

**ULVAC**

**IV. List of  
Surveyed Chemical Substances  
under Voluntary Control  
for Green Procurement**

**ULVAC Group**  
**Ver.2, Dec. 2006**

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## List of Surveyed Chemical Substances under Voluntary Control for Green Procurement

For the purposes of chemical substance control, ULVAC Group developed its Green Procurement Standard in November 2003, and started distributing it to its suppliers. To respond to the significant measures introduced by the national and international legislative enhancement lead most notably by the enforcement of the EU's RoHS Directive in 2003, ULVAC Group is asking its suppliers to take steps to replace, reduce, or determine chemical substances contained in their supplies. ULVAC Group has classified the targeted substances in the three categories defined below, and listed them in the List of Surveyed Chemical Substances under Voluntary Control for Green Procurement

- Level I “substances prohibited from use or attachment” are substances that have a significant impact on human health or ecosystems, the use of which is prohibited or limited by national or international law, or prohibited by ULVAC Group’s voluntary controls, and consequently prohibited from use or attachment (hereafter, use) in the Group’s products.
- Level II “chemical substances under voluntary control” are substances that do not fall into the Level I category, are targeted by national or international law or by ULVAC Group’s voluntary control, and the use of which should be reduced gradually. Includes some chemical substances where a deadline for elimination has been designated.

Table 1-1 Level I: Substances Prohibited from Use or Attachment

No	Substance (Substance Group) under Voluntary Control	CAS No.	Prohibited from use as of	Typical purposes for use
I -1	Azo compounds (Scope: surface that comes in contact with human body) * Note 1.	—	Immediately	Electrical wire coating (pigments, paints, colourings)
I -2	Aldrin	309-00-2	Immediately	Wood preservatives, insect repellents, antifungal agents, paints (limited to wood-preserving, insect-repelling, or antifungal paints)
I -3	Endrin	72-20-8	Immediately	Instant-effect insecticides, insect repellents
I -4	Chlordanes	57-74-9	Immediately	Instant-effect insecticides, insect repellents, miticides, contact pesticides with toxic residue
I -5	Trichloro-fluoro-methane and other CFCs designated in the Ozone Layer Protection Law	—	Immediately	Refrigerants, foaming agents
I -6	Di- $\mu$ -oxo-di-n-butyl-stannio-hydroxyboran (DBB)	—	Immediately	—
I -7	Dibromotetrafluoroethane and other Halons designated in the Ozone Layer Protection Law	—	Immediately	Fire extinguishants
I -8	Dibromofluoromethane and other HBFCs designated in the Ozone Layer Protection Law	—	Immediately	Fire extinguishants
I -9	Dioxins	—	Immediately	—
I -10	Dieldrin	60-57-1	Immediately	Wood preservatives, insect repellents, antifungal agents, paints (limited to wood-preserving, insect-repelling, or antifungal paints)
I -11	4-nitrodiphenyl and its salts	—	Immediately	Synthetic intermediates
I -12	Bis(chloromethyl) ether	542-88-1	Immediately	—
I -13	Bis (tributyl tin) = oxido	56-35-9	Immediately	Preservatives, antifungal agents, paints (limited to paints used to prevent shellfish, algae, and other aquatic life forms from attaching themselves to surfaces)
I -14	Bromochloromethane	74-97-5	Immediately	—

No	Substance (Substance Group) under Voluntary Control	CAS No.	Prohibited from use as of	Typical purposes for use
I - 15	Hexachlorobenzene	118-74-1	Immediately	Germicides, antifungal agents, dirt-proof agents, synthetic intermediates
I - 16	Pentachlorophenyl	87-86-5	Immediately	Insecticides, insect repellents, agricultural chemicals (including intermediates)
I - 17	Polychloroterphenyl (PCT)	61788-33-8	Immediately	Electrical insulating materials
I - 18	Polychloronaphthalene (number of chlorines greater than 3)	1321-65-9, 1335-88-2, 1321-64-8	Immediately	Lubricating oils, paints, plastic stabilants (electric characteristics, fire resistance, water resistance, sterility), electrical insulating materials, flame retardants
I - 19	Polychlorobiphenyl (PCB)	1336-36-3	Immediately	Condensers, transformer oils
I - 20	Monomethyldichlorodiphenylmethane	—	Immediately	—
I - 21	Monomethyldibromodiphenylmethane (DBBT)	99688-47-8	Immediately	—
I - 22	Monomethyltetrachlorodiphenylmethane	76253-60-6	Immediately	—
I - 23	DDT	789-02-06, 50-29-3	Immediately	Wood preservatives, insect repellents, antifungal agents, paints (limited to wood-preserving, insect-repelling, or antifungal paints)
I - 24	Bromomethane (Methyl bromide) *Note 2	74-83-9	Immediately	Germicides, antifungal agents, dirt-proof agents, insecticides, insect repellents, herbicides, synthetic intermediates, food fumigants, soil fumigants
I - 25	Organic chlorine substances of which the acceptable levels in underground water are specified in Water Quality Pollution Prevention Law * Note 3		Immediately	
I - 26	Asbestos (Amosite, crocidolite, actinolite, anthophyllite, chrysotile, tremolite etc)		Immediately	Insulating materials, bulking agents, friction materials, electrical insulating materials, fillers, pigments/paints(indicated as talc (containing asbestos fibre-like materials) on ingredient list) , thermal insulators
I - 27	Short-chain paraffin chloride (limited to carbon chain length of 10-13)		Immediately	Vinyl chloride plasticisers, flame retardants
I - 28	Tributyl tins (TBTs), Triphenyltins (TPTs)		Immediately	Stabilants, antioxidant/anti-aging substances, antiseptic/antifungal agents, dirt-proof agents
I - 29	Radioactive Substances *Note 4		Immediately	Thorium for optical glass (lens)
I - 30	HCFCs specified in Ozone Layer Protection Law		Immediately	Refrigerants, foaming agents

\* Note 1: Cases where azo compounds are used in products that are presumed to continuously come into contact with the human body may be split into specific amines listed in Table 2 according to the contact points with the human body.

\* Note 2: Totally eliminated on January 1, 2005 with the Montreal Protocol of Substances that Deplete the Ozone Layer.

\* Note 3: Organic Chlorine Substances for Which Acceptable Levels in Underground Water Are Specified in Water Quality Pollution Prevention Law See Table 3 for details

\* Note 4: Radioactive Substances See Table 4 for details

Table 1-2 Level II: Chemical Substances under Voluntary Control

No	Substance (Substance Group) under Voluntary Control	CAS No.	RoHS Applicability Target	Typical purposes for use
II-1	Cadmium and its compounds * Note 5	—	End of June, 2008	Pigments, anticorrosive surface treatment, battery cell materials, optical materials, stabilants, stabilisation of electric contacts, photosensitive resistor/semiconductor (CdS), plating materials, pigments for resins, fluorescent materials for optical glass, electrodes, soldering materials, contacts, galvanisation, contact protection, vinyl chloride stabilants
II-2	Hexavalent chromium compounds * Note 5	—	End of June 2008	Pigments, paints, inks, catalysts, plating, anticorrosive surface treatment, dyes, paint dryers, surface treatment (chromating, paint adherence improvement), rust prevention
II-3	Mercury and its compounds * Note 5	—	End of June 2008	Fluorescent materials, materials in electrical contacts, colouring pigments, anticorrosive agents, high-efficiency light emitting materials, antibacterial treatment
II-4	Lead and its compounds * Note 5	—	End of June 2008	Rubber curing agents, pigments, paints, lubricants, plastic stabilants, battery cell materials, free-cutting alloys, optical materials, X-ray shielding, electrical/mechanical soldering materials, rubber curing agents, highly dielectric materials, resin stabilants, glass dopant, plating materials, alloys, resin additives
II-5	PBBs * Note 5	—	End of June 2008	Flame retardants
II-6	PBDEs * Note 5	—	End of June 2008	Flame retardants

No	Substance (Substance Group) under Voluntary Control	CAS No.	Elimination Target	Typical purposes for use
II-7	Acrylonitrile	107-13-1	—	Pigments, paints, synthetic resins, synthetic fibres
II-8	Acetaldehyde	75-07-0	—	Fuels, photosensitive materials, dyes, solvents, cleaning agents, germicides, antifungal agents, dirt-proof agents, preservatives, drugs, pharmaceutical intermediates, Synthetic resins
II-9	Antimony and its compounds	—	—	Pigments, paints, catalysts, lead-free soldering materials, stabilants, n-type dopant, III-V semiconductor substrates (GaSb), flame retardants, resistance membrane moderator, polymerised catalysts
II-10	Ethylene oxide	75-21-8	—	Flavouring substances, surfactants, detergents, germicides, antifungal agents, dirt-proof agents, synthetic resins, synthetic intermediates, textile treatment agents
II-11	N, N'-Ethylene Bis (Dithiocarbamic acid) Manganese (Maneb)	8018-01-7	—	Germicides
II-12	Xylene	1330-20-7	—	—
II-13	Chrome and trivalent chrome compounds	—	—	—
II-14	Chloroethylene (Vynil chloride monomer)	75-01-4	—	Synthetic resins, synthetic intermediates
II-15	Chloroform (Trichloromethane)	67-66-3	—	Solvents, cleaning agents, drugs, pharmaceutical intermediates, synthetic intermediates, cooling medium, aniline detection
II-16	Cobalt and its compounds	—	—	Magnetic materials, pigments, paints, plating, hardening
II-17	Bromic flame retardants (excluding PBB and PBDE)	—	—	Flame retardants, package forming and sealing
II-18	Selenium and its compounds	—	—	Photosensitive materials, pigments, paints, catalysts, oxidising agents, semiconductor materials, photoreceptive elements, photoelectric cell
II-19	Thallium and its compounds	7440-28-0	—	Germicide, antifungal agent, dirt-proof agents, alloys
II-20	Tellurium and its compounds	13494-80-9	—	Special steel, catalysts, glass, ceramic colouring agents
II-21	Toluene — —	108-88-3	—	—
II-22	Nickel and its compounds	—	—	Pigments, paints, black colouring agents for zinc and brass, optical thin membranes, battery cell materials, conductor printing paste, semiconductor material, surface treatment, magnetic thin membranes, plating, electrodes, catalysts, alloys
II-23	Halogenated resin additives * Note 6	—	—	—
II-24	Bismuth and its compounds	—	—	Lead-free soldering materials, soldering materials
II-25	Arsenic and its inorganic compounds	—	—	Glass discolouring, pigments, paints, dyes, glass defoaming agents, n-type dopant, III-V semiconductor substrates (GaAs), flame retardants, copper foil surface treatment, ingredient of GaAs
II-26	1,3-Butadiene	106-99-0	—	Synthetic resins, synthetic intermediates

No	Substance (Substance Group) under Voluntary Control	CAS No.	Elimination Target	Typical purposes for use
II-27	Ether phthalate – –	–	–	Plasticisers, dyes, pigments, paints, inks, adhesives, lubricants
II-28	Beryllium and its compounds	–	–	Ceramics, alloys, catalysts, self-hardening alloys, alloys for springs, soldering materials
II-29	Benzylidene trichloride	98-07-7	–	Dyes, agricultural chemicals (including intermediates), drugs, pharmaceutical intermediates, synthetic intermediates, stabilants, antioxidant/anti-aging substances, UV absorbing agents
II-30	Benzene	71-43-2	–	Solvents, cleaning agents, synthetic intermediates
II-31	Polyvinyl Chloride –	9002-86-2	–	Electrical insulation, chemical resistance, transparency, coating materials
II-32	Formaldehyde	50-00-0	–	Surfactants, germicides, antifungal agents, dirt-proof agents, agricultural chemicals (including intermediates), preservatives, synthetic resins, synthetic intermediates, reducing agents for plating solution
II-33	Magnesium	7439-95-4	–	Alloys, optical materials, optical thin membranes, structural materials, aluminium alloys (Germalmine), magnesium alloys, fatty acid salt accelerators, desiccants, rust-preventive plating materials, thermistor materials
II-34	Manganese and its compounds	–	–	Stainless steel, deoxidation of and additive to special steel, additive to non-ferrous metals, welding rod coating
II-35	Inorganic cyanide compounds (excluding complex salts and cyanates) – –	–	–	Pigments, paints, plating, plastic materials, plating agents
II-36	9-methoxy-7H-furo [3,2-g][1] benzopyran-7-one (methoxsalen)	298-81-7	–	Drugs, pharmaceutical intermediates
II-37	Organic tin compounds (excluding Bis (tributyltin) = oxido)	–	–	–
II-38	Sulphur hexafluoride	2551-62-4	–	Semiconductor crystallisation, electric insulating equipment
II-39	HFCs specified in Global Warming Prevention Law	–	–	Refrigerants, foaming agents
II-40	PFCs specified in Global Warming Prevention Law	–	–	Cleaning agents, semiconductor crystallisation

\* Note 5: Table 5 Displays the Ulvac Co., Ltd. regulatory value (concentration) of RoHS Designated Substances

Table 6 Displays the use of excluded RoHS designated substances

\* Note 6: See Table 7 for details.

Table 2: Azo Compounds (Amines that should not be generated from splitting of Azo groups)

No	Substance	CAS No.	Chemical Formula
I - 1- 1	o-anisidine	90-04-0	C7H9NO
2	2-naphthylamine	91-59-8	C10H9N
3	3,3'-dichlorobenzidine	91-94-1	C12H10Cl2N2
4	4-aminobiphenyl	92-67-1	C12H11N
5	Benzidine	92-87-5	C12H12N2
6	o-toluidine	95-53-4	C7H9N
7	4-chloro-o-toluidine	95-69-2	C7H8ClN
8	2,4-toluenediamine	95-80-7	C7H10N2
9	o-aminoazotoluene	97-56-3	C14H15N3
10	5-nitro-o-toluidine	99-55-8	C7H8N2O2
11	3,3'-dichloro-4, 4'-diaminodiphenylmethane	101-14-4	C13H12Cl2N2
12	4,4'-methylenedianiline	101-77-9	C13H14N2
13	4,4'-diaminodiphenylether	101-80-4	C12H12N2O
14	p-chloroaniline	106-47-8	C6H6ClN
15	o-dianisidine	119-90-4	C14H16N2O2
16	3,3'-dimethylbenzidine	119-93-7	C14H16N2
17	2-methoxy-5-methylaniline	120-71-8	C8H11NO
18	2,4,5-trimethylaniline	137-17-7	C9H13N
19	4,4'-thiodianiline	139-65-1	C12H12N2S
20	4-methoxy-m-phenylenediamine	615-05-4	C7H10N2O
21	3,3'-dimethyl-4, 4'-diaminodiphenylmethane	838-88-0	C15H18N2

Table 3 Organic Chlorine Substances for Which the Acceptable Levels in Underground Water Are Specified in Water Quality Pollution Prevention Law

No	Substance	CAS No.	Chemical Formula
I - 25 -1	Dichloromethane (methylene chloride)	75-09-2	CH2CL2
-2	Tetrachloromethane; Carbon tetrachloride	56-23-5	CCL4
-3	1,2-Dichloroethane	107-06-2	C2H4CL2
-4	1,1-Dichloroethylene; Vinylidene chloride	75-35-4	C2H2CL2
-5	cis-1, 2-Dichloroethylene	156-59-2	C2H2CL2
-6	1,1,1-Trichloroethane	71-55-6	C2H3CL3
-7	1,1,2-Trichloroethane	79-00-5	C2H3CL3
-8	Trichloroethylene	79-01-6	C7H10N2
-9	Tetrachloroethylene	127-18-4	C14H15N3
-10	1,3-Dichloropropene	542-75-6	C7H8N2O2

Table 4 Radioactive Substances

No	Substance	CAS No.	Chemical Formula
I - 35 -1	Uranium	7440-61-1	U
-2	Plutonium	—	Pu
-3	Radon	10043-92-2	Rn
-4	Americium	—	Am
-5	Thorium	7440-29-1	Th
-6	Other radioactive substances	—	—

Table 5 Regulatory Values for RoHS Designated Substances

No	Chemical Substances under Voluntary Control (Group)	Regulatory Value
II - 1	Cadmium and its compounds	< 100ppm
II - 2	Hexavalent chromium compounds	<1000ppm
II - 3	Mercury and its compounds	<1000ppm
II - 4	Lead and its compounds	<1000ppm
II - 5	PBBs	<1000ppm
II - 6	PBDEs	<1000ppm

Note) The values above are Ulvac Co., Ltd., regulatory values. Some Ulvac Group regulatory values may be lower than the above values. Please check with each company in the Ulvac Group.

Table 6 Uses of Excluded RoHS Designated Substances

Our company accepts the following as uses and has excluded them

No.	Excluded Use
1	Mercury that is contained in small fluorescent lamps that does not exceed 5mg per lamp
2	Mercury used in general straight fluorescent tubes that do not exceed the following substances
	– halophosphate 10mg
	– triphosphate with normal lifetime 5mg
	– triphosphate with long lifetime 8mg
3	Mercury contained in straight fluorescent tubes that are used for special purposes
4	Mercury contained in other lamps that are not specified by this appendix
5	Lead contained in cathode ray tubes, electronic components, and fluorescent tube glass.
6	0.35% by weight lead included in steel material as alloys, 0.4% by weight lead included in aluminum materials, 4% by weight lead in copper
7	– Lead contained in high-melting point solder (ie, tin/lead solder alloys with a lead content of greater than 85%)
	– Lead contained in servers, storage, and storage array systems (excluded by 2010)
	– Lead contained in solder used in switches, signals, network infrastructure devices used for communications, and communication control networks
	– Lead contained in electronic ceramic parts (eg, piezo electronic devices)
8	Cadmium and its compounds contained in electrical contacts that are excluded from use in the “EU’s Directive 76/769/EEC <sup>11</sup> relating to restrictions on the marketing and use of certain dangerous substances and preparations” revised directive 91/338/EEC <sup>12</sup> . Cadmium and its compounds contained in cadmium surface treatment.
9	Hexavalent chromium used as rust prevention in the carbon steel cooling system of absorption type refrigerators.
10	Decabromodiphenyl ether for polymer use
11	Lead contained in lead-bronze bearings and bushings
12	Lead used in regulated pin connector systems
13	Lead used in the coating of heat conductor module cooling
14	Lead and cadmium contained in optical and filter glass
15	Lead in solder with three or more elements and a weight of between 80% and 85% used in connections between microprocessor pins and packages
16	Lead in solder used to form an electric connection between semiconductor die within IC flip, chip, and packages, and the carrier
17	Lead in silica clad straight incandescent lamps
18	Halogenated lead used as the photoradiation material for high intensity discharge (HID) lamps within copying machines
19	Lead contained as an activator in the fluorescent material contained within special lamps used in the optical hardening process for diazo copy machines, lithography, bug capturers, and SMS ((Sr, Ba) 2MgSiO <sub>2</sub> 07:Pb), as well as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb) fluorescent powder (less than 1% by weight lead) in discharge lamps used as tanning lamps
20	Lead in the main PbSn-Hg amalgam used in ultra-small energy efficient lamps (ESL)
21	Lead oxide used to join the front of the low profile fluorescent lamp and rear substances in liquid crystal displays (LCD)
22	Spare parts (exchange parts, repaired parts) and components that contain RoHS designated substances and have been used in products that have been already been marketed and recycled, refurbished, or have been modified for long life

Table 7 Halogenated Resin Additives

No	Substance	CAS No.	Chemical Formula
II - 27 -1	1,1,2,2-Tetrabromoethane	79-27-6	C <sub>2</sub> H <sub>2</sub> Br <sub>4</sub>
-2	Tetrabromobisphenol A	79-94-7	C <sub>15</sub> H <sub>12</sub> Br <sub>4</sub> O <sub>2</sub>
-3	Hexabromobenzene	87-82-1	C <sub>6</sub> Br <sub>6</sub>
-4	Tris (2-chloroethyl) phosphate	115-96-8	C <sub>6</sub> H <sub>12</sub> Cl <sub>3</sub> PO <sub>4</sub>
-5	1,2,5,6,9,10-hexabromocyclodecane	3194-55-6	C <sub>12</sub> H <sub>18</sub> Br <sub>6</sub>
-6	Polytetrafluoroethylene	—	(C <sub>2</sub> F <sub>4</sub> ) <sub>n</sub>
-7	Tetrabromobisphenol a bis (dibromopropyl ether)	21850-44-2	C <sub>21</sub> H <sub>20</sub> O <sub>2</sub> Br <sub>8</sub>
-8	Other halogenated resin additives	—	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub>

Table 8 Laws, Directives, etc. Taken into Consideration for Selection of Chemical Substances under Voluntary Control

1	Law Concerning Reporting, etc. of Release of Specific Chemical Substances to the Environment and Promotion of the Improvement of their Management (PRTR Law)
2	Occupational Health and Safety Law
3	Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures (Ozone Layer Protection Law)
4	Law concerning the Promotion of Measures to Cope with Global Warming (Global Warming Prevention Law)
5	Atmospheric Pollution Prevention Law
6	Water Quality Pollution Prevention Law
7	Law concerning Examination and Regulation of Manufacture, etc. of Chemical Substances (Chemical Substance Examination Law)
8	Law for Control of Poisonous and Powerful Agents
9	Waste Management & Public Cleansing Law
10	Law Concerning Special Measures against Dioxins
11	EU's Directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations
12	EU's End-of-Life Vehicles (ELV) Directive
13	EU's Waste Electrical and Electronic Equipment (WEEE) Directive and Restriction of Hazardous Substances (RoHS) Directive
14	Basel Convention
15	OECD Joint Ordinance * Note 7
16	Montreal Protocol of Substances that Deplete the Ozone Layer

\* Note 7: Ordinance to specify wastes that Japan needs to regulate based on the Decision of the OECD Council Concerning the Transfrontier Movements of Wastes Destined for Recovery Operations

The contents of the list are subject to change due to future expansion of the body of knowledge and revisions and changes in laws and regulations. ULVAC Group will revise the List of Surveyed Chemical Substances under Voluntary Control for Green Procurement as necessary to promote activities that are most appropriate.

Please be advised that this Green Procurement Standard documentation may be revised due to changes in current laws and regulations as well as social trends.

Inquiries to:

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Or

General Administration Department

Environmental Control Section (TEL: 0467-89-2031, FAX: 0467-82-9114)

#### Revision Record of Green Procurement Standard

Version	Revised Date	Reason and Description
Ver.1.1	Nov.1, 2003	New Provision
Ver.1.2	Mar.1, 2004	IV.List of Surveyed Chemical Substances under Voluntary Control for Green Procurement Table 1-2: Level II: Chemical Substances under Voluntary Control II -48 Elimination target date "Jul 2005" has been Changed to "Jul 2004".
Ver.2	Dec.1, 2006	IV.List of Surveyed Chemical Substances under Voluntary Control for Green Procurement 1) Table 1-1: "Bromomethane", "Organic Chlorine Substances for Which Acceptable Levels in Underground Water Are Specified in Water Quality Pollution Prevention Law", "Short-chain paraffin chloride", "Tributyl tins (TBTs), Triphenyltins (TPTs)", "Halogenated Resin Additives", and "Trichloro-fluoro-methane and other HCFCs designated in the Ozone Layer Protection Law" have been changed from Level II to Level I, with use prohibited effective immediately. 2) Table 1-1: "Asbestos (excluding Level I asbestos: Amosite and Crocidolite)" has been changed from Level II to Level I, with the use of all asbestos prohibited effective immediately. 3) Table 1-2: The elimination date for "Cadmium and its compounds", "Hexavalent chromium compounds", "Mercury and its compounds", "Lead and its compounds", "PBBs", and "PBDEs" has been changed. 4) Table 4: Ulvac Co., Ltd.'s regulatory values have been listed for RoHS Designated Substances. 5) Table 5: The use of products containing excluded RoHS Designated Substances has been listed. 6) Table 6:The Use of products excluded RoHS Designated Substances has been listed. 7) Inquiries to: The inquiry "TEL" and "FAX" numbers have been changed.