



Mitsubishi Electric Group

# Chemical Substance Control List

 **MITSUBISHI ELECTRIC CORPORATION**

Corporate Environmental Sustainability Group

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## Mitsubishi Electric Chemical Substance Control List

At the Mitsubishi Electric Group, in November 2001, the Green Procurement Standards (environmental risk substances edition) were prepared for the purpose of controlling chemical substances. Added in 2003 was information for the six substances specified under the RoHS (Restriction of Hazardous Substances) Directive, while the Green Procurement and Investigation Target Chemical Substance List was divided into four levels described below, with requests made to substitute and remove the chemical substances contained in products being delivered, as well as conduct investigations of the contents. Recently, in consideration of extension of chemical restriction in the world, the following revisions were made in the contents, with those revisions going into operation from May 2008. Furthermore, substances determined in the Joint Industry Guidelines (JIG) \*1 published in 2005 by the Japan Green Procurement Survey Standardization Initiative and the Electric Industries Association of America shall be controlled in accordance with this Chemical Substance List.

- Level I “Prohibition Substances” are restricted from not only use but also being contained and adhesion in products under domestic and international laws or voluntary ban by Mitsubishi Electric Group.
- Level II “Reduction substances” are those chemical substances except Level I substances that under domestic and international laws must have their content reduced or whose use Mitsubishi Electric Group has voluntarily limited. This also includes substances that will be included in prohibited substances within a given time frame.
- Level III “Quantitatively grasping substances” consist of Type I chemical substances determined under the Pollutant Release and Transfer Register (PRTR) Law except Level I and Level II substances, and volatile organic compounds (VOC) that Mitsubishi Electric Group undertake to reduce atmospheric emissions in consideration of “Air Pollution Control Law” amended on May 26, 2004 in Japan.
- Level IV “Precious metals substances” are managed in order to utilize effectively as re-resources.

### Table 1-1 Level I: Prohibition Substances

NO	Substances that Pose Risk To the Environment (Group)	CAS No.	JIG levels	JGPSSI Substance Group Type No.	Examples of General Applications
I-2	Asbestos	—	A	CO1	Insulators, Fillers, Anti-friction materials, Electric insulators, Pigments, Paints (ingredients include talc and asbestos fiber substances), Heat insulators
I-3	Aldrin	309-00-2	—	—	Antiseptics for woods, Insecticides, Bug repellants, Anti-molds, Paints (only for antiseptic, moth-proofing and anti-molding uses)
I-4	Endrin	72-20-8	—	—	Insecticides, Bug repellants
I-5	Bromomethane (methyl bromide)	74-83-9	A	CO4	Bactericides, Anti-molds, Antipollution agents, Insecticides, Bug repellants, Herbicides, Bactericides, Synthetic intermediates, Food fumigating agents, Soil fumigating agents
I-6	Chlordanes	57-74-9	—	—	Insecticides, Bug repellants, Anti-mite agents, Residual-type chemicals toxic upon contact
I-7	CFC group including chlorotrifluoromethane and the like stipulated in the Ozone Layer Protection Law	—	A	CO4	Refrigerants, Foaming agents
I-8	Dibutyltin hydrogen borate (DBB)	—	—	—	—
I-9	Halon group including dibromotetrafluoromethane and the like stipulated in the Ozone Layer Protection Law	—	A	CO4	Fire retardants
I-10	HBFC group including dibromofluoromethane and the like stipulated in the Ozone Layer Protection Law	—	A	CO4	Fire retardants
I-11	Dioxins	—	—	—	—
I-12	Dieldrin	60-57-1	—	—	Antiseptics for woods, Insecticides, Bug repellants, Anti-molds, Paints (only for antiseptic, moth-proofing and anti-molding uses)
I-13	4-nitrodiphenyl and its salts	—	—	—	Synthetic intermediates
I-14	Bis(chloromethyl) ethel	542-88-1	—	—	—
I-15	Bis (tributyl tin)=Oxide	56-35-9	A	A18	Antiseptics, Anti-molds, Paints (only for preventing shellfish, seaweed and other ocean organisms from attaching to materials)
I-16	Bromochloromethane	74-97-5	—	—	—
I-17	Hexachlorobenzene	118-74-1	—	—	Bactericides, Anti-molds, Antipollution agents, Synthetic intermediates
I-19	Polychloridephenol	61788-33-8	—	—	Electric insulators
I-20	Polychlorinated naphthalenes; PCNs	—	A	B06	Lubricants, Paints, Plastic stabilizers (Electrical properties, Fire resistance, Waterproof, Bacteria-proof), Electric insulating medium, Fire retardants
I-21	Polychlorinated biphenyls (PCB)	1336-36-3	A	B05	Condensers, Transformer oils
I-25	Organic chlorine chemical substances whose underground water quality standards are stipulated in the Water Pollution Control Law *2	—	—	—	—
I-26	DDT	789-02-06, 50-29-3	—	—	Antiseptics for woods, Insecticides, Bug repellants, Anti-molds, Paints (only for antiseptic, moth-proofing and anti-molding uses)
I-27	Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1-dimethylethyl)-6-(1-methylpropyl)-	3846-71-7	—	—	Ultraviolet ray deterioration preventative agent

NO	Substances that Pose Risk To the Environment (Group)	CAS No.	JIG levels	JGPSSI Substance Group Type No.	Examples of General Applications
I-28	Other Class I specified chemical substances under the Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.*3	—	—	—	—

\*1 For details, access the Japan Green Procurement Survey Standardization Initiative website. URL: [http://210.254.215.73/jeita\\_eps/green/greenTOP-eg.html](http://210.254.215.73/jeita_eps/green/greenTOP-eg.html)

\*2 See attached Table 2 for the substances. Targets are substances, preparations or solid matter (parts and products) in which the substances account for more than 0.1wt% of the weight.

\*3 For details, access the official website of the National Institute of Technology and Evaluation. URL: <http://www.safe.nite.go.jp/english/kasinn/db.html>

**Table 1-2 Level II: Reduction Substances**

NO	Substances that Pose Risk To the Environment (Group)	CAS No.	JIG levels	JGPSSI Substance Group Type No.	Examples of General Applications
II-1	Cadmium and its compounds *4, *6	—	A	A05	Pigments, Surface treatments for anticorrosion, Batteries, Electric materials, optical materials, Stabilizers, Electric contact stabilization, Photosensitive resistors, Semiconductors (CdS), Plating materials, Pigments for plastics, Fluorescent agents for optical glass, Electrodes, Soldering materials, Contacts, Zinc plating, Contact protection, Stabilizers for vinyl chloride
II-2	Chromium [VI] compounds *6	—	A	A07	Pigments, Paints, Inks, Catalysts, Plating, Surface treatments for anticorrosion, Dyes, Paint drying agents, Surface treatments (for chromate treatment and improving paint adhesion), Antirust treatments
II-3	Mercury and its compounds *6	—	A	A10	Fluorescent materials, Electrical contact materials, Coloring pigments, Anticorrosion agents, High efficiency light-emitting materials, Antibacterial treatments
II-4	Lead and its compounds *6	—	A	A09	Rubber hardening agents, Pigments, Paints, Lubricants, Plastic stabilizers, Battery materials, Free-machining alloy materials, Optical materials, X-Ray shielding, Electrical plating materials, Mechanical plating materials, Rubber vulcanizing agents, Strong dielectric materials, Resin stabilizers, Glass dopants, Plating materials, Alloy components, Resin additives
II-5	PBBs *6	—	A	B02	Fire retardants
II-6	PEDEs *6	—	A	B03	Fire retardants
II-7	Acrylonitrile	107-13-1	—	—	Pigments, Paints, Synthetic resins, Synthetic fibers
II-8	Acetaldehyde	75-07-0	—	—	Fuels, Photosensitive materials, Dyes, Solvents, Detergent agents, Bactericides, Anti-molds, antipollution agents, Antiseptics, Medicines, Medical intermediates, Synthetic resins, Synthetic intermediates, Plasticizers, Reductants
II-9	Antimony and its compounds	—	B	A01	Pigments, Paints, Catalysts, Lead-free soldering materials, Stabilizers, n-dopants, III-V semiconductor substrates (GaSb), Fire retardants, Resistive film matching agents, Polymerized catalysts
II-10	Ethylene oxide	75-21-8	—	—	Perfumes, Interface activators, Detergents, Bactericides, anti-mold, antipollution agents, Synthetic plastics, Synthetic intermediates, Fiber heat-treatment agents
II-11	Short-link chlorinated paraffin	108171-26-2	A	B09	Vinyl chloride plasticizers, Fire retardants
II-12	Manganese N,N'-ethylenebis (dithiocarbamate); Maneb	12427-38-2	—	—	—
II-13	Xylene	1330-20-7	—	—	—
II-14	Chromium and chromium (III) compounds	—	—	—	—
II-15	Chloroethylene (chlorinated vinyl monomers)	75-01-4	—	—	Synthetic resins, Synthetic intermediates
II-16	Chloroform (trichloromethane)	67-66-3	—	—	Solvents, Detergents, Medicines, Medical intermediates, Synthetic intermediates, Refrigerants, Aniline detection
II-17	Cobalt and its compounds	—	—	—	Magnetic materials, Pigments, Paints, Platings, Accelerating agents for hardener, Drying agents, Rustproof plating materials, Raw materials for thermistor
II-18	Brominated Flame Retardants (except PBB and PBDE)	—	B	B08	Fire retardants, Package molds and seals
II-19	Selenium and its compounds	—	B	A13	Photosensitive materials, Pigments, Paints, Catalysts, Oxidizing agents, Semiconductor materials, Photo-sensing devices, Photoelectric cells
II-20	Thallium and its compounds	7440-28-0	—	—	Bactericides, Anti-mite agents, antipollution agents, Alloys
II-21	Tellurium and its compounds	13494-80-9	—	—	Special steels, Catalysts, Glass, Coloring agents for pottery
II-22	Tri-N-butyltin, Tri-phenyltin	—	A	A17	Stabilizers, Oxidization, Anti-aging agents, Bactericides, anti-mold, antipollution agents
II-23	Toluene	108-88-3	—	—	—
II-24	Nickel and nickel compounds	—	B	A11	Pigments, Paints, Black brass and zinc colorants, optical thin-film materials, Conductive printing paste materials, Semiconductor materials, Surface treatments, Magnetic thin-film materials, Plating, Electrodes, Catalysts, Alloys
II-25	Halogenated resin additives *5	—	—	—	—

NO	Substances that Pose Risk To the Environment (Group)	CAS No.	JIG levels	JGPSSI Substance Group Type No.	Examples of General Applications
II-26	Bismuth and its compounds	—	B	A04	Lead-free plating materials, Plating materials
II-27	Arsenic and its inorganic compounds	—	B	A02	Glass decolorization, Pigments, Paints, Glass defoaming agents, n-dopant, III-V Semiconductor substrates (GaAs), Fire retardants
II-28	1,3-Butadiene	106-99-0	—	—	Synthetic resins, Synthetic intermediates
II-29	Phthalic acid ester	—	B	C05	Plasticizers, Dyes, Pigments, Inks, Adhesives, Lubricants
II-30	Beryllium and its compounds	—	B	A03	Ceramic raw materials, Alloys, Catalysts, Self-hardening alloy materials, Alloy materials for springs, Solder
II-31	Benzylidene =Trichloride	98-07-7	—	—	Dyes, General agricultural chemicals (including intermediate), Medicines, Medical intermediates, Stabilizers, Oxidization, Anti-aging agents, Ultraviolet ray absorbers
II-32	Benzene	71-43-2	—	—	Solvents, Detergents, Synthetic intermediates
II-33	Radioactive substances *7	—	A	C06	Optical glass (lens), Thorium
II-35	Polychlorinated vinyl	9002-86-2	B	B07	Electric insulation properties, Chemical resistance, Transparency, Coating materials
II-36	Formaldehyde	50-00-0	—	—	Interface activators, Bactericides, Anti-mold, Antipollution agents, General agricultural chemicals (including intermediates), Antiseptics, Synthetic plastics, Synthetic intermediates, Plating liquid reductants
II-37	Magnesium	7439-95-4	—	—	Alloys, Optical materials, Optical thin-film materials, Building materials, Aluminum alloys (Duralumin family), Magnesium alloys, Fatty salts
II-38	Manganese and its compounds	—	—	—	Stainless, Deoxidation and additives for special steels, Additives to nonferrous metal, Weld stick coating
II-39	Inorganic cyanide compounds (except complex salts and cyanates)	—	—	—	Pigments, Paints, Plating, Plastic raw materials, Plating agents
II-40	9-methoxy-7H-furo[3,2-g][1]benzopyran-7-one; methoxsalen	298-81-7	—	—	Chemicals, Chemical intermediates
II-41	Organic tin compounds (except Bis (Tributyl tin) =Oxide)	—	—	—	—
II-42	Sulfur Hexafluoride	2551-62-4	—	—	Semiconductor crystallization, Electric insulating devices
II-43	HCFC group stipulated in the Ozone Layer Protection Law	—	A	C04	Refrigerants, Foaming agents
II-44	HCFC group stipulated in Law Concerning Promotion of Measures To Cope With Global Warming	—	—	—	Refrigerants, Foaming agents
II-45	PFC group stipulated in Law Concerning Promotion of Measures To Cope With Global Warming	—	—	—	Detergents, Semiconductor crystallization
II-46	Other Type I Monitoring Chemical substances under the Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. *3	—	—	—	—
II-47	Azo compounds (exposed to part of human body) *8	—	A	CO2	Wire coating materials (pigment, dye, colorant)
II-48	Pentachlorohehol	87-86-5	—	—	Insecticides, Bug repellants, General agricultural chemicals (including intermediates)
II-49	Monomethyldichlorodiphenylmethane	81161-70-8	—	—	—
II-50	Monomethyldibromodiphenylmethane	99688-47-8	—	—	—
II-51	Monomethyltetrachlorodiphenylmethane	76253-60-6	—	—	—
II-52	PFOS and PFOS chlordane compounds *9	—	—	—	Semiconductor applications (antireflection coating and photo-resist), photomasks (for semiconductors and liquid crystal displays), photosensitive agent use, plating (chromium plating, etc.), foam extinguishing agents, electrical and electronic parts (printer and copy machine transfer rubber belt rollers, etc.), other.

\*4 Inclusion of cadmium and cadmium compounds (substances prohibited from use below) in supplied materials will be prohibited on the same day. Substances prohibited from use: Stabilizers used in plastics, Pigments (except glass applications), Plating, Fluorescent lamps, Paints (except glass applications), Photographic films

Allowed concentration: 100ppm (computed portion is per part of materials. For example, coating and wiring are utilized for computation of a cable.) Application range: EC (Under EEC Directives 76 and 769)

\*5 For details, refer to Table 4.

\*6 Under the RoHS Directive, inclusion banned in electrical and electronic devices marketed in EU member countries from July 1, 2006.

Products applicable under the RoHS Directive are as follows:

(1) Large electrical home appliances, (2) Small electrical home appliances, (3) IT and remote-controlled communication equipment, (4) Electronic consumer products, (5) Lighting equipment, (6) Electric tools (except those for installing large machines), (7) Toys, leisure and sporting goods, (10) Automatic vending machines, (except (8) Medical care devices and other categories, (9) Monitors and control devices)

\*7 For details refer to Table 5.

\*8 Decomposition of products that come in continuous contact with the human body and may cause the release of amine are identified in Table 3.

\*9 For information about PFOS chlordane compounds, go to the website of the Japanese Ministry of Economy, Trade and Industry. [http://www.meti.go.jp/policy/chemical\\_management/03kanri/96list.pdf](http://www.meti.go.jp/policy/chemical_management/03kanri/96list.pdf)

### Table 1-3 Level III: Quantitatively grasping substances

- Type I chemical substances determined under the PRTR Law except Level I and Level II substances on this chart.
  - Volatile organic compounds (VOC) that Mitsubishi Electric Group undertake to reduce atmospheric emissions in consideration of "Air Pollution Control Law" amended on May 26, 2004.
- For further details, please refer to our website, URL: <http://www.mitsubishielectric.co.jp/green-p/index.html>.

### Table 1-4 Level IV: Precious metals substances

- Substance information for recycling industries (valuable substance information contained in electronic equipment)

NO	Precious Metals	CAS No.	Chemical Formula
IV-1	Copper and its compounds	—	(Cu)
IV-2	Gold and its compounds	—	(Au)
IV-3	Palladium and its compounds	—	(Pd)
IV-4	Silver and its compounds	—	(Ag)

### Table 2 Organic Chlorine Chemical Substances whose Underwater Quality Standards are Stipulated by the Water Pollution Prevention Act

Substance	CAS No.	Chemical Formula
Dichloromethane (imethylene chloride)	75-09-2	CH <sub>2</sub> Cl <sub>2</sub>
Tetrachloromethane; Carbon tetrachloride	56-23-5	CCl <sub>4</sub>
1,2-Dichloroethane	107-06-2	C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>
1,1-Dichloroethylene; Vinylidene chloride	75-35-4	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>
cis-1,2-Dichloroethylene	156-59-2	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>
1,1,1-Trichloroethane	71-55-6	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>
1,1,2-Trichloroethane	79-00-5	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>
Trichloroethylene	79-01-6	C <sub>2</sub> HCl <sub>3</sub>
Tetrachloroethylene	127-18-4	C <sub>2</sub> Cl <sub>4</sub>
1,3-Dichloropropene	542-75-6	C <sub>3</sub> H <sub>4</sub> Cl <sub>2</sub>

### Table 3 Azo Compounds (Amine non-formation through dissolution of azo-base)

Substance	CAS No.	Chemical Formula
o-anisidine	90-04-0	C <sub>7</sub> H <sub>9</sub> NO
2-naphthylamine	91-59-8	C <sub>10</sub> H <sub>9</sub> N
3,3'-dichlorobenzidine	91-94-1	C <sub>12</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub>
4-aminobiphenyl	92-67-1	C <sub>12</sub> H <sub>11</sub> N
Benzidine	92-87-5	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub>
o-toluidine	95-53-4	C <sub>7</sub> H <sub>9</sub> N
4-chloro-o-toluidine	95-69-2	C <sub>7</sub> H <sub>8</sub> ClN
2,4-toluenediamine	95-80-7	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub>
o-aminoazotoluene	97-56-3	C <sup>14</sup> H <sub>13</sub> N <sub>3</sub>
5-nitro-o-toluidine	99-55-8	C <sub>7</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub>
3,3'-dichloro-4,4'-diaminodiphenylmethane	101-14-4	C <sub>15</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub>
4,4'-methylenedianiline	101-77-9	C <sub>13</sub> H <sub>14</sub> N <sub>2</sub>
4,4'-diaminodiphenylether	101-80-4	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O
p-chloroaniline	106-47-8	C <sub>6</sub> H <sub>6</sub> ClN
o-dianisidine	119-90-4	C <sub>14</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>
3,3'-dimethylbenzidine	119-93-7	C <sub>14</sub> H <sub>16</sub> N <sub>2</sub>
2-methoxy-5-methylaniline	120-71-8	C <sub>8</sub> H <sub>11</sub> NO
2,4,5-trimethylaniline	137-17-7	C <sub>9</sub> H <sub>13</sub> N
4,4'-thiodianiline	139-65-1	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> S
4-methoxy-m-phenylenediamine	615-05-4	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub> O
3,3'-dimethyl-4,4'-diaminodiphenylmethane	838-88-0	C <sub>15</sub> H <sub>18</sub> N <sub>2</sub>

### Table 4 Halogen Resin Additives

Substance	CAS No.	Chemical Formula
1,1,2,2-Tetrabromoethane	79-27-6	C <sub>2</sub> H <sub>2</sub> Br <sub>4</sub>
Tetrabromobisphenol A	79-94-7	C <sub>15</sub> H <sub>12</sub> Br <sub>4</sub> O <sub>2</sub>
Hexabromobenzene	87-82-1	C <sub>6</sub> Br <sub>6</sub>
Tris (i2-chloroethyl) phosphate	115-96-8	C <sub>6</sub> H <sub>12</sub> Cl <sub>3</sub> PO <sub>4</sub>
1,2,5,6,9,10-hexabromocyclodecane	3194-55-6	C <sub>12</sub> H <sub>18</sub> Br <sub>6</sub>
Polytetrafluoroethylene	—	(C <sub>2</sub> F <sub>4</sub> ) <sub>n</sub>
Tetrabromobisphenol a bis (dibromopropyl ether)	21850-44-2	C <sub>21</sub> H <sub>20</sub> O <sub>2</sub> Br <sub>8</sub>
Other halogenated resin additives	—	—

### Table 5 Radioactive Substances

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

### Table 6 Laws and Regulations for the Selection of "Defined Substances that Pose Risk to the Environment"

Law Concerning the Reporting of the Release into the Environment of Specific Chemical Substances and Promoting Improvements in their Management (PRTR law)
Occupational Health and Safety Law
The Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures
Law Concerning the Promotion of the Measures to Cope with Global Warming
Air Pollution Control Law
Water Pollution Control Law
Law Concerning Examination and Regulation of Manufacturing Prohibited Substances
Poisonous and Deleterious Substances Control Law
Waste Disposal and Public Cleaning Law
Law Concerning Special Measures Against Dioxins
Council Directive 76/769/EEC on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations, as regards substances classified as carcinogens, mutagens or substances toxic to reproduction
European Union ELV (End-of-Life Vehicle) Directive
WEEE (Waste Electrical and Electronic Equipment) Directive and the RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment) Directive
Basel Convention
OECD Joint Protocol *10

\*10 The order that stipulates Japan's requirements in restricting the utilization of substances with respect to decisions made by the Council of the Organization for Economic Co-operation and Development (OECD) in accordance with regulations of the transport and recycling of wastes between OECD nations.

Substances that pose a risk to the environment are subject to change. In order to stay abreast of current and revised laws and expand upon our existing knowledge, Mitsubishi Electric Group will revise the "Mitsubishi Electric Chemical Substance Control List" as needed. For revisions accompanying level changes, there may be omissions of numbers allocated to substances at the levels prior to revision (for example, II-34). For revised details, please check the company website at the following URL: <http://www.mitsubishielectric.co.jp/green-p/index.html>

Please direct inquiries concerning the Chemical Substance Control List to the following.

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