

General Standard on Chemical Substances  
Management  
(For suppliers)

Version.11.0

NTT Electronics Corporation  
Procurement Management Center  
Environmental and Quality Management Division

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## 1. Introduction

We intend to make clear our management criteria and strengthen controls on procurement. This document presents our voluntary standard for the chemical substances;

- (1) Chemical substances contained in parts and materials incorporated into NEL products or packing materials used for shipping of NEL products and
- (2) Chemical substances used in production processes of NEL products\*1).

NEL will not purchase any more, in principle, such parts, materials, packing materials that contain "Banned substance" or use them in the production processes. When our requests for green purchasing inquiry and information are not met, we may have to discontinue our business relationships. When these requirements are met, we give priority to procurement of the products with reduced environmental impact.

We would like to sincerely ask our suppliers to cooperate with our environmental conservation activities on the basis of understanding the purport of our policy and this standard.

If you have questions or advisement, please apply to our contact.

\*1) "Parts and materials, and packing materials" hereunder shall correctively mean part/ raw materials/ half-finished products/ units/ apparatus/ cable/ display material (ink, label etc.) that are incorporated in NEL products and packing materials for NEL products (box, tray, tape, cushion, etc.)

## 2. Scope

This standard shall be applied to parts and materials incorporated into NEL products and packing materials used for the shipping of NEL products.

## 3. Definition of terms

### 1) Banned substances in the production process

\_Mean the substances whose use should be banned in the production process of the supplies. These correspond to the ozone depleting substances (Class I and Class II) specified by JIG (Joint Industry Guide JIG-101) \*2). (Separate Table 1 of Annex)

### 2) Banned substances

\_Mean the substances that should not be intentionally contained in and/or added as contents of additive to the supplies. If they are unintentionally contained beyond our designated levels, purchase is not implemented. This category includes some materials in JIG and/or banned substances specified by NTT (Nippon Telegraph and Telephone Corporation). (Separate Table 2 of Annex)

### 3) Controlled substances

\_ Mean the substances whose contents, containing areas, and aims should be controlled. These substances correspond to JIG materials other than above banned substances and substances of very high concern (SVHC) in REACH regulation. (Separate Table 3 of Annex)

### 4) Specific substances

\_Mean the substances contained in parts, materials and packing materials or used in their production processes, and which have a possibility of giving an environmental impact. Above (1)-(3) collectively mean "Specific substances".

### 5) Additional survey substances

\_Means the substances specified by our customer, and whose contents, containing areas, and aims

should be controlled.

#### 6) Content

\_Means the substances intentionally included as materials (components) or additives, or unintentionally included as impurity and whose amount of content exceeds its threshold level.

#### 7) Content information

\_Means the substance names, CAS number, amount of content, composition, main purpose, parts name of specified chemical substances, and their masses.

\*2) The material composition declaration guide for electronic products developed by JGPSSI (Japan Green Procurement Survey Standardization Initiative), CEA (Consumer Electronics Association), DIGTALEUROPE.

## 4. Requirements

### 4-1. Specified control of chemicals and materials

No.	Requirements	Contents
(1)	Not to use Banned substances in process	# "Banned substances" (used in process) means the substances prohibited for use in process, assembling, mounting, fabricating, processing or forming. (Defined in Separate Table 1 of Annex)
(2)	Not to contain Banned substances	# "Banned substances" (contained) means the substances which should not be contained in parts, materials and packing materials. (Defined in Separate Table 2 of Annex) *If it is contained, purchase is not implemented. *If you note that delivered products contain banned substances, you should inform to us with documents as soon as possible. \$ In the case of the content less than the limit level, if you know its value, please disclose the content information. *If you note mistakes in the content information, you should inform to us with documents as soon as possible.
(3)	To properly manage the controlled substances	# The substance should be controlled, and the information about the amount of content should be known. (Defined in Separate Table 3 of Annex) *Please disclose the content information. *If you note mistakes in the content information, you should inform to us with documents as soon as possible.

#: Essential requirement/\$: Essential requirement if applicable

### 4-2. Change management

If there are important changes concerning the material, parts and process, please inform us with documents about the details of the changes concerning the above Section 4-1.

## 5. Submission of documents

We require suppliers to submit the below documents\*3).

No.	Documents	Substances
(a)	“Non-containing Certification (Banned Substances)- Contained in Products” (Form 1-1)	“Banned substances”
(b)	“Chemical Substances Survey Sheet” (Form 2-1)	“Banned substances” “Controlled substances” (“Additional survey substances”)
(c)	“SVHC Survey Sheet” (Form 2-2)	“Controlled substances” (“SVHC”)
(d)	List of Total Constructional Elements. (Form 4)	

\*3) We may require other survey forms, such as customer survey forms, survey tools of JGPSSI, and/or of JAMP (Joint Article Management Promotion-consortium) to comply with our customer request.

## 6. Operation

Each supplier is requested to follow the “General Standard on Chemical Substances Management” product by product for the purchase specifications or purchase order.

## 7. Establishment and revision history

1<sup>st</sup> edition: Established on Oct.21, 2003 / Enforced on Nov.10, 2003

2<sup>nd</sup> edition: Established on Mar.22, 2005 / Enforced on Apr.1, 2005

3<sup>rd</sup> edition: Established on Jan.20, 2006 / Enforced on Jan.23, 2006

4<sup>th</sup> edition: Established on May 22, 2006 / Enforced on Jun. 1, 2006

5<sup>th</sup> edition: Established on May 18, 2007 / Enforced on Jun. 1, 2007

6<sup>th</sup> edition: Established on Mar. 27, 2008 / Enforced on Apr. 1, 2008

7<sup>th</sup> edition: Established on Apr. 21, 2008 / Enforced on May 1, 2008

8<sup>th</sup> edition: Established on Nov. 30, 2009 / Enforced on Dec. 1, 2009

9<sup>th</sup> edition: Established on May 28, 2010 / Enforced on Jun. 1, 2010

10<sup>th</sup> edition: Established on Nov. 26, 2010 / Enforced on Dec. 1, 2010

11<sup>th</sup> edition: Established on May 23, 2011 / Enforced on Jun. 1, 2011

**Ref. Main changed terms from 10<sup>th</sup> Ed**

Item	10 <sup>th</sup> Ed	11 <sup>th</sup> Ed
<b>Table 2 Banned substances</b>		The following 5 substances are added to Table 2. - Pentachlorobenzene - Alfa-hexachlorocyclohexane - Beta-hexachlorocyclohexane -Gamma-hexachlorocyclohexane/Lindane - Chlordecone

## General Standard Chemical Substances Management Ver. 11.0 ANNEX

**Table 1 Banned substances in the production process**

The following substances are banned from being used in production process of the products. These correspond to the ozone depleting substances (Class I and Class II) in JIG\*1).

No.	Material Code	Substances Group	Substances
0-1	C04	Class I ozone-depleting substances defined by Montreal Protocol	Chlorofluorocarbons (CFCs)
			1,1,1-Trichloroethane
			Carbon tetrachloride
			Halons
			HBFCs
			Methyl bromide
			Bromochloromethane
		Class II ozone-depleting substances	HCFCs

\*1) JIG: Joint Industrial Guide.

**Table 2 Banned substances**

The following substances are banned from being contained in and/or being added to the products that delivered to NEL. If they are unintentionally contained beyond threshold levels, purchase is not implemented. This category includes some materials in JIG and/or banned substances specified by NTT (Nippon Telegraph and Telephone Corporation).

No.	Material Code	JIG/NTT /R*2)	Substances	Remarks (Threshold level)
1-1	A05	JR	Cadmium/Cadmium compounds	Substances banned by RoHS directive (Threshold levels and exempted applications are indicated in Tables 2a and 2b, respectively.)
1-2	A07	JR, R	Hexavalent chromium	
1-3	A09	JR, R	Lead/Lead compounds	
1-4	A10	JR, N	Mercury/Mercury compounds	
1-5	B02	JR, N	Polybrominated biphenyls (PBBs)	
1-6	B03	JR, N	Polybrominated diphenylethers (PBDEs)	
1-7	A17	JR, N, R	Bis(Tributyl tin) oxide (TBTO) (CAS No. 56-35-9)	Within ANNEX XVII of REACH regulation (1000 ppm)
1-8	A28	JR	Tri-substituted organostannic compounds	
1-9	A23	JR	Dibutyltin (DBT) compounds	
1-10	A24	JR	Dioctyltin (DOT) compounds	
1-11	B05	JR, N	Polychlorinated biphenyls (PCBs) and specific substitutes	
1-12	B15	JR, N	Polychlorinated terphenyls (PCTs)	
1-13	B06	JR, N	Polychlorination naphthalenes (PCNs) (3 or more [ The number of chlorine ] )	
1-14	B09	JR, R	Short-chain chlorinated paraffins (carbon chain length 10-13)	
1-15	C01	JR, N	Asbestos (Amosite, Crocidolite, Chrysotile, Actinolite, Anthophyllite, and Tremolite)	
1-16	C02	JR, R	Azo compounds that produces specific amines (Table 2c) by decomposition	
1-17	C04	JR, N	Class I Ozone-depleting substances (CFCs, 1,1,1-Trichloroethane, Carbon tetrachloride, Halons, HBFCs, Methyl bromide, Bromochloromethane	
		JR	Class II Ozone-depleting substances (HCFCs)	
1-18	C06	JR	Radioactive substances	
1-19	C08	JR, N	3-diene, and 2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-butylphenol (CAS No. 3846-71-7)	
1-20	B13	JR, N	Perfluorooctane sulfonate (PFOS)	
1-21	C11	JR	Dimethyl fumarate (CAS No. 624-49-7)	(0.1 ppm)
1-22	N-A03	N	Hexachlorobenzene(HCB)	Banned substances specified by NTT
1-23	N-A04	N	Aldrin	
1-24	N-A05	N	Dieldrin	
1-25	N-A06	N	Endrin	
1-26	N-A07	N	DDT	
1-27	N-A08	N	Chlordanes	

1-28	N-A10	N	N,N-Ditolyl-p-phenylenediamine, N-Tolyl-N-xylyl-p-phenylenediamine, and N,N-Dixylyl-p-phenylenediamine
1-29	N-A11	N	2,4,6-Tri Tertiary Butyl Phenol
1-30	N-A12	N	Toxisaphen
1-31	N-A13	N	Mylex
1-32	N-A14	N	Yellow-phosphorus match
1-33	N-A15	N	Benzidines
1-34	N-A16	N	4-Aminodiphenyls
1-35	N-A17	N	4-Nitrodiphenyls
1-36	N-A18	N	Bis(chloromethyl)ether
1-37	N-A19	N	Beta-naphthylamines
1-38	N-A20	N	Rubber adhesive containing benzene beyond 5wt%
1-39	N-A21	N	Cyanogen compounds
1-40	N-A22	N	Organophosphorous compounds (Parathion, Methyl-parathion, Methyl-demeton, and EPN)
1-41	N-A32	N	Polychlorinated dibenzofuran (PCDF)
1-42	N-A33	N	Polychlorinated dibenzo-p-dioxin (PCDD)
1-43	N-A34	N	Coplanar PCB (Co-PCB)
1-44	N-A35	N	Kelthane or Dicofof
1-45	N-A36	N	Hexachlorobuta-1,3-diene
1-46	N-A40	N	Pentachlorobenzene
1-47	N-A41	N	Alfa-hexachlorocyclohexane
1-48	N-A42	N	Beta-hexachlorocyclohexane
1-49	N-A43	N	Gamma-hexachlorocyclohexane/Lindane
1-50	N-A44	N	Chlordecone

\*2) JR: R (Regulated) substances in JIG, N: Banned substances specified by NTT, R: SVHC in REACH regulation.

**Table 2a Substances banned by RoHS directive and threshold levels\*3)**

Substance name	Threshold level	
Cadmium/Cadmium compounds	100ppm	The sum of the concentrations of 4 substances in packing materials: 100ppm
Hexavalent chromium	1000ppm	
Lead/Lead compounds	1000ppm	
	300ppm (for vinyl chloride cables)	
Mercury/Mercury compounds	1000ppm	
Polybrominated biphenyls (PBBs)	1000ppm	
Polybrominated diphenylethers (PBDEs)	1000ppm	

\*3) Concentration should be calculated based on the mass of each part uniformly containing above substances.

**Table 2b Exempted applications from RoHS directive**

Substance name	Exemption code	Exempted application
Cadmium/ Cadmium compounds	Cd-R-3	Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses.
	Cd-R-4	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more.
	Cd-R-6	Cadmium and cadmium oxide in thick film pastes used on aluminum bonded beryllium oxide.
	Cd-R-8	Cadmium and its compounds in electrical contacts.
	Cd-R-9	Cadmium in filter glasses and glasses used for reflectance standards.
	Cd-R-10	Cadmium in colour converting II-VI LED (<10 µg Cd per mm <sup>2</sup> of light-emitting area) for use in solid state illumination or display systems. (Expire on 1 Jul. 2014)
Hexavalent chromium	Cr-R-2	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75 % by weight in the cooling solution.
Lead/Lead compounds	Pb-RE-3	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight.
	Pb-RE-4	Copper alloy containing up to 4% lead by weight.
	Pb-RE-5	Lead in glass of cathode ray tubes.
	Pb-RE-6	Lead in glass of fluorescent tubes not exceeding 0.2 % by weight.
	Pb-RE-7	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
	Pb-RE-8	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher.
	Pb-RE-9	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC. (Expire on 1 Jan. 2013)
	Pb-RE-11	Lead used in other than C-press compliant pin connector systems. (Expire on 1 Jan. 2013)
	Pb-R-1	Lead as an alloying element in aluminum containing up to 0.4t% lead by weight.
	Pb-R-2	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
	Pb-R-3	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications.
	Pb-R-8	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages.

	Pb-R-10	Lead in linear incandescent lamps with silicate coated tubes. (Expire on 1 Sep. 2013)
	Pb-R-11	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications.
	Pb-R-15	Lead in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses.
	Pb-R-17	Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm and less.
	Pb-R-18	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors.
	Pb-R-20	Lead oxide in the glass envelope of black light blue lamps.
	Pb-R-22	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC.
	Pb-R-23	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting).
	Pb-R-24	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes.
	Pb-R-25	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers.
	Pb-R-26	Lead in cermet-based trimmer potentiometer elements.
	Pb-R-27	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body.
	Pb-R-30	Lead in white glasses used for optical applications.
	Pb-R-31	Lead in filter glasses and glasses used for reflectance standards.
	Pb-R-32	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications.
	Pb-R-33	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb).
	Pb-R-35	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring.
Mercury/ Mercury compounds	Hg-R-6	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): (a) For general lighting purposes < 30 W: 5 mg. (Expire on 31 December 2011; 3.5 mg may be used per burner after 31 December 2011 until 31 December 2012; 2.5 mg shall be used per burner after 31 December 2012) (b) For general lighting purposes ≥ 30 W and < 50 W: 5 mg. (Expire on 31 December 2011; 3.5 mg may be used per burner after 31 December 2011) (c) For general lighting purposes ≥ 50 W and < 150 W: 5 mg. (d) For general lighting purposes ≥ 150 W: 15 mg. (e) For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm. (No limitation of use until 31 December 2011; 7 mg may be used per burner after 31 December 2011) (f) For special purposes: 5 mg.

Hg-R-7	<p>Mercury in double-capped liner fluorescent lamps for general lighting purposes not exceeding (per lamp):</p> <p>(a) Tri-band phosphor with normal lifetime and a tube diameter &lt; 9 mm (e.g. T2): 5 mg. (Expire on 31 December 2011; 4 mg may be used per lamp after 31 December 2011)</p> <p>(b) Tri-band phosphor with normal lifetime and a tube diameter <math>\geq</math> 9 mm and <math>\leq</math> 17 mm (e.g. T5): 5 mg. (Expire on 31 December 2011; 3 mg may be used per lamp after 31 December 2011)</p> <p>(c) Tri-band phosphor with normal lifetime and a tube diameter &gt; 17 mm and <math>\leq</math> 28 mm (e.g. T8): 5 mg. (Expire on 31 December 2011; 3.5 mg may be used per lamp after 31 December 2011)</p> <p>(d) Tri-band phosphor with normal lifetime and a tube diameter &gt; 28 mm (e.g. T12): 5 mg. (Expire on 31 December 2011; 5 mg may be used per lamp after 31 December 2011)</p>
Hg-R-8	<p>Mercury in other fluorescent lamps not exceeding (per lamp):</p> <p>(a) Linear halophosphate lamps with tube &gt;28 mm (e.g. T10 and T12): 10 mg. (Expire on 13 April 2012)</p> <p>(b) Non-linear halophosphate lamps (all diameters): 15 mg. (Expire on 13 April 2016)</p> <p>(c) Non-linear tri-band phosphor lamps with tube diameter &gt; 17 mm (e.g. T9). (No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011)</p> <p>(d) Lamps for other general lighting and special purposes (e.g. induction lamps). (No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011)</p>
Hg-R-9	<p>Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamps):</p> <p>(a) Short length (<math>\leq</math> 500 mm). (No limitation of use until 31 December 2011; 3.5 mg may be used per lamp after 31 December 2011)</p> <p>(b) Medium length (&gt; 500 mm and <math>\leq</math>1500 mm). (No limitation of use until 31 December 2011; 5 mg may be used per lamp after 31 December 2011)</p> <p>(c) Long length (&gt;1500 mm). (No limitation of use until 31 December 2011; 13 mg may be used per lamp after 31 December 2011)</p>
Hg-R-10	<p>Mercury in other low pressure discharge lamps (per lamp). (No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011)</p>
Hg-R-11	<p>Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index <math>R_a &gt; 60</math>:</p> <p>(a) <math>P \leq 155</math> W. (No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011)</p> <p>(b) <math>155</math> W &lt; <math>P \leq 405</math> W. (No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011)</p> <p>(c) <math>P &gt; 405</math> W. (No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011)</p>

	Hg-R-12	<p>Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):</p> <p>(a) <math>P \leq 155</math> W. (No limitation of use until 31 December 2011; 25 mg may be used per burner after 31 December 2011)</p> <p>(b) <math>155 \text{ W} &lt; P \leq 405</math> W. (No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011)</p> <p>(c) <math>P &gt; 405</math> W. (No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011)</p>
	Hg-R-13	<p>Mercury in High Pressure Mercury (vapour) lamps (HPMV). (Expire on 13 April 2015)</p>
	Hg-R-14	<p>Mercury in metal halide lamps (MH).</p>
	Hg-R-15	<p>Mercury in other discharge lamps for special purposes not specifically mentioned in the Annex of 2002/95/EC.</p>

**Table 2c Specific amines\*4)**

Substance Chemical	CAS No.	Chemical Formula
Biphenyl-4-ylamine	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>
4-chloro-o-toluidine	95-69-2	C <sub>7</sub> H <sub>8</sub> ClN
2-naphthylamine	91-59-8	C <sub>10</sub> H <sub>9</sub> N
o-aminoazotoluene	97-56-3	C <sub>14</sub> H <sub>15</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>
4-chloroaniline	106-47-8	C <sub>6</sub> H <sub>6</sub> ClN
4-methoxy-m-phenylenediamine	615-05-4	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub> O
4,4'-methylenedianiline	101-77-9	C <sub>13</sub> H <sub>14</sub> N <sub>2</sub>
3,3'-dichlorobenzidine	91-94-1	C <sub>12</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub>
3,3'-dimethoxybenzidine	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>
4,4'-methylenedi-o-toluidine	838-88-0	C <sub>15</sub> H <sub>18</sub> N <sub>2</sub>
6-methoxy-m-toluidine	120-71-8	C <sub>8</sub> H <sub>11</sub> NO
4,4'-methylene-bis(2-chloroaniline)	101-14-4	C <sub>13</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub>
4,4'-oxydianiline	101-80-4	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O
4,4'-thiodianiline	139-65-1	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> S
o-toluidine	95-53-4	C <sub>7</sub> H <sub>9</sub> N
4-methyl-m-phenylenediamine	95-80-7	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub>
2,4,5-trimethylaniline	137-17-7	C <sub>9</sub> H <sub>13</sub> N
o-anisidine	90-04-0	C <sub>7</sub> H <sub>9</sub> NO
4-aminoazobenzene	60-09-3	C <sub>12</sub> H <sub>11</sub> N <sub>3</sub>

\*4) Specific amines are prohibited under EU Directive ( 76/769/EEC[+2002/61/EC·+2003/3/EC])

**Table 3 Controlled Substances**

Substances with control mean that the content of the substances in the products should be confirmed and controlled appropriately. “Contained” means situations in which the substances are intentionally added to, blended with, or adheres to any parts of the supplies, or in which they are unintentionally contained beyond the threshold levels. This category corresponds to JIG materials other than banned substances shown in Table 2 and substances of very high concern (SVHC) in REACH regulation. The concentration should be calculated based on the total mass of products or devices.

No.	Material Code	JIG/NTT /R*5)	Substances	Threshold levels
2-1	A19	JI	Beryllium Oxide (BeO) (CAS No. 1304-56-9)	1000ppm
2-2	A11	JR	Nickel (external application only)	Intentionally added
2-3	B07	JI	Polyvinyl Chloride (PVC) and its mixture	1000ppm
2-4	B08	JI	Brominated flame retardants (except PBB, PBDE, and HBCDD)	1000ppm
2-5	C10	JA	Selected Phthalates Group 2 DINP (CAS No. 28553-12-0, CAS No. 68515-48-0) DIDP (CAS No. 26761-40-0, CAS No. 68515-49-1) DNOP(CAS No. 117-84-0)	1000ppm
2-6	B12	JR	Perchlorates	0.006ppm
2-7	B10	JR	Fluorinated greenhouse gases (PFC, SF6, HFC)	Intentionally added
2-8	C07	JR	Formaldehyde (CAS No. 50-00-0)	Intentionally added
2-9	A01	JB	Antimony/Antimony compounds	1000ppm
2-10	A02	JB	Arsenic/Arsenic compounds	1000ppm
2-11	A03	JB	Other Beryllium/Beryllium compounds	1000ppm
2-12	A04	JB	Bismuth/Bismuth compounds	1000ppm
2-13	A13	JB	Selenium/Selenium compounds	1000ppm
2-14	A16		Magnesium	1000ppm
2-15	D01		Copper/Copper compounds	1000ppm
2-16	D02		Gold/Gold compounds	1000ppm
2-17	D03		Palladium/Palladium compounds	1000ppm
2-18	D04		Silver/Silver compounds	1000ppm
2-19 To be cont.		R	SVHC in REACH regulation*6)	1000ppm

\*5) JR: R (Regulated) substances, JA: A (Assessment) substances, JI: I (Information) substances, JB: Level B substances in JIG, N: Banned substances specified by NTT, R: SVHC in REACH regulation.

\*6) When the European Chemical Agency (ECHA) has added some substances to the candidate list of Substances of Very High Concern (SVHC), the substances are included in the list of “Controlled substances”.