80 and below	80 and below	40 and below	80 and below
Remarks	120	surveying company	surveying company	surveyed company	surveyed company	surveyed company	surveyed company	surveying company
								V2.00 added

Part unit line

Data in order	1	2	3	4	5	6	7	8	9	10
Content	Line code	Parts Number (used at surveying company)	Parts Name	Surveying Company Column 1	Surveying Company Column 2	Surveying Company Column 3	Manufacturer's Name	Parts Number (used at surveyed company)	Surveyed Company Columm 1	Surveyed Company Columm 2
Byte	3	40 and below	40 and below	40 and below	40 and below	40 and below	40 and below	40 and below	40 and below	40 and below
Remarks	200									

11	12	13	14	15	16	17	18	19	20
Surveyed Company Columm 3	Unit	Parts Mass	Use of Ozone-depleting Substances	List A Substances Contained	Column 7*7	Column 8*7	Column 9*7	Column 10*7	Column 11*7
40 and below	20 and below	20 and below	1	1	80 and below	80 and below	80 and below	80 and below	80 and below
			0 :No 1:Yes	0 :No 1:Yes					
	Addition from Apr 11,2002	Addition from Apr 11,2002	Addition from Apr 11,2002	Addition from Apr 11,2002	*7 Do not use column7- 18				

21	22	23
Column 8*7	version of data	revision date
80 and below	40 and below	10
		YYYY/MM/DD
	V2.00 added	V2.00 added

Substance groups unit line

Data in order	1	2	3	4	5	6	7	8	9
Content	Line code	Classification No.	Total Sum	Content on Group Level	Application (parts)	Purposes of Use	Column 13*7	Column 14*7	Column 15*7
Byte	3	3	20 and below	20 and below	80 and below	80 and below	80 and below	80 and below	80 and below
Remarks	300								

Substance unit line

Data in order	1	2	3	4	5	6	7	8	9	10
Content	Line code	Classification No.	CAS *4	Compounds *2	Content *3	Application (parts)	Purposes of Use	Column 16*7	Column 17*7	Column 18*7
Byte	3	6	20 and below	20 and below	20 and below	80 and below	80 and below	80 and below	80 and below	80 and below
Remarks	400									

*4 Radioactive nuclide for radioactive material

*2 Effective only for metal componds

*3 Metal content for metal compounds, content for halogenatd organic compounds and others

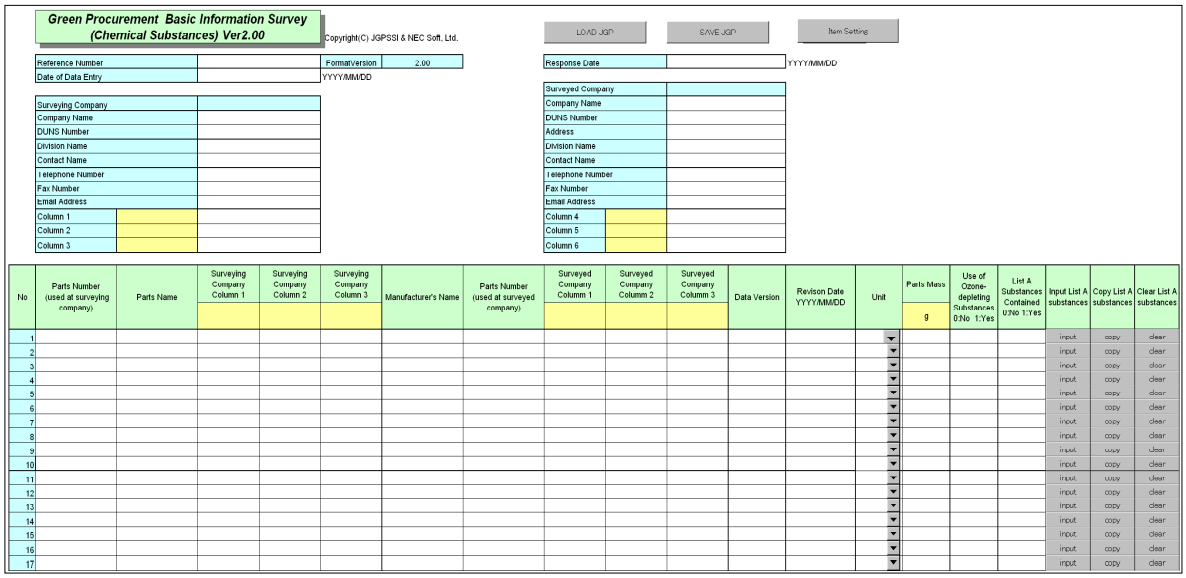
Material unit line

Data in order	1	2	3	4	5	6	7
Content	Line code	Classification No.	Mass	Application	Column 19	Column 20	Column 21
Byte	3	3	20 and below	80 and below	80 and below	80 and below	80 and below
Remarks	500						

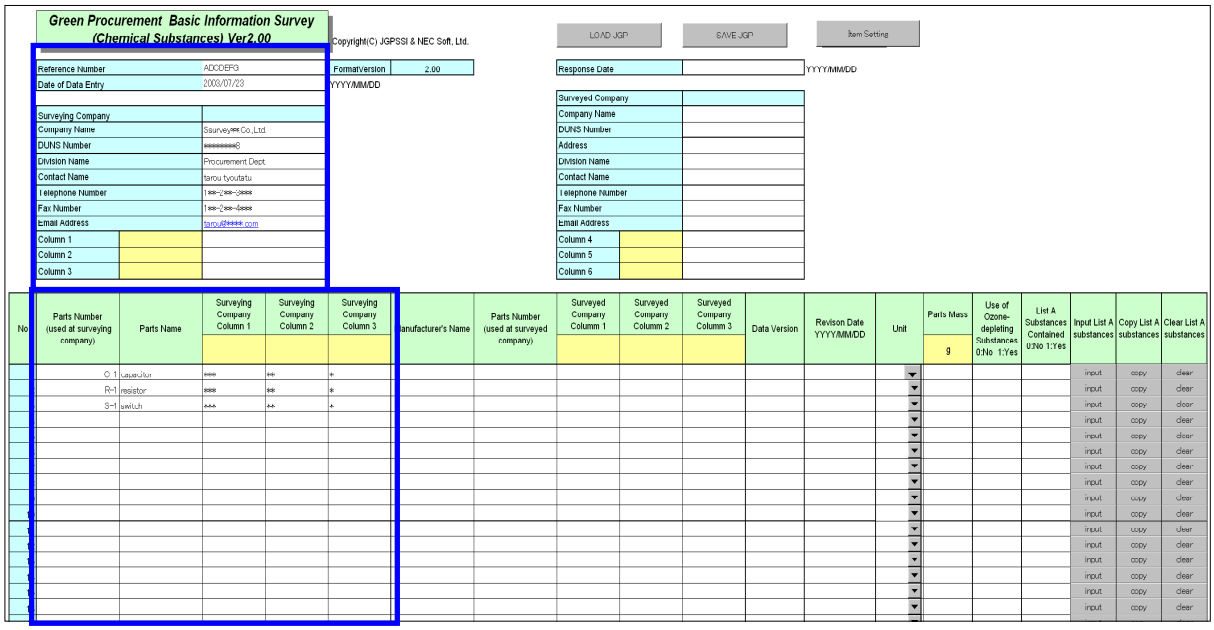
Attachment 8 : Common Green Procurement Survey Tool Ver. 2.00 Operating Manual

1. Loading survey request data

(1) Save the survey request data JGP file on your computer.
(2) Double-click the Survey Tool V2.0.xls[*1]
(a) Excel[*2] will start up.
*1:Please note the actual file may be different in the case of a name change or a newer version
*2:Excel is a registered trademark of Microsoft Corporation in the USA and other countries.

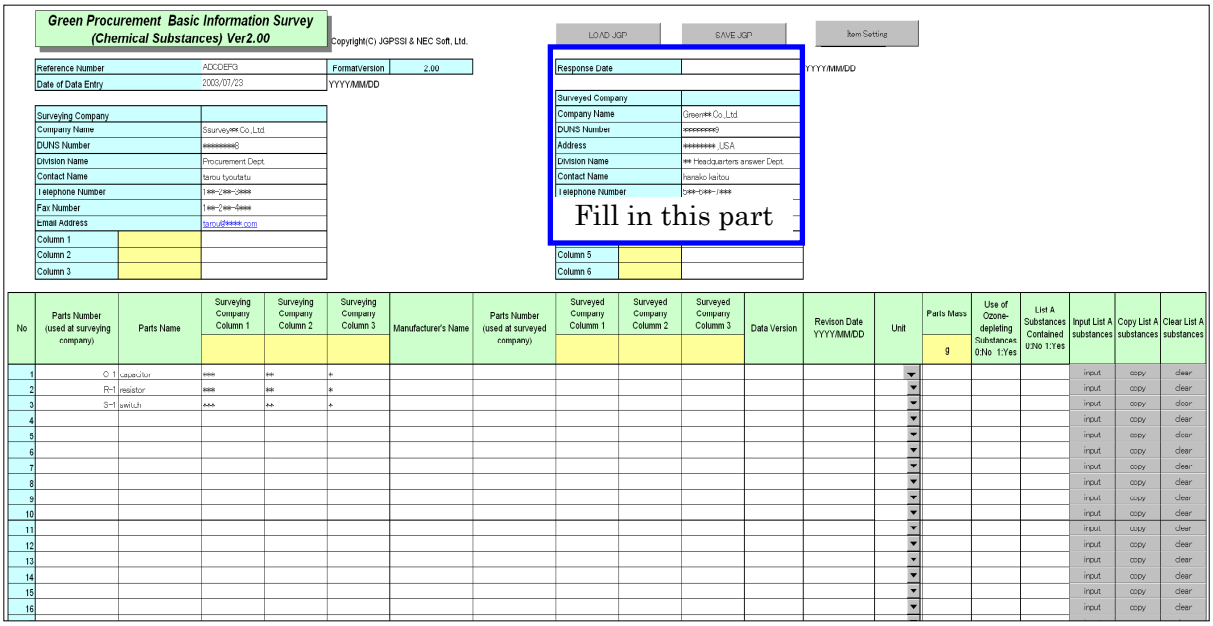


(b) Click the LOAD JGP button.
Select the survey request JGP file and click “Open.” The survey request will be loaded into the survey tool.



2. Entering response details

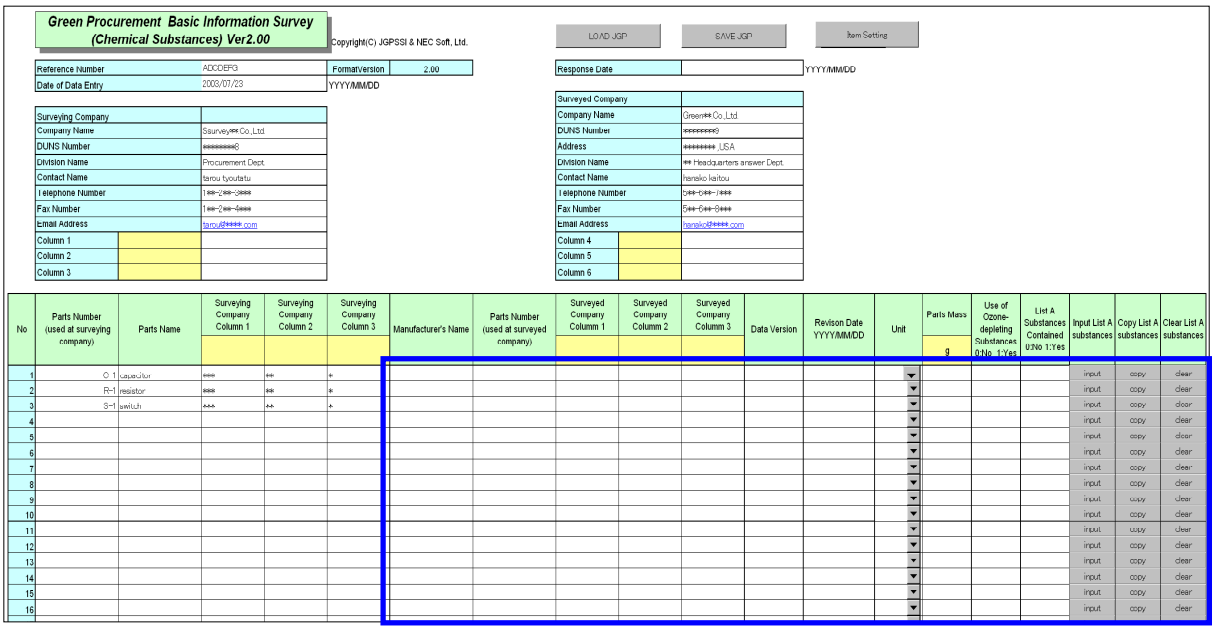
(1) Entering the surveyed company information
(a) Enter your response date, company name, address, division name, contact name, telephone number, fax number, and email address.
Note: If you are instructed to fill in columns 4 to 6 by the surveying company, please do so.



[Entry Example]

Surveyed Company	
Company Name	Green**.Co.,Ltd.
DUNS Number	*********9
Address	******** ,USA
Division Name	** Headquarters answer Dept.
Contact Name	hanako kaitou
Telephone Number	5**-6**-7***
Fax Number	5**-6**-8***
Email Address	hanako@****.com
Column 4	
Column 5	
Column 6	

(2) Enter the part information.



(a) Enter the manufacturer's name, part number (used at the surveyed company), and the revision date for the survey item concerned. Fill in surveyed company columns 1 to 3 based on the instructions of the surveying company. If not instructed to do so, do not enter anything or make any revisions. If there is no information applicable to the data version, you may leave it blank.
[Entry Example]

Manufacturer's Name	Parts Number (used at surveyed company)	Surveyed Company	Surveyed Company	Surveyed Company	Data Version	Revison Date YYYY/MM/DD
*# Co.,Ltd.	12-A				a-11	2003/7/25
*Electric Co.,Ltd.	B-77				b-22	2003/7/26
**Electric Co.,Ltd.	SS-12				c-777	2003/7/24

(b) Select the unit and enter the total weight per unit
: Select the unit from the pull down menu.
: Enter the total weight in grams for the unit set.
(e.g.) When the unit is "units" → the weight per unit of the survey item
When the unit is kilograms → the weight per kilogram = 1000 g.

[Entry Example]

Surveyed Company	Surveyed Company	Surveyed Company	Data Version	Revison Date YYYY/MM/DD	Unit	Parts Mass g
			a-11	2003/7/25	piece	94.000
			b-22	2003/7/26	piece	35.000
			c-777	2003/7/24	piece	25.000

(c) Enter whether ozone depleting substances are used in the manufacturing process.
: If they are used in the manufacturing process enter "1," if they are not used enter "0."
-Indicate whether such substances are used in the manufacturing process regardless of whether or not they are present in the part or product.
-However, this does not include uses outside of the direct manufacturing process such as analysis, measurement and product development.
*Refer to Attachment 5 regarding ozone depleting substances
[Entry Example]

Surveyed Company	Data Version	Revison Date YYYY/MM/DD	Unit	Parts Mass	Use of Ozone-depleting
				g	
	a-11	2003/7/25	piece	94.000	0
	b-22	2003/7/26	piece	35.000	0
	c-777	2003/7/24	piece	25.000	0

(d) Enter whether or not substances are contained

: If any substance from Attachment 1 “Survey Substance List” is contained, enter “1.” → Go to (e)

If none of the substances from Attachment 1 “Survey Substance List” are contained, enter “0.” → Response entry for part is complete.

[Entry Example]

Data Version	Revison Date YYYY/MM/DD	Unit	Parts Mass	Use of Ozone-depleting	List A Substances Contained	Input List A substances	Copy List A substances	Clear List A substances
			g					
a-11	2003/7/25	piece	94.000	0	1	input	copy	clear
b-22	2003/7/26	piece	35.000	0	0	input	copy	clear
c-777	2003/7/24	piece	25.000	0	0	input	copy	clear

(e) If a substance is contained, click the substance “input” button.

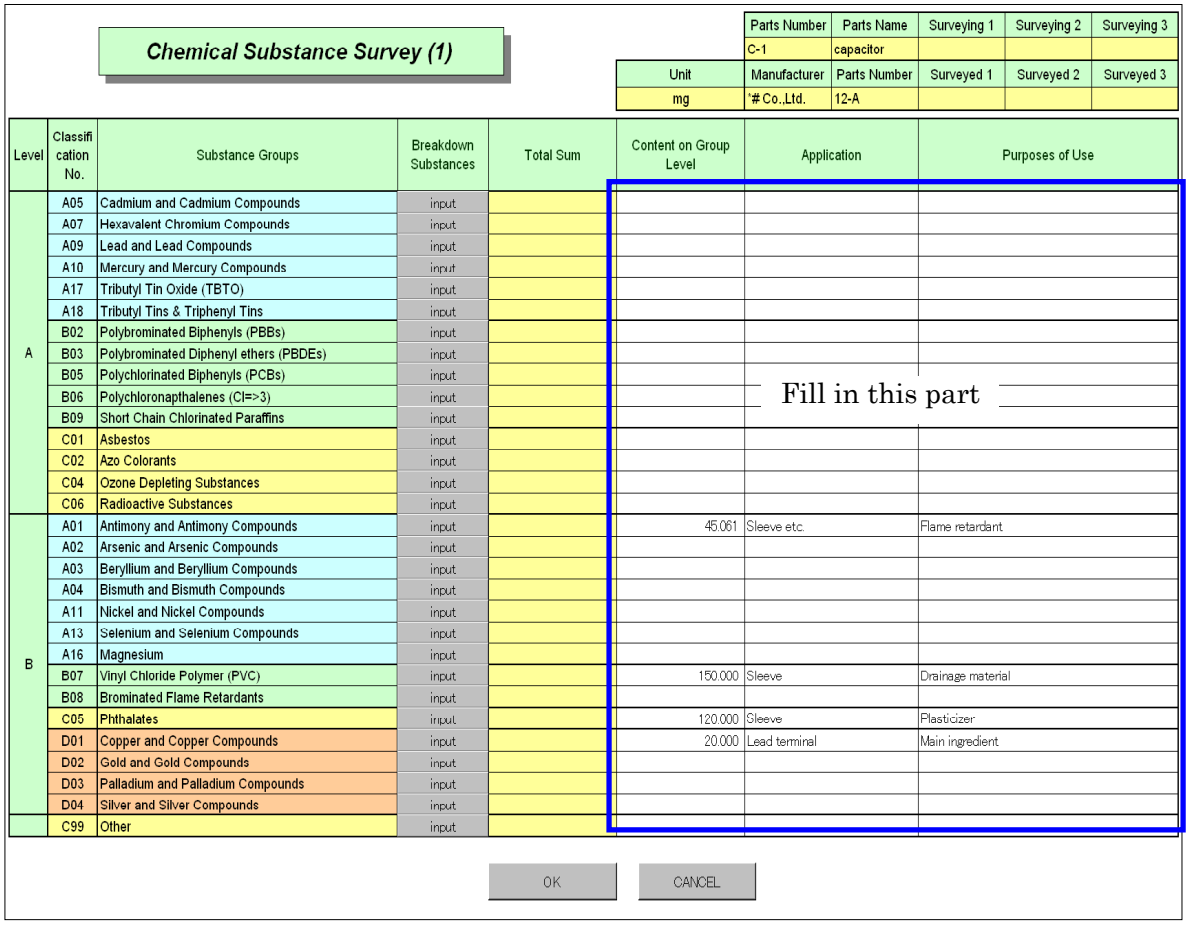
Note: If a substance is not contained do not click the button.

Data Version	Revison Date YYYY/MM/DD	Unit	Parts Mass	Use of Ozone-depleting	List A Substances Contained	Input List A substances	Copy List A substances	Clear List A substances
			g					
a-11	2003/7/25	piece	94.000	0		input	copy	clear
b-22	2003/7/26	piece	35.000	0	0	input	copy	clear
c-777	2003/7/24	piece	25.000	0	0	input	copy	clear

(f) If you responding by substance group, enter the substance amount contained (content on group level), the application, and the purpose of its use.

Note: If the same substance is contained in several parts, enter the main application, followed by "etc."

[Entry Example]Attachment 6: For "Sample Amount Contained Calculations," Part Component Unit Examples



Chemical Substance Survey (1)

Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
C-1	capacitor			

Unit	Manufacturer	Parts Number	Surveyed 1	Surveyed 2	Surveyed 3
mg	'# Co.,Ltd.	12-A			

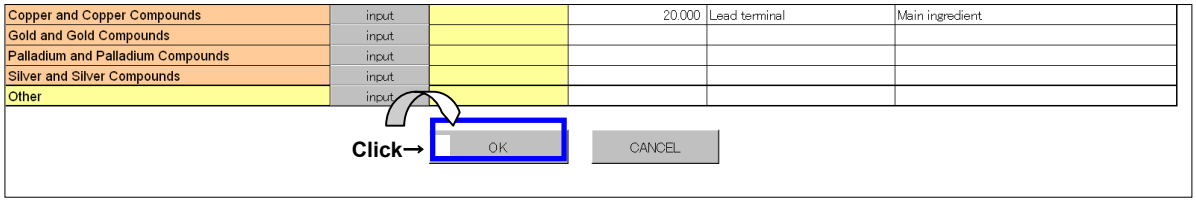
Level	Classification No.	Substance Groups	Breakdown Substances	Total Sum	Content on Group Level	Application	Purposes of Use
A	A05	Cadmium and Cadmium Compounds	input				
	A07	Hexavalent Chromium Compounds	input				
	A09	Lead and Lead Compounds	input				
	A10	Mercury and Mercury Compounds	input				
	A17	Tributyl Tin Oxide (TBTO)	input				
	A18	Tributyl Tins & Triphenyl Tins	input				
	B02	Polybrominated Biphenyls (PBBs)	input				
	B03	Polybrominated Diphenyl ethers (PBDEs)	input				
	B05	Polychlorinated Biphenyls (PCBs)	input				
	B06	Polychloronapthalenes (Cl=>3)	input				
	B09	Short Chain Chlorinated Paraffins	input				
	C01	Asbestos	input				
	C02	Azo Colorants	input				
	C04	Ozone Depleting Substances	input				
	C06	Radioactive Substances	input				
B	A01	Antimony and Antimony Compounds	input		45.061	Sleeve etc.	Flame retardant
	A02	Arsenic and Arsenic Compounds	input				
	A03	Beryllium and Beryllium Compounds	input				
	A04	Bismuth and Bismuth Compounds	input				
	A11	Nickel and Nickel Compounds	input				
	A13	Selenium and Selenium Compounds	input				
	A16	Magnesium	input				
	B07	Vinyl Chloride Polymer (PVC)	input		150.000	Sleeve	Drainage material
	B08	Brominated Flame Retardants	input				
	C05	Phthalates	input		120.000	Sleeve	Plasticizer
	D01	Copper and Copper Compounds	input		20.000	Lead terminal	Main ingredient
	D02	Gold and Gold Compounds	input				
	D03	Palladium and Palladium Compounds	input				
	D04	Silver and Silver Compounds	input				
	C99	Other	input				

Fill in this part

OK CANCEL

-Enter in the same way for multiple substances contained

-When entry is complete click "OK."



Copper and Copper Compounds	input		20.000	Lead terminal	Main ingredient
Gold and Gold Compounds	input				
Palladium and Palladium Compounds	input				
Silver and Silver Compounds	input				
Other	input				

Click→ OK CANCEL

-You will be returned to the Basic Information Survey screen.

(g) If responding by substance name:
Click “input” for the breakdown substances of the substance group concerned and enter the breakdown.

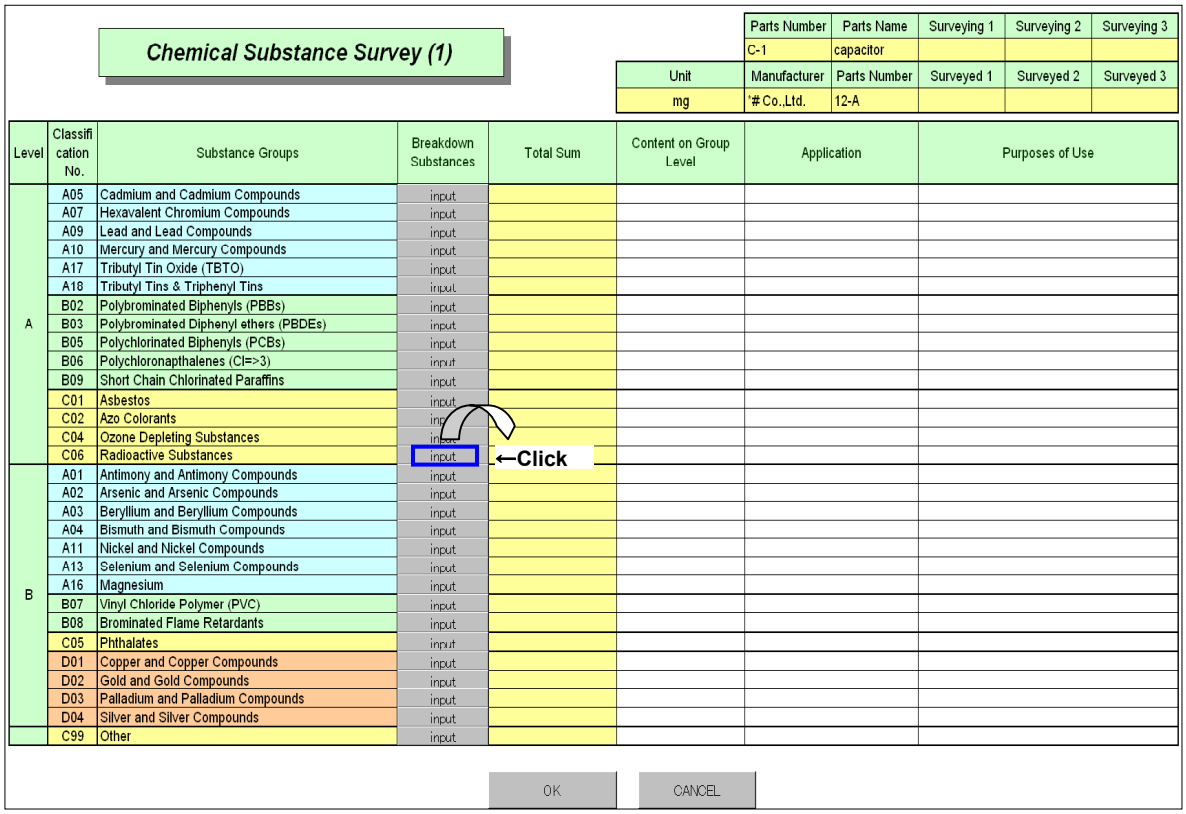
Note: If you have already made an entry by substance group, you do not need to enter a sample substance.

[Entry Example]Attachment 6: For “Sample Amount Contained Calculations”, Part Component Unit Examples

: Enter substances contained in order.

-Enter antimony trioxide and antimony:

Click “input” for (substance group) antimony and antimony compounds



Chemical Substance Survey (1)

Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
C-1	capacitor			
Unit	**Manufacturer**	**Parts Number**	**Surveyed 1**	**Surveyed 2**	**Surveyed 3**
mg	'# Co.,Ltd.	12-A			

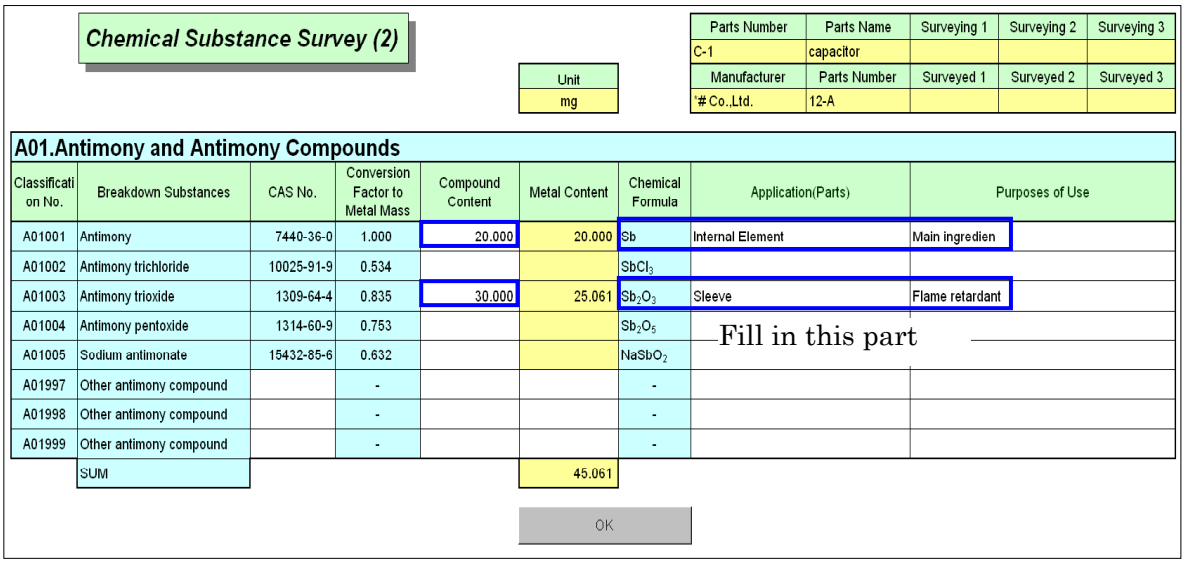
Level	Classification No.	Substance Groups	Breakdown Substances	Total Sum	Content on Group Level	Application	Purposes of Use
A	A05	Cadmium and Cadmium Compounds	input				
	A07	Hexavalent Chromium Compounds	input				
	A09	Lead and Lead Compounds	input				
	A10	Mercury and Mercury Compounds	input				
	A17	Tributyl Tin Oxide (TBTO)	input				
	A18	Tributyl Tins & Triphenyl Tins	input				
	B02	Polybrominated Biphenyls (PBBs)	input				
	B03	Polybrominated Diphenyl ethers (PBDEs)	input				
	B05	Polychlorinated Biphenyls (PCBs)	input				
	B06	Polychloronapthalenes (Cl=>3)	input				
	B09	Short Chain Chlorinated Paraffins	input				
	C01	Asbestos	input				
	C02	Azo Colorants	input				
	C04	Ozone Depleting Substances	input				
	C06	Radioactive Substances	input				
B	A01	Antimony and Antimony Compounds	input				
	A02	Arsenic and Arsenic Compounds	input				
	A03	Beryllium and Beryllium Compounds	input				
	A04	Bismuth and Bismuth Compounds	input				
	A11	Nickel and Nickel Compounds	input				
	A13	Selenium and Selenium Compounds	input				
	A16	Magnesium	input				
	B07	Vinyl Chloride Polymer (PVC)	input				
	B08	Brominated Flame Retardants	input				
	C05	Phthalates	input				
	D01	Copper and Copper Compounds	input				
	D02	Gold and Gold Compounds	input				
	D03	Palladium and Palladium Compounds	input				
	D04	Silver and Silver Compounds	input				
	C99	Other	input				

←Click

OK CANCEL

-Enter amount contained, application, and purpose of use, and click “OK.”

*If the compound weight (30 mg) is entered for antimony trioxide, the antimony amount contained will be calculated automatically from the composition ratio.



Chemical Substance Survey (2)

Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
C-1	capacitor			
Manufacturer	**Parts Number**	**Surveyed 1**	**Surveyed 2**	**Surveyed 3**
'# Co.,Ltd.	12-A			

Unit
mg

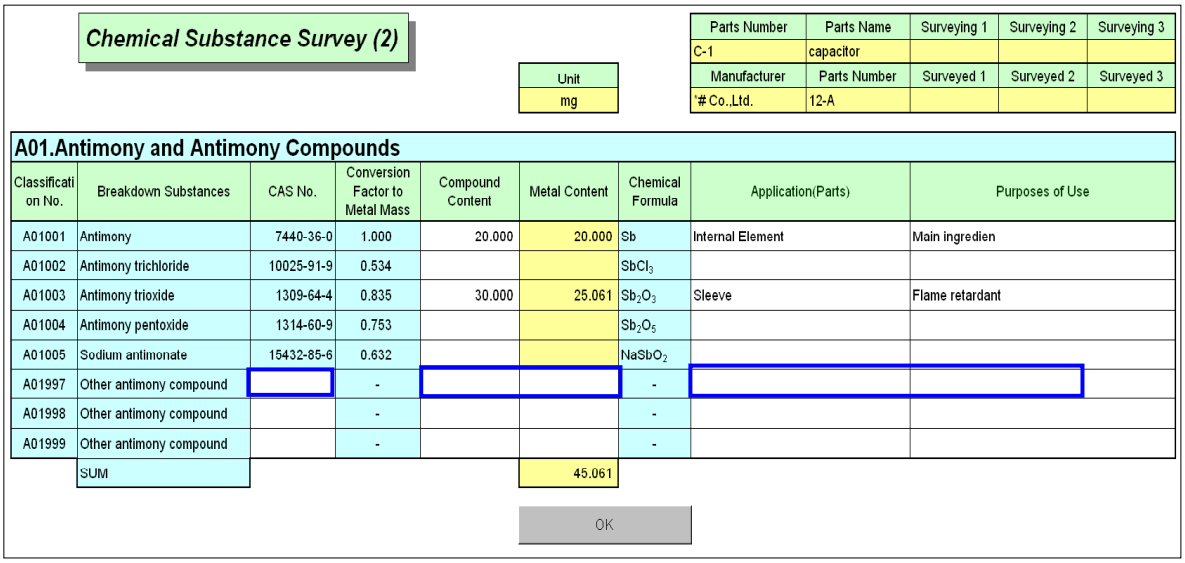
A01.Antimony and Antimony Compounds

Classification No.	Breakdown Substances	CAS No.	Conversion Factor to Metal Mass	Compound Content	Metal Content	Chemical Formula	Application(Parts)	Purposes of Use
A01001	Antimony	7440-36-0	1.000	20.000	20.000	Sb	Internal Element	Main ingredien
A01002	Antimony trichloride	10025-91-9	0.534			$SbCl_3$		
A01003	Antimony trioxide	1309-64-4	0.835	30.000	25.061	Sb_2O_3	Sleeve	Flame retardant
A01004	Antimony pentoxide	1314-60-9	0.753			Sb_2O_5		
A01005	Sodium antimonate	15432-85-6	0.632			$NaSbO_2$		
A01997	Other antimony compound		-			-		
A01998	Other antimony compound		-			-		
A01999	Other antimony compound		-			-		
	SUM				45.061			

Fill in this part

OK

-When entering other antimony compounds, enter the CAS No., amount contained, application, and purpose of use. Enter the antimony amount contained for the amount contained at that time. CAS No. need only be provided if available.



Chemical Substance Survey (2)

Unit
mg

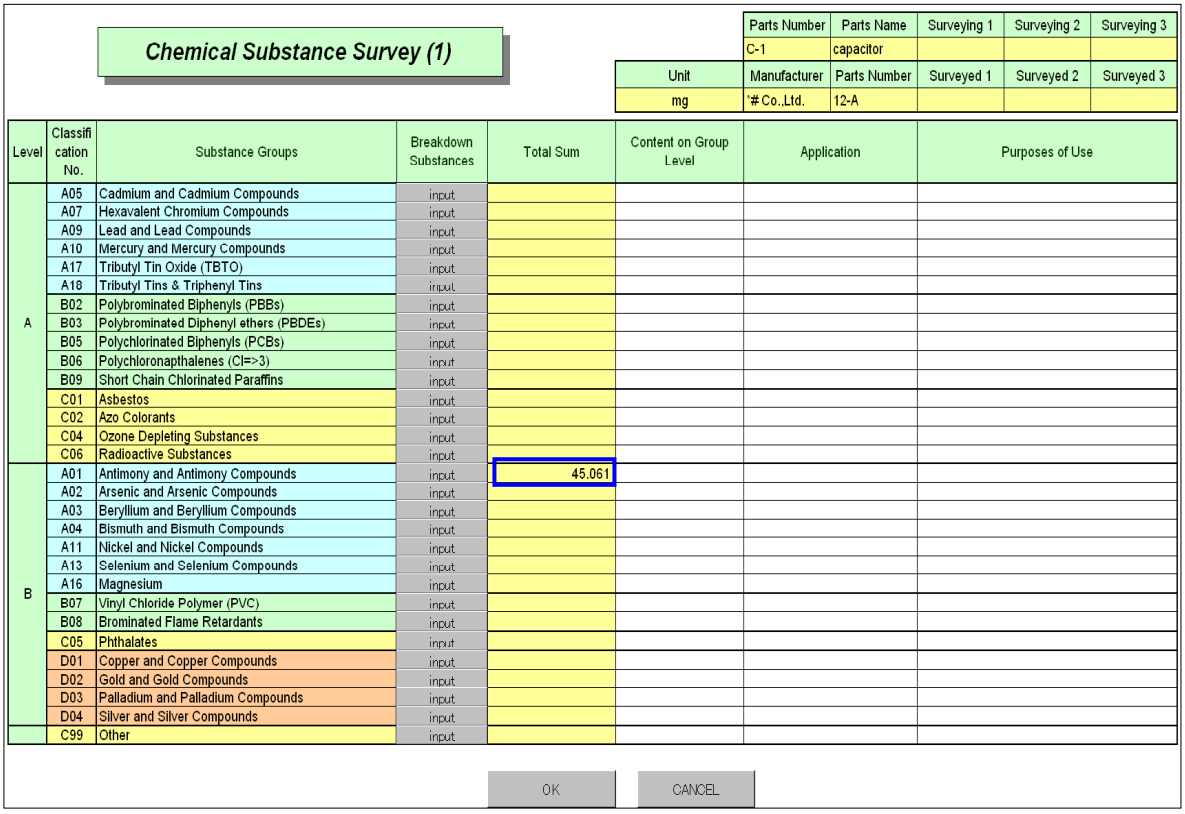
Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
C-1	capacitor			
Manufacturer	Parts Number	Surveyed 1	Surveyed 2	Surveyed 3
'# Co.,Ltd.	12-A			

A01.Antimony and Antimony Compounds

Classification No.	Breakdown Substances	CAS No.	Conversion Factor to Metal Mass	Compound Content	Metal Content	Chemical Formula	Application(Parts)	Purposes of Use
A01001	Antimony	7440-36-0	1.000	20.000	20.000	Sb	Internal Element	Main ingredien
A01002	Antimony trichloride	10025-91-9	0.534			$SbCl_3$		
A01003	Antimony trioxide	1309-64-4	0.835	30.000	25.061	Sb_2O_3	Sleeve	Flame retardant
A01004	Antimony pentoxide	1314-60-9	0.753			Sb_2O_5		
A01005	Sodium antimonate	15432-85-6	0.632			$NaSbO_2$		
A01997	Other antimony compound		-			-		
A01998	Other antimony compound		-			-		
A01999	Other antimony compound		-			-		
	SUM				45.061			

OK

-When the entries are complete, click the “OK” button. The calculated figures will be shown in the total sum.



Chemical Substance Survey (1)

Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
C-1	capacitor			
Unit	Manufacturer	Parts Number	Surveyed 1	Surveyed 2	Surveyed 3
mg	'# Co.,Ltd.	12-A			

Level	Classification No.	Substance Groups	Breakdown Substances	Total Sum	Content on Group Level	Application	Purposes of Use
A	A05	Cadmium and Cadmium Compounds	input				
	A07	Hexavalent Chromium Compounds	input				
	A09	Lead and Lead Compounds	input				
	A10	Mercury and Mercury Compounds	input				
	A17	Tributyl Tin Oxide (TBTO)	input				
	A18	Tributyl Tins & Triphenyl Tins	input				
	B02	Polybrominated Biphenyls (PBBs)	input				
	B03	Polybrominated Diphenyl ethers (PBDEs)	input				
	B05	Polychlorinated Biphenyls (PCBs)	input				
	B06	Polychloronapthalenes (Cl=>3)	input				
	B09	Short Chain Chlorinated Paraffins	input				
	C01	Asbestos	input				
	C02	Azo Colorants	input				
	C04	Ozone Depleting Substances	input				
	C06	Radioactive Substances	input				
B	A01	Antimony and Antimony Compounds	input	45.061			
	A02	Arsenic and Arsenic Compounds	input				
	A03	Beryllium and Beryllium Compounds	input				
	A04	Bismuth and Bismuth Compounds	input				
	A11	Nickel and Nickel Compounds	input				
	A13	Selenium and Selenium Compounds	input				
	A16	Magnesium	input				
	B07	Vinyl Chloride Polymer (PVC)	input				
	B08	Brominated Flame Retardants	input				
	C05	Phthalates	input				
	D01	Copper and Copper Compounds	input				
	D02	Gold and Gold Compounds	input				
	D03	Palladium and Palladium Compounds	input				
	D04	Silver and Silver Compounds	input				
	C99	Other	input				

OK CANCEL

-Enter in the same way for the other substances contained.

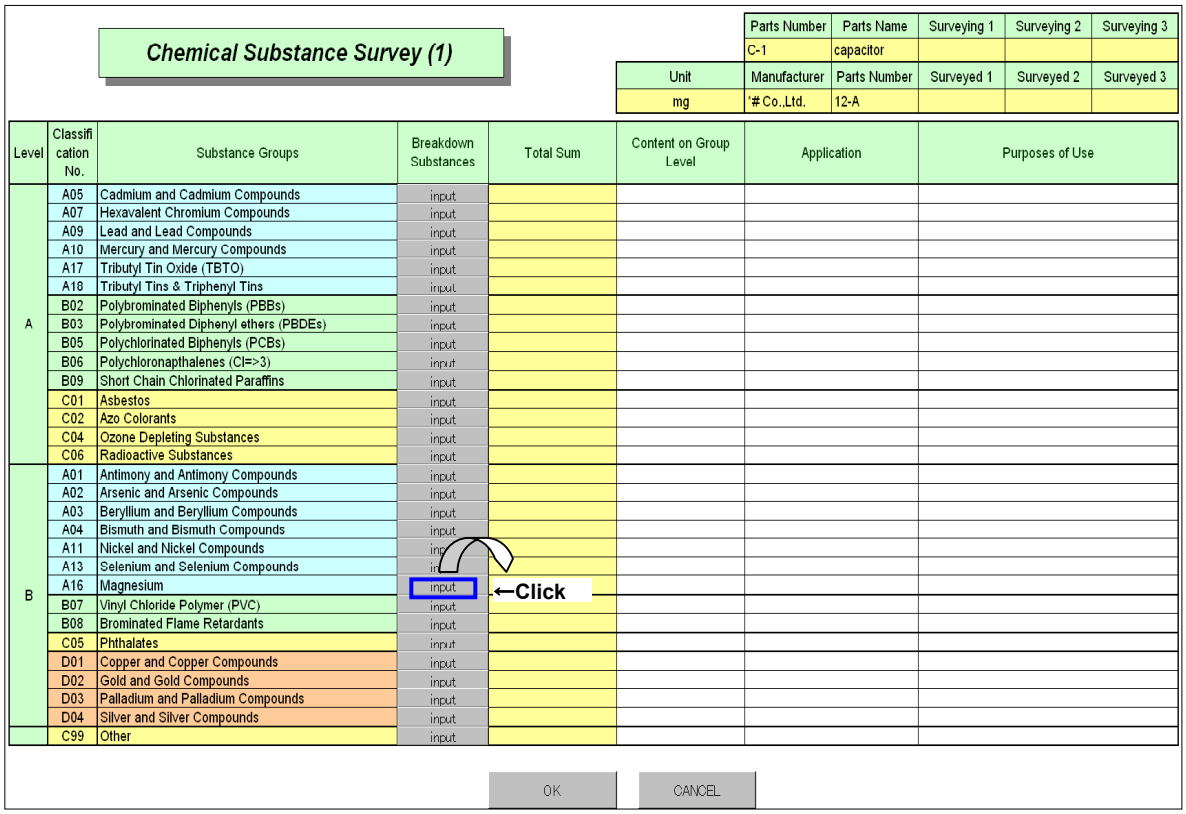
-When you have finished entering all the substances contained click “OK,” and you will be returned to the Basic Information Survey screen.

(h) When bromide flame retardants are contained (excluding PBBs and PBDEs)

(For bromide flame retardants only: Respond with either the ISO 1043-4 code or CAS No.)

-Click “input” for the breakdown substance of the bromide flame retardants in the same way as for “(7)If you responding by substance name:” above. (Example not provided as the screen is the same as for (g))

Note: Do not make an entry in the substance group response column



Chemical Substance Survey (1)

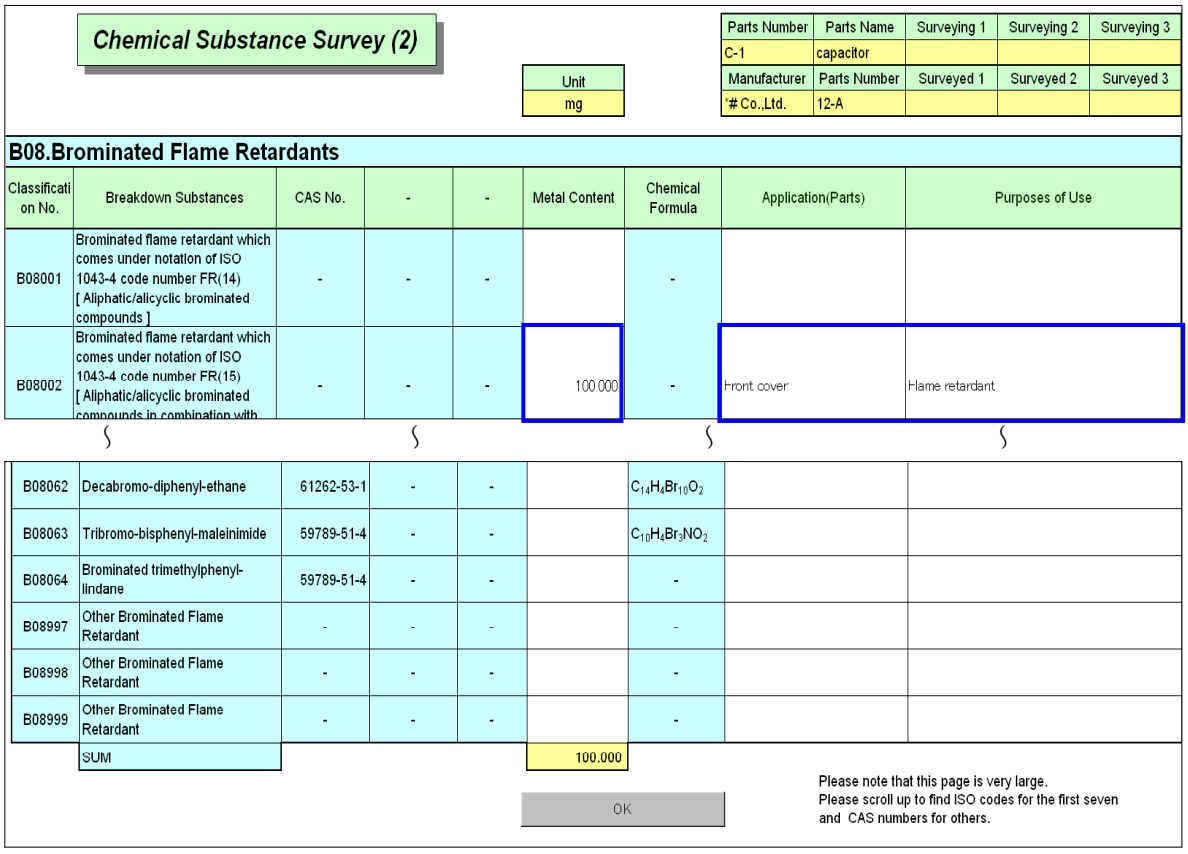
Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
C-1	capacitor			
Unit	Manufacturer	Parts Number	Surveyed 1	Surveyed 2	Surveyed 3
mg	'# Co.,Ltd.	12-A			

Level	Classification No.	Substance Groups	Breakdown Substances	Total Sum	Content on Group Level	Application	Purposes of Use
A	A05	Cadmium and Cadmium Compounds	input				
	A07	Hexavalent Chromium Compounds	input				
	A09	Lead and Lead Compounds	input				
	A10	Mercury and Mercury Compounds	input				
	A17	Tributyl Tin Oxide (TBTO)	input				
	A18	Tributyl Tins & Triphenyl Tins	input				
	B02	Polybrominated Biphenyls (PBBs)	input				
	B03	Polybrominated Diphenyl ethers (PBDEs)	input				
	B05	Polychlorinated Biphenyls (PCBs)	input				
	B06	Polychloronapthalenes (Cl=>3)	input				
	B09	Short Chain Chlorinated Paraffins	input				
	C01	Asbestos	input				
	C02	Azo Colorants	input				
	C04	Ozone Depleting Substances	input				
	C06	Radioactive Substances	input				
B	A01	Antimony and Antimony Compounds	input				
	A02	Arsenic and Arsenic Compounds	input				
	A03	Beryllium and Beryllium Compounds	input				
	A04	Bismuth and Bismuth Compounds	input				
	A11	Nickel and Nickel Compounds	input				
	A13	Selenium and Selenium Compounds	input				
	A16	Magnesium	input				
	B07	Vinyl Chloride Polymer (PVC)	input				
	B08	Brominated Flame Retardants	input				
	C05	Phthalates	input				
	D01	Copper and Copper Compounds	input				
	D02	Gold and Gold Compounds	input				
	D03	Palladium and Palladium Compounds	input				
	D04	Silver and Silver Compounds	input				
	C99	Other	input				

←Click

OK CANCEL

-Enter the amount contained / application / purpose of use in the column for either the ISO 1043-4 code or the CAS No. and click “OK.”



Chemical Substance Survey (2)

Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
C-1	capacitor			
Manufacturer	Parts Number	Surveyed 1	Surveyed 2	Surveyed 3
'# Co.,Ltd.	12-A			

Unit
mg

B08.Brominated Flame Retardants

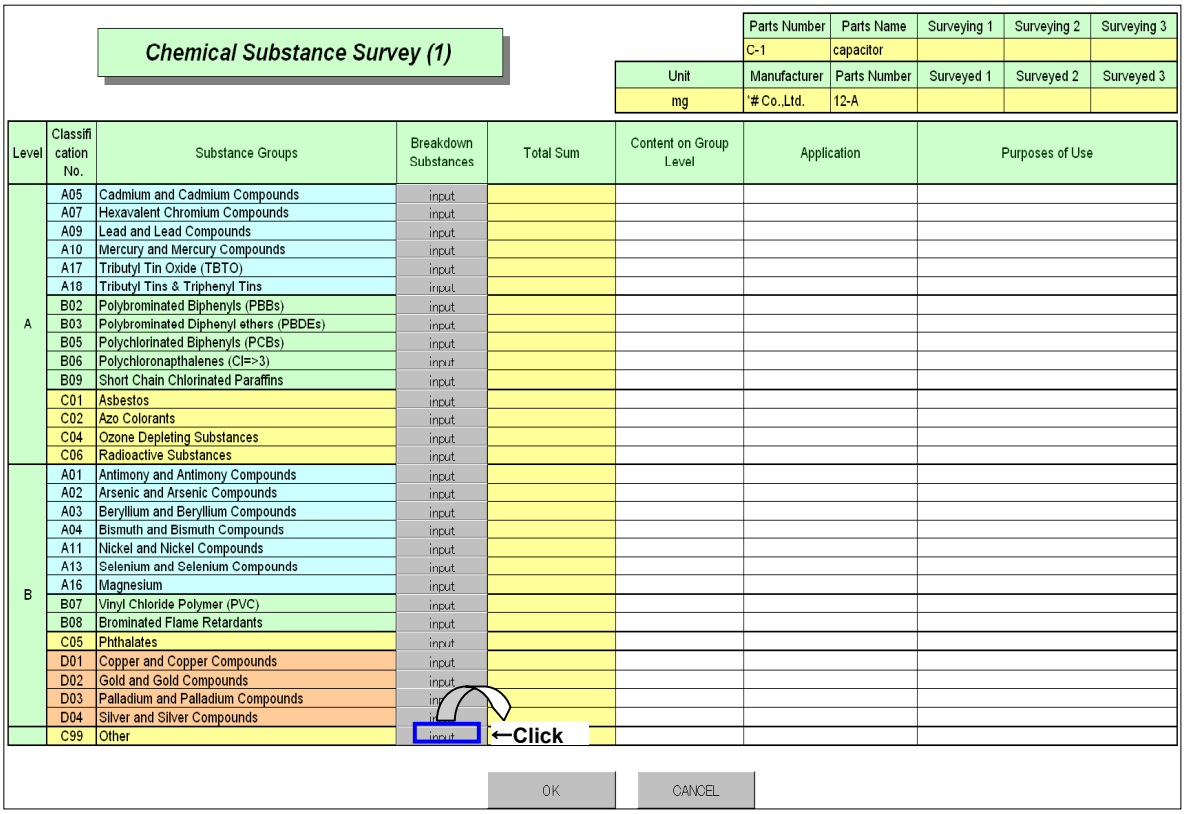
Classification No.	Breakdown Substances	CAS No.	-	-	Metal Content	Chemical Formula	Application(Parts)	Purposes of Use
B08001	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	-	-	-		-		
B08002	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with	-	-	-	100.000	-	Front cover	Flame retardant
B08062	Decabromo-diphenyl-ethane	61262-53-1	-	-		$C_{14}H_4Br_{10}O_2$		
B08063	Tribromo-bisphenyl-maleinimide	59789-51-4	-	-		$C_{10}H_4Br_3NO_2$		
B08064	Brominated trimethylphenyl-lindane	59789-51-4	-	-		-		
B08997	Other Brominated Flame Retardant	-	-	-		-		
B08998	Other Brominated Flame Retardant	-	-	-		-		
B08999	Other Brominated Flame Retardant	-	-	-		-		
	SUM				100.000			

OK

Please note that this page is very large.
Please scroll up to find ISO codes for the first seven and CAS numbers for others.

(i) If a survey request was made for a substance other than those in the Survey Substance List (Table 1)

-Click “input” for C99 Other, If responding by substance name.



Chemical Substance Survey (1)

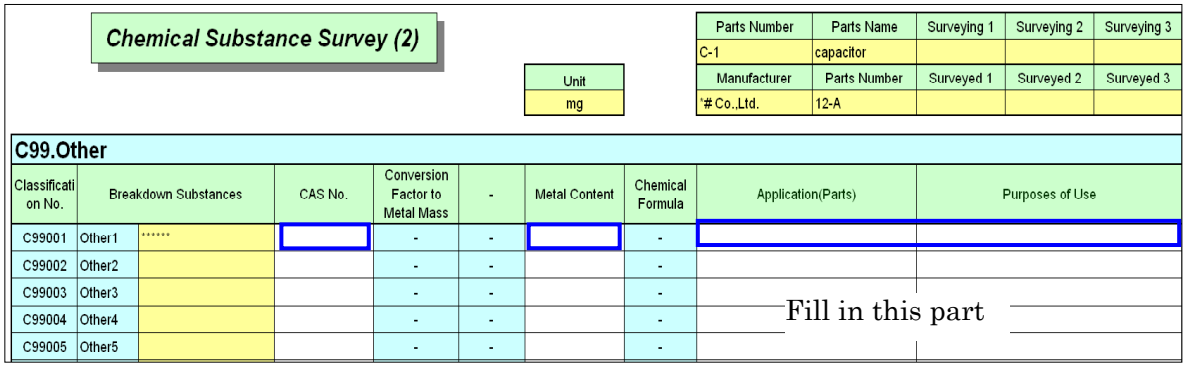
Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
C-1	capacitor			
Unit	Manufacturer	Parts Number	Surveyed 1	Surveyed 2	Surveyed 3
mg	'# Co.,Ltd.	12-A			

Level	Classification No.	Substance Groups	Breakdown Substances	Total Sum	Content on Group Level	Application	Purposes of Use
A	A05	Cadmium and Cadmium Compounds	input				
	A07	Hexavalent Chromium Compounds	input				
	A09	Lead and Lead Compounds	input				
	A10	Mercury and Mercury Compounds	input				
	A17	Tributyl Tin Oxide (TBTO)	input				
	A18	Tributyl Tins & Triphenyl Tins	input				
	B02	Polybrominated Biphenyls (PBBs)	input				
	B03	Polybrominated Diphenyl ethers (PBDEs)	input				
	B05	Polychlorinated Biphenyls (PCBs)	input				
	B06	Polychloronapthalenes (Cl=>3)	input				
	B09	Short Chain Chlorinated Paraffins	input				
	C01	Asbestos	input				
	C02	Azo Colorants	input				
	C04	Ozone Depleting Substances	input				
	C06	Radioactive Substances	input				
B	A01	Antimony and Antimony Compounds	input				
	A02	Arsenic and Arsenic Compounds	input				
	A03	Beryllium and Beryllium Compounds	input				
	A04	Bismuth and Bismuth Compounds	input				
	A11	Nickel and Nickel Compounds	input				
	A13	Selenium and Selenium Compounds	input				
	A16	Magnesium	input				
	B07	Vinyl Chloride Polymer (PVC)	input				
	B08	Brominated Flame Retardants	input				
	C05	Phthalates	input				
	D01	Copper and Copper Compounds	input				
	D02	Gold and Gold Compounds	input				
	D03	Palladium and Palladium Compounds	input				
	D04	Silver and Silver Compounds	input				
	C99	Other	input				

←Click

OK CANCEL

-Enter the CAS No. / amount contained / application / purpose of use / substance name in the C99001 Other1 column.



Chemical Substance Survey (2)

Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
C-1	capacitor			
Manufacturer	Parts Number	Surveyed 1	Surveyed 2	Surveyed 3
'# Co.,Ltd.	12-A			

Unit
mg

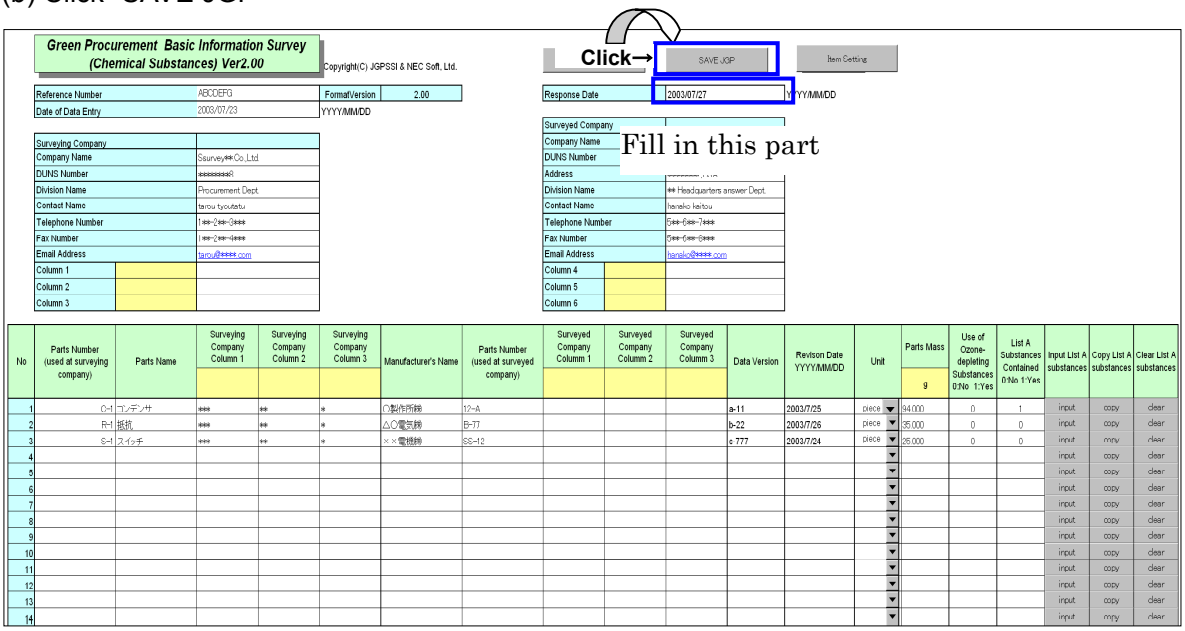
C99.Other

Classification No.	Breakdown Substances		CAS No.	Conversion Factor to Metal Mass	-	Metal Content	Chemical Formula	Application(Parts)	Purposes of Use
C99001	Other1	******		-	-		-		
C99002	Other2			-	-		-		
C99003	Other3			-	-		-		
C99004	Other4			-	-		-		
C99005	Other5			-	-		-		

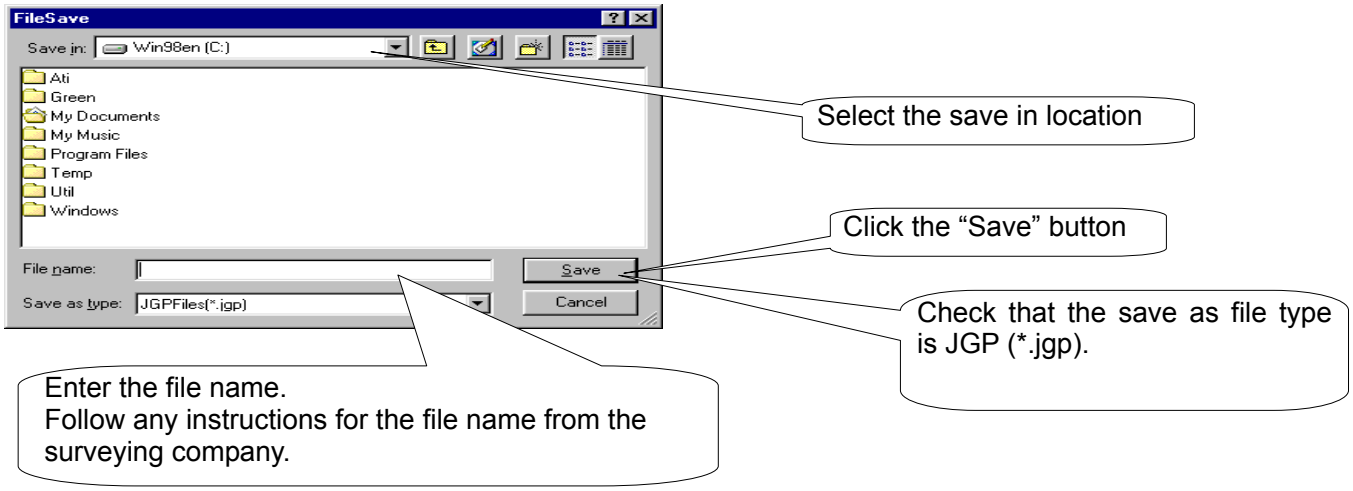
Fill in this part

3. Saving the information entered in the survey response format (JGP file)

(1) When all the entries are complete prepare to save the file.
(a) Enter the response date.
(b) Click “SAVE JGP”

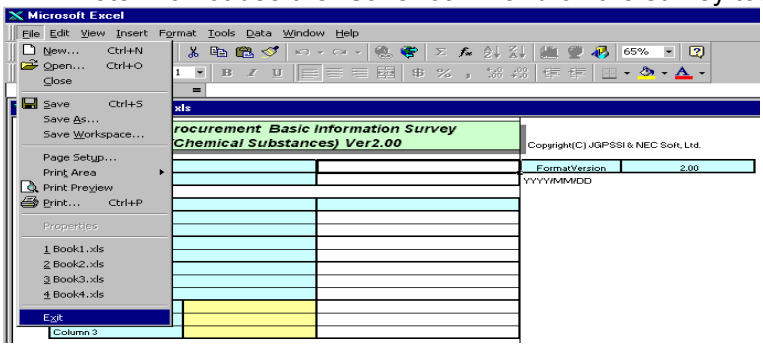


(2) Save in the JGP file format.
(a) Check the “Save as type” is JGP (*.jgp)
(b) Select the save in location, enter the file name, and click the “Save” button.
Please follow any instructions for the file name made by the surveying company.

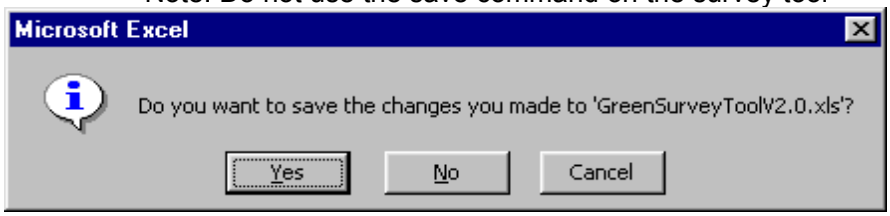


4. Closing the survey tool.

(1) Select “File” then “Close” or “Exit” from the menu bar.
Note: Do not use the “Save” command on the survey tool.



(a) If the screen below is displayed, click “No.”
Note: Do not use the save command on the survey tool*



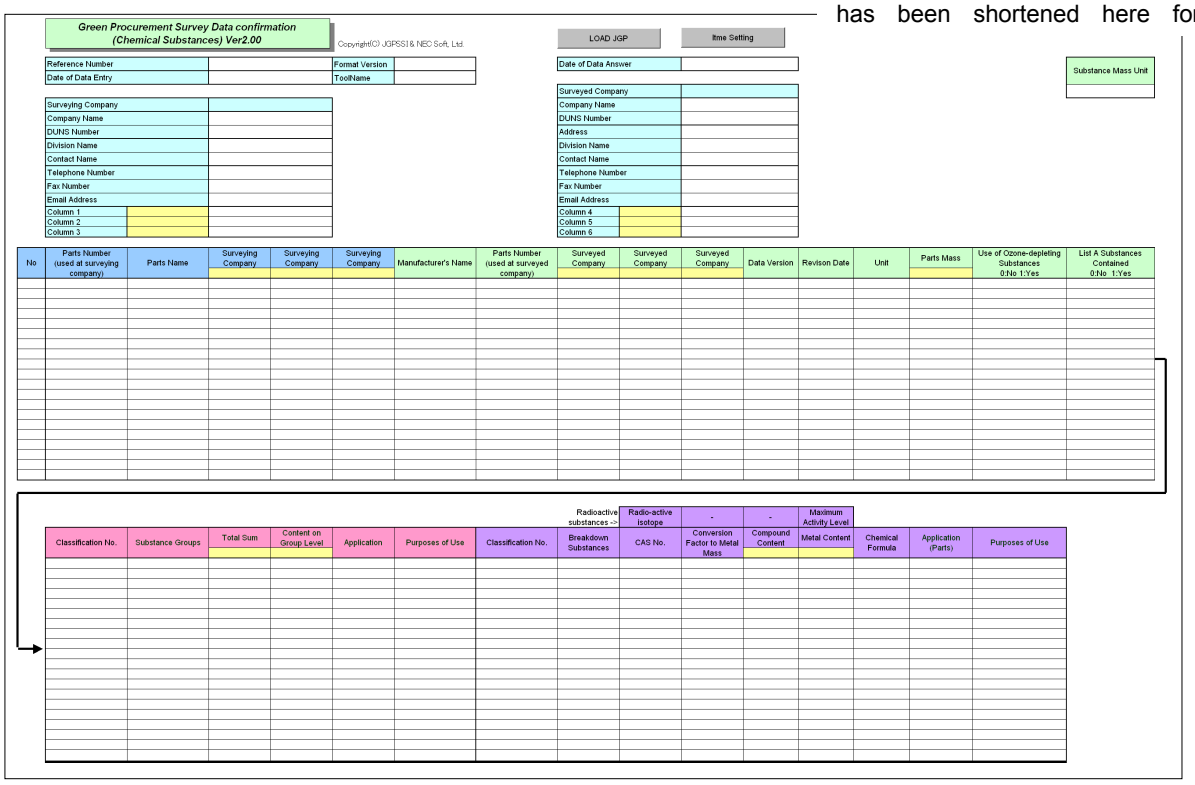
* If you need to exit or save before finishing your entries, click “SAVE JGP” to save your work. To resume making entries, click “LOAD JGP” to reload the data.

5. Confirming the response data

Your prepared JGP file can be checked using the Data Confirmation Tool.
(1) Double-click the Data Confirmation Tool V2.0.xls
(2) Click the “LOAD JGP” button. Select the JGP file that you want to check, and click “Open.” The data concerned will be loaded into the data confirmation tool.

*If it is necessary to revise any data, reload the JGP file into the survey tool and then make the changes.

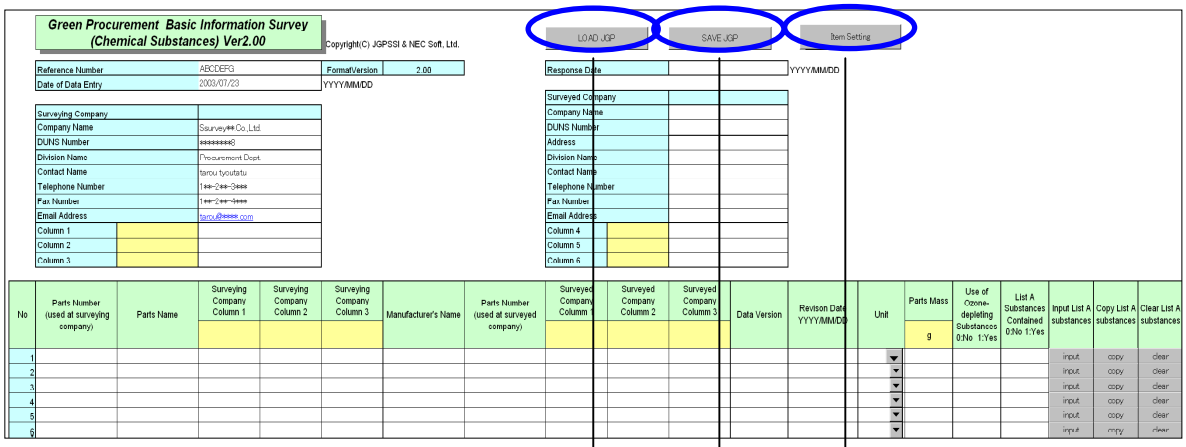
*The actual Excel screen is much wider. It has been shortened here for easier



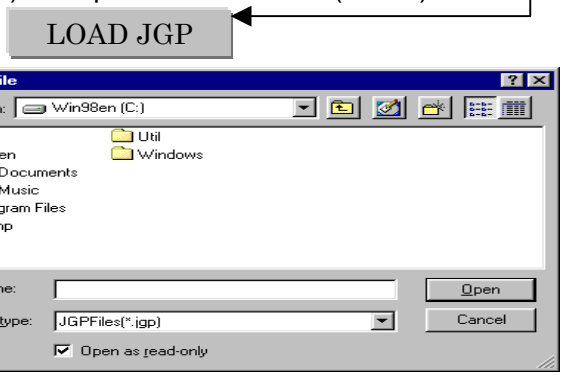
6. Other

(1) Screen sequence 1

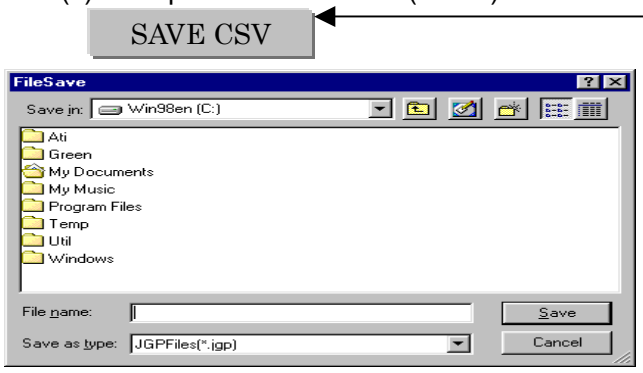
(a) Basic Information Survey (Chemical Substances)



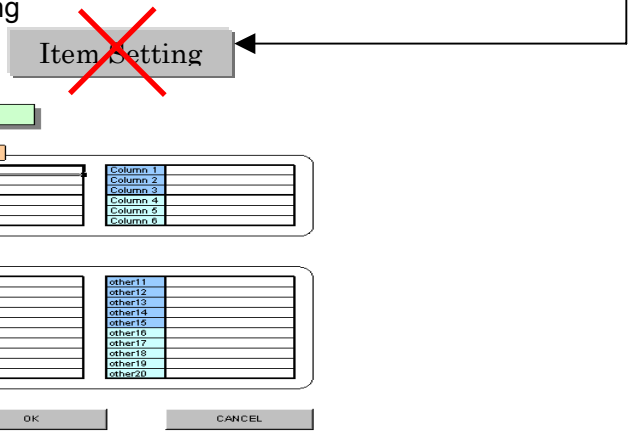
(b) File specification screen (LOAD)



(c) File specification screen (SAVE)



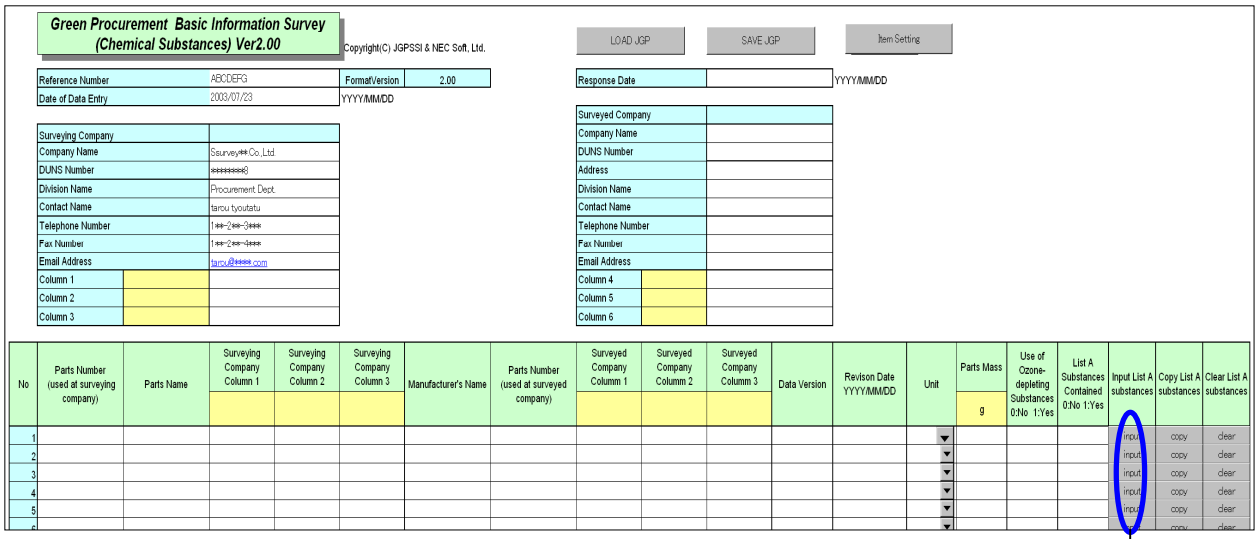
(d) Item Setting



Note: Since the surveying company uses its own special settings, please do not change them.
Information set on this screen is not reflected in the JGP file.

(2) Screen sequence 2

(a) Basic Information Survey (Chemical Substances)



Green Procurement Basic Information Survey (Chemical Substances) Ver2.00

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LOAD JGP | SAVE JGP | Item Setting

Reference Number	ABCDEFG	Format Version	2.00
Date of Data Entry	2003/07/23	YYYY/MM/DD	

Surveying Company	
Company Name	Ssurvey## Co.,Ltd.
DUNS Number	********3
Division Name	Procurement Dept.
Contact Name	tarou tyoutatu
Telephone Number	1**-2**-3***
Fax Number	1**-2**-3***
Email Address	tarou@*****.com
Column 1	
Column 2	
Column 3	

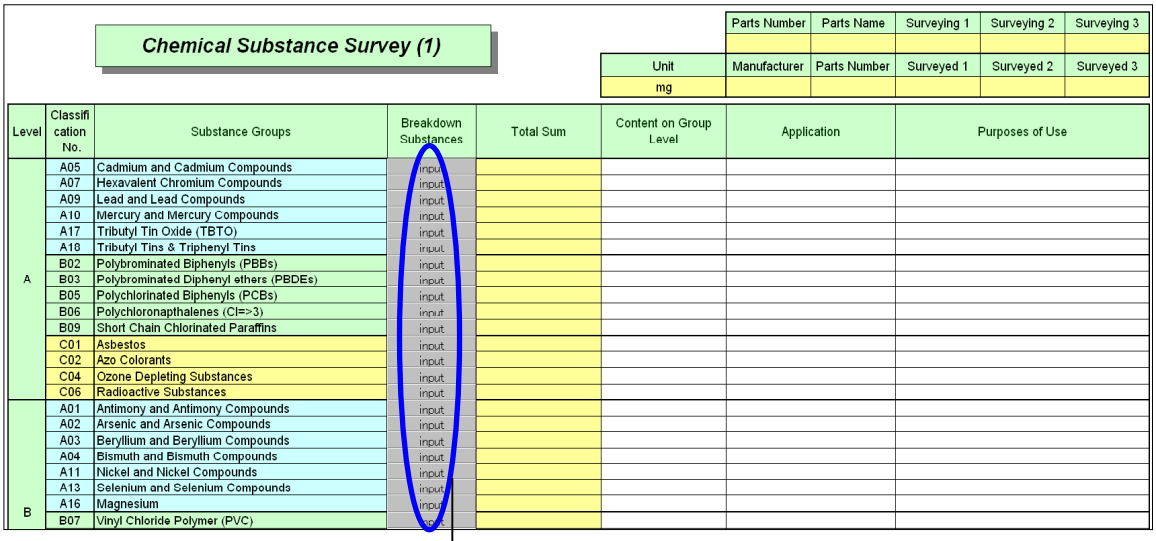
Response Date		YYYY/MM/DD

Surveyed Company	
Company Name	
DUNS Number	
Address	
Division Name	
Contact Name	
Telephone Number	
Fax Number	
Email Address	
Column 4	
Column 5	
Column 6	

No	Parts Number (used at surveying company)	Parts Name	Surveying Company Column 1	Surveying Company Column 2	Surveying Company Column 3	Manufacturer's Name	Parts Number (used at surveyed company)	Surveyed Company Column 1	Surveyed Company Column 2	Surveyed Company Column 3	Data Version	Revison Date YYYY/MM/DD	Unit	Parts Mass g	Use of Ozone-depleting Substances 0:No 1:Yes	List A Substances Contained 0:No 1:Yes	Input List A substances	Copy List A substances	Clear List A substances
1																	input	copy	clear
2																	input	copy	clear
3																	input	copy	clear
4																	input	copy	clear
5																	input	copy	clear

(b) Chemical Substance Survey (1)

input



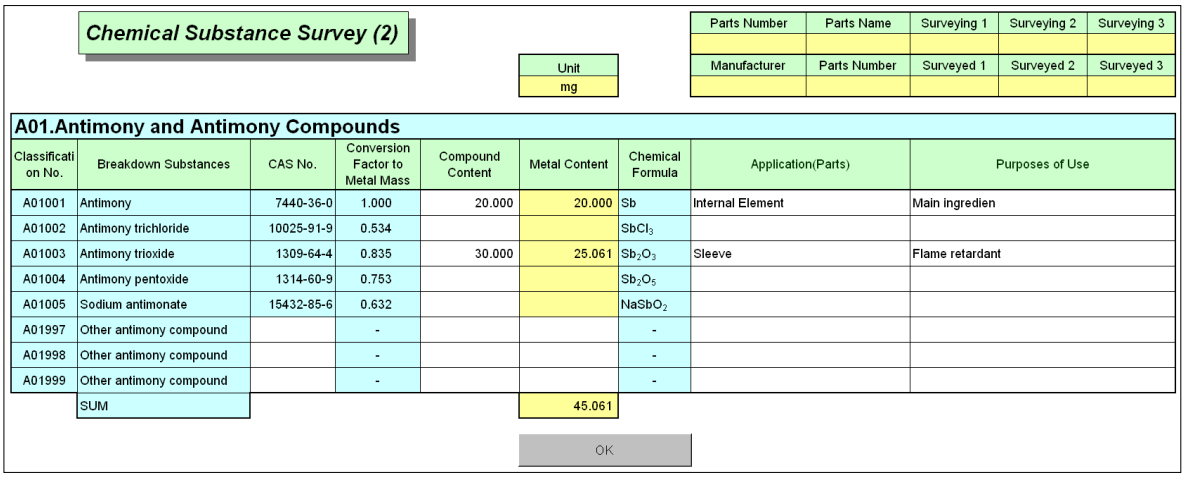
Chemical Substance Survey (1)

Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
Unit	**Manufacturer**	**Parts Number**	**Surveyed 1**	**Surveyed 2**	**Surveyed 3**
mg					

Level	Classification No.	Substance Groups	Breakdown Substances	Total Sum	Content on Group Level	Application	Purposes of Use
A	A05	Cadmium and Cadmium Compounds	input				
	A07	Hexavalent Chromium Compounds	input				
	A09	Lead and Lead Compounds	input				
	A10	Mercury and Mercury Compounds	input				
	A17	Tributyl Tin Oxide (TBTO)	input				
	A18	Tributyl Tins & Triphenyl Tins	input				
	B02	Polybrominated Biphenyls (PBBs)	input				
	B03	Polybrominated Diphenyl ethers (PBDEs)	input				
	B05	Polychlorinated Biphenyls (PCBs)	input				
	B06	Polychloronapthalenes (Cl=>3)	input				
	B09	Short Chain Chlorinated Paraffins	input				
	C01	Asbestos	input				
	C02	Azo Colorants	input				
	C04	Ozone Depleting Substances	input				
	C06	Radioactive Substances	input				
B	A01	Antimony and Antimony Compounds	input				
	A02	Arsenic and Arsenic Compounds	input				
	A03	Beryllium and Beryllium Compounds	input				
	A04	Bismuth and Bismuth Compounds	input				
	A11	Nickel and Nickel Compounds	input				
	A13	Selenium and Selenium Compounds	input				
	A16	Magnesium	input				
	B07	Vinyl Chloride Polymer (PVC)	input				

(c) Chemical Substance Survey (2)

input



Chemical Substance Survey (2)

Parts Number	Parts Name	Surveying 1	Surveying 2	Surveying 3
Manufacturer	**Parts Number**	**Surveyed 1**	**Surveyed 2**	**Surveyed 3**

Unit
mg

A01.Antimony and Antimony Compounds

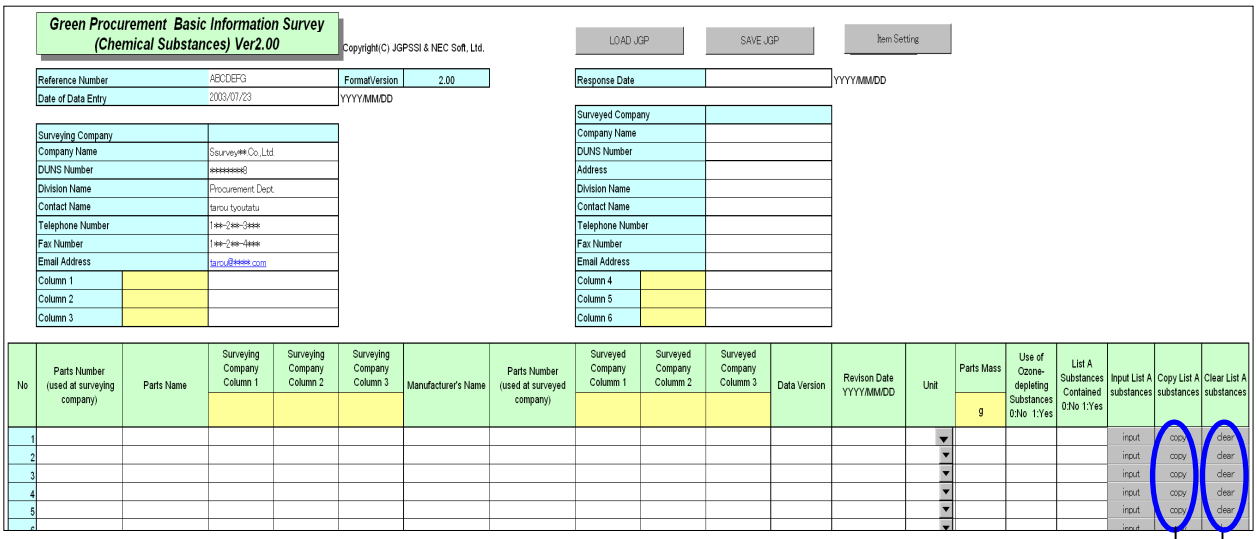
Classification No.	Breakdown Substances	CAS No.	Conversion Factor to Metal Mass	Compound Content	Metal Content	Chemical Formula	Application(Parts)	Purposes of Use
A01001	Antimony	7440-36-0	1.000	20.000	20.000	Sb	Internal Element	Main ingredien
A01002	Antimony trichloride	10025-91-9	0.534			$SbCl_3$		
A01003	Antimony trioxide	1309-64-4	0.835	30.000	25.061	Sb_2O_3	Sleeve	Flame retardant
A01004	Antimony pentoxide	1314-60-9	0.753			Sb_2O_5		
A01005	Sodium antimonate	15432-85-6	0.632			$NaSbO_2$		
A01997	Other antimony compound		-			-		
A01998	Other antimony compound		-			-		
A01999	Other antimony compound		-			-		
	SUM				45.061			

OK

*The sheet will differ depending on the substance type specified in the Chemical Substance Survey (1)

(3) Other functions

(a) Basic Information Survey (Chemical Substances)



(b) Copy List A substances

copy

[Function]

To copy the deeper layer data in this row (i.e. those in Chemical Substance Survey (1) and (2)) to those for (an)other row(s)

Data in the Basic Information Survey sheet cannot be copied.

[Method]

Click the “copy” button and specify the row number to paste the data.

n : Copy to row n

n-m : Copy to rows n to m

n- : Copy to rows n to 100

-m : Copy from row 1 to row m

(c) Clear List A substances

clear

[Function]

To clear the deeper layer data in this row (i.e. those in Chemical Substance Survey (1) and (2))

Data in the Basic Information Survey sheet cannot be cleared