

Guideline on Green Procurement

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Nippon Antenna Co., Ltd.

Production Department & Quality Assurance Department

I . Quality / Environmental Policy

Quality / Environmental Policy

— Basic philosophy —

In the information society, our company provides the good product by specific technology, and service, in broad fields such as various antenna and associated equipment, and telecommunications system construction, and contributes to construction and development of an advanced information and telecommunications society.

— Management concept —

“Cooperation” ” Efficiency” ” Challenge”

< Quality policy >

“For good products by all of us ! ”

< Environmental policy >

“Offer of environment-friendly goods”

< Guidelines for Behavior >

- 1) Establish quality and environmental objectives, and perform the continuous improvement of the management system for improvement of customer satisfaction and environmental performance.
- 2) We strive for prevention of pollution, relaxation of climate change and preservation of biodiversity in promotion of 3R (Reduce, Reuse and Recycle).
- 3) The laws and regulations of the product relation and environmental relation applied to our company, and customer requirements are observed.

April 1, 2018

President & Representative Director: Koichi Takizawa

II. Requests to Our Business Partners

In order to reduce environmental loads, we request our partners for the following four actions based on Nippon Antenna's "Environmental Policy".

1. Establishment of the environmental management system

We request our business partners to establish the environmental management systems to promote environmental protection and continuous improvement.

Such systems must be equivalent to, or based on, that described in ISO14001.

We recommend our partners to have their established environmental management systems accredited by the third parties.

We would like our partners to understand that we may visit them to check their environmental protection activity conditions as necessary.

2. Idle reduction/Proper disposal of waste

① We request the visitors to make idle reduction within Nippon Antenna's sites for prevention of air pollution and global warming, and for biological diversity.

② Nippon Antenna promotes activities for achieving "zero emission". Accordingly, we request our suppliers to remove from our premises and dispose properly of the remains of the delivered materials (wastes).

3. Non-use of Prohibited Chemical Substances

Nippon Antenna declares our customers that we do not use prohibited substances (refer to Appendix "Prohibited/Controlled Substances List").

Accordingly, Nippon Antenna's products shall not contain the prohibited substances within them.

In order to comply with our declaration, we request our business partners to ensure:

① not to contain the prohibited substances in the components or materials supplied to Nippon Antenna, and

② not to use the prohibited substances in the production lines for Nippon Antenna.

*Though, it depends on that when giving an instruction by us with a specification and so on, separately.

When containing of a prohibited substance was revealed, report it to our purchase section immediately.

③ Manage the equipment indicated in below and tools. Don't use a prohibited substance so that migrate pollution doesn't occur to the products.

The material of the packing, manufacturing facilities, test equipment, and mat for work, conveyor belts, tools etc.

4. Process Control the Concentration Change of Lead occurs

If there is a solder tank or plating process, please manage the lead content so that it does not exceed 800ppm.

In particular, if lead is intentionally added to the electroless nickel plating solution, the content of lead in plating may increase and exceed 1000ppm, which is prohibited by RoHS.

NOTE)

Nippon Antenna's "Prohibited/Controlled Substances List" consists of the chemical substances regulated under the domestic laws in Japan, and under European ELV and RoHS. **A list of the REACH regulations and the Chemical Substances Control Law is attached as an attachment. 1)**

5. Submission of Documents

We request our business partners to survey whether their supplying components/materials contain the prohibited substances (refer to the Appendix "Prohibited/Controlled Substances List" and "Breakdown List of Prohibited/Controlled Substances") and the weight if contained, and then to submit the below-mentioned documents:

No.	What to be submitted	When to be submitted
1	Analysis data • issued by material makers.	1) When supplying a component made of a new material. 2) Prior to change of a material or a supplier.
2	Environmental-data report tools used by each industry (The tool to be used depends on the request by our customers)	When Nippon Antenna requests in accordance with our customer's requirement.

3	Pledge for Disuse of Prohibited Substances • use either of the Appendix or an optional sheet	<ul style="list-style-type: none"> • Ongoing partners : When Nippon Antenna requests. • New partners : Prior to start of business.
4	Chemical Substances Control Check sheet (Appendix)	

NOTE 1) Nippon Antenna may specify another prohibited substance additional to the “Prohibited/Controlled Substances List” in accordance with our customer’s requirements. In that case, Nippon Antenna will request an additional survey and submission of documents.

NOTE 2) Our Green Procurement Guidelines will be provided for the first time and for new transactions. After that, the updated information will be posted on EDI. Please download it from our website. 1)

REVISION RECORD

Rev. Date	Sym bol	Details of revision
2006/10/1	—	Initial Issued.
2007/6/28	—	Nippon Antenna Environmental Policy changed.
2011/9/30	—	“Prohibited/Controlled Substances List”, “Breakdown List of Prohibited/Controlled Substances” changed.
2012/9/28	—	Add “Lead in galvanized steel” into “Prohibited/Controlled Substances List”.
2014/1/31	—	①“Chemical Substances Control Check sheet ” changed. ②” Chemical Substances Survey Sheet” discontinued.
2014/5/14	—	Nippon Antenna Environmental Policy changed.
2014/7/31	—	“Prohibited/Controlled Substances List”, “Breakdown List of Prohibited/Controlled Substances” changed.

2016/9/30	—	<p>①Nippon Antenna Environmental Policy changed.</p> <p>②Add an exception of non-containing of prohibited substances.</p> <p>③Add the accountability when prohibited material containing was revealed.</p> <p>④“Prohibited/Controlled Substances List” changed. (Revised RoHS)</p> <p>⑤“Chemical Substances Control Check sheet ” changed.</p>
2018/4/1	—	<p>① “Prohibited/Controlled Substances List”, “Breakdown List of Prohibited/Controlled Substances” changed.</p> <p>②Nippon Antenna Environmental Policy changed.</p>
2018/12/17	—	Add Red Phosphorus on to “Prohibited/Controlled Substances List”.
2019/7/2	—	“Chemical Substances Control Check sheet ” Chinese version prepared.
2019/8/30	—	<p>①The content management of lead in the process when the concentration change of lead occurs, specified.</p> <p>②“Chemical Substances Control Check sheet ” revised.</p>
2021/01/28	1)	<p>① Changed "List of Prohibited/Controlled Substances" and "Detailed List of Prohibited/Controlled Substances"</p> <p>• 12 lead/lead compound renewal/controlled substances added</p> <p>② Change to "prohibition of use of red phosphorus in resin materials, tubes, etc."</p> <p>③ Addition of "3-② Including Suppliers from the Perspective of Business Partners"</p> <p>④ 3-③ "Request for Management to Prevent Migrating Pollution" was added.</p> <p>⑤ Addition of Note 2</p> <p>Addition of lists related to the attached REACH Regulations and the Chemical Substances Control Law</p>

Nippon Antenna Co., Ltd., List of Prohibited/Controlled Substances

Banned Chemical Substances List

Classification	No	Symbol	Substance group name	Conditions of Use	Major laws and regulations	
M e t a l c o m p o u n d s	1		Cadmium (Cd)	Intentional use prohibited and less than 100 ppm	RoHS Directive	
	2		Hexavalent chromium (Cr6+)	Intentional use prohibited and less than 1000 ppm		
	3	1)	Lead (Pb)	Other than: Intentional use prohibited and less than 1000ppm		Items exempted from application
				• Not more than 0.35 wt% of lead in mechanical iron alloys		
				• Lead in aluminum alloys	Not more than 0.4 wt%	
				• Lead in aluminum alloys generated from the recycling of lead-containing aluminum scraps	Not more than 0.4 wt%	
				• Lead in aluminum alloys for processing	Not more than 0.4 wt%	
				• Lead contained in copper alloy	4 wt% or less	
				• Lead in high-melting-point solder (Lead-based alloys with a lead content of 85% or more)	Available	
				• Glass and ceramics (e.g., piezoelectric devices) other than dielectric ceramics for capacitors and electrical and electronic components containing lead in glass and ceramic composites	Available	
			• Our RoHS-exempt products			
4		Mercury (Hg)	Intentional use prohibited and less than 1000 ppm	RoHS Directive		
5		Nickel	Intentional use is prohibited if in contact with the skin for a long time.	REACH Regulation		
6		Tributyltin oxide (TBTO)	Intentional use prohibited and less than 1000 ppm	Substances Control Law		
7		Tri-substituted organostannic compounds	Intentional use prohibited and less than 1000 ppm (Tin element)			
8		Dibutyltin compounds (DBT)				
9		Diocyltin compounds (DOT)		REACH Regulation		
H a l o g o m e p n o u r d g a n i c	10		Polybrominated biphenyls (PBB)	Intentional use prohibited and less than 1000 ppm	RoHS Directive	
	11		Polybrominated diphenyl ether (PBDE)			
	12		Hexabromocyclododecane (HBCDD)	Intentional use prohibited and less than 1000 ppm	Substances Control Law	
	13		Polychlorinated Biphenyls (PCBs)	Intentional use prohibited		
	14		Polychlorinated terphenyls (PCTs)	Intentional use prohibited	REACH Regulation	
	15		Polychlorinated naphthalenes (3 or more chlorine atoms)	Intentional use prohibited	Substances Control Law	
	16		Short Chain Chlorinated Paraffins	Intentional use prohibited and less than 1000 ppm	REACH Regulation	
	17		Perfluorooctane sulfonate (PFOS)/related compounds	Intentional use prohibited and less than 1000 ppm	Chemical Substances Control Law and REACH regulations	
	18	1)	Perfluorooctanoic acid (PFOA)/related compound	Monitored chemical substances	Chemical Substances Control Law and REACH regulations	
19	1)	Fluorinated greenhouse gases (PFCs, SF6, HFCs)	Intentional use prohibited	Ozone Layer Protection Law		
O t h e r	20		Asbestos	Intentional use prohibited	REACH Regulation	
	21		Azocolourants and azodyes which form certain aromatic amines			
	22		Polycyclic aromatic hydrocarbons (PAHs)			
	23		Ozone depleting substances	Intentional use prohibited	Montreal Protocol	
	24		Phenol,2-(2H-benzotriazol-2-yl)- 4,6-bis(1,1-dimethylethyl)	Intentional use prohibited	Substances Control Law	
	25		Dimethyl fumarate	Intentional use prohibited	REACH Regulation	
	26		1,2-benzenedicarboxylic acid, branched dialkyl esters (DIHP) having 7 carbons as the main component and 6 to 8 carbons	Less than 0.1% by weight (1000 ppm) of the product		
	27		1,2-benzenedicarboxylic acid, branched and linear dialkyl esters (DHNUP) with 7 to 11 carbons	Less than 0.1% by weight (1000 ppm) of the product		
	28		Hexachlorobenzene	Intentional use prohibited	Substances Control Law	
	29		Pentachlorobenzene			
	30		Aldrin			
	31		Dieldrin			
	32		Endrin			
	33		DDT			
	34		Chlordanes			
	35		N,N'-ditryl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine or N,N'-dixylyl-p-phenylenediamine			

Banned Chemical Substances List

O t h e r	36		2,4,6-tri-tert-butylphenol	Intentional use prohibited	
	37		Toxaphene		
	38		Mirex		
	39		Kercen		
	40		Hexachlorobuta-1,3-diene		
	41		Hexachlorocyclohexane (α -, β -, and γ -)		
	42		Chlordecone		
	43		Endosulfan		
	44		Pentachlorophenol or its salts or Ester		
	45		Polychlorinated linear paraffins (limited to those with 10 to 13 carbon atoms and with a chlorine content exceeding 48% of the total weight)		
	46		Bis(2-ethylhexyl) phthalate DEHP	Intentional use prohibited and less than 1000 ppm	RoHS Directive
	47		BBP phthalate		
	48		Dibutyl phthalate DBP		
	49		DIBP diisobutyl phthalate		
	50	1)	Red phosphorus		

List of control substances

Classification	No	Symbol	Substance group name	Conditions of Use	CAS. No	Major laws and regulations
c o m p o u n d s	1	1)	Beryllium oxide (BeO)	Reporting and management of inclusion	1304-56-9	Air Pollution Control Law PRTR Law
	2		Diarsenic pentoxide	Reporting and management of inclusion	1303-28-2	REACH Regulation
	3		Diarsenic trioxide		1327-53-3	
	4		Cobalt chloride (CoCl ₂)		7646-79-9	
C o O H m r a p g l o a o u n g n i e d c n s	5		Brominated flame retardants (excluding PBBs, PBDEs and HBCDD)		Reporting and management of inclusion	
	6		Chlorinated fire retardants			REACH Regulation
	7		Tris (2-chloroethyl) phosphate (TCEP)			
	8	1)	Perchlorate			California, USA
	9	1)	Polyvinyl chloride (PVC) and PVC copolymers			JS709
O t h e r	10		Radioactive substances	Reporting and management of inclusion		Law Concerning Prevention from Radiation Hazards
	11		Phthalate esters group 2 (DIDP, DINP, DNOP)			REACH Regulation
	12		Refractory Ceramic Fibers, Aluminosilicate		-	
	13		Refractory Ceramic Fibers, Zirconia Aluminosilicate		-	
c V o m p o u n d s (V g O a C n s i c	14		Formaldehyde	Reporting and management of inclusion	50-00-0	Guidelines of the Ministry of Health, Labour and Welfare (VOC) REACH-designated substances
	15		Acetaldehyde	Reporting and management of inclusion	75-07-0	Guidelines of the Ministry of Health, Labour and Welfare (VOC)
	16		Phenobucarb (N-methylcarbamic acid-2-(1-methylpropyl)phenyl)		3766-81-2	
	17		Toluene		108-88-3	
	18		Xylene		108-38-3	
	19		Paradichlorobenzene		106-46-7	
	20		Ethyl benzene		100-41-4	
	21		Styrene		100-42-5	
	22		Chlorpyrifos		2921-88-2	
	23		Tetradecane		629-59-4	
24		Diazinon	333-41-5			
	25		Substances of high concern under REACH regulations (SVHC)	Reporting and management of inclusion (excluding those previously listed in this list)		REACH Regulation

- NOTE)
- ① In addition to the above, those that are individually specified take precedence.
 - ② This list may be revised due to changes in laws, regulations, and social trends.
 - ③ Controlled substances must be reported before delivery.

Prohibited substances

1. Cadmium/Cadmium Compounds	CAS number
Cadmium	7440-43-9
Cadmium oxide	1306-19-0
Cadmium sulfide	1306-23-6
Cadmium chloride	10108-64-2
Cadmium sulfate	10124-36-4
Other cadmium compounds	-

2. Hexavalent chromium compounds	CAS number
Chromium (VI) oxide	1333-82-0
Barium chromate	10294-40-3
Calcium chromate	13765-19-0
Lead (II) chromate	7758-97-6
Lead molybdate chromate sulfate (C.I. Pigment red 104)	12656-85-8
C.I. Pigment Yellow 34	1344-37-2
Sodium chromate	7775-11-3
Sodium dichromate	10588-01-9
Strontium chromate	7789-06-2
Potassium dichromate	7778-50-9
Potassium chromate	7789-00-6
Zinc chromate	13530-65-9
Pentazinc chromate octahydroxide	49663-84-5
Potassium hydroxyoctaoxodizincate dichromate	11103-86-9
Other chromium VI compounds	-

3. Lead/lead compounds	CAS number
Lead	7439-92-1
Lead (II) sulfate	7446-14-2
Lead carbonate	598-63-0
Lead (II) chromate	7758-97-6
Lead molybdate chromate sulfate (C.I. Pigment red 104)	12656-85-8
Lead hydroxidcarbonate	1319-46-6
Lead acetate	301-04-2
Lead (II) acetate, trihydrate	6080-56-4
Lead phosphate	7446-27-7
Lead selenide	12069-00-0
Lead (IV) oxide	1309-60-0
Lead (II,IV) oxide	1314-41-6
Lead (II) sulfide	1314-87-0
Lead (II) oxide	1317-36-8
Lead (II) carbonate basic	1319-46-6
Lead hydroxidcarbonate	1344-36-1
Lead (II) phosphate	7446-27-7
C.I. Pigment Yellow 34	1344-37-2
Lead (II) titanate	12060-00-3
Lead sulfate	15739-80-7
Lead sulphate, tribasic	12202-17-4
Lead stearate	1072-35-1
Other lead compounds	-

4. Mercury/Mercury Compounds	CAS number
Mercury	7439-97-6
Mercuric chloride	33631-63-9
Mercury (II) chloride	7487-94-7
Mercuric sulfate	7783-35-9
Mercuric nitrate	10045-94-0
Mercuric (II) oxide	21908-53-2
Mercuric sulfide	1344-48-5
Other mercury compounds	-

5. Nickel	CAS number
Nickel	7440-02-0

6. Tributyltin oxide (TBTO)	CAS number
Tributyltin oxide (TBTO)	56-35-9

7. Tri-substituted organostannic compounds	CAS number
Triphenyltin N,N'-dimethyldithiocarbamate	1803-12-9
Triphenyltin fluoride	379-52-2
Triphenyltin acetate	900-95-8
Triphenyltin chloride	639-58-7
Triphenyltin hydroxide	76-87-9
Triphenyltin fatty acid salts (C=9-11)	18380-71-7 18380-72-8 47672-31-1 94850-90-5
Triphenyltin chloroacetate	7094-94-2
Tributyltin methacrylate	2155-70-6
Bis(tributyltin) fumarate	6454-35-9
Tributyltin fluoride	1983-10-4
Bis (tributyltin) 2,3-dibromosuccinate	31732-71-5
Tributyltin acetate	56-36-0
Tributyltin laurate	3090-36-6
Bis (tributyltin) phthalate	4782-29-0
Copolymer of alkyl(c=8) acrylate,methyl methacrylate and tributyltin methacrylate	67772-01-4
Tributyltin sulfamate	6517-25-5
Bis(tributyltin) maleate	14275-57-1
Tributyltin chloride	1461-22-9 7342-38-3
Mixture of tributyltin cyclopentanecarboxylate and its analogs (tributyltin naphthenic acid)	85409-17-2
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)	26239-64-5
Other tri-substituted organostannic compounds	-

8. Dibutyltin compounds (DBT)	CAS number
Dibutyltin oxide	818-08-6
Dibutyltin diacetate	1067-33-0
Dibutyltin dilaurate	77-58-7
Dibutyltin maleate	78-04-6
Other dibutyltin compounds	-

9. Dioctyltin compounds (DOT)	CAS number
Dioctyl Tin Oxide	870-08-6
Dioctyltin dilaurate	3648-18-8
Other Dioctyltin compounds	-

10. Polybrominated biphenyls (PBBs)	CAS number
Polybrominated biphenyls	59536-65-1
Dibromobiphenyl	92-86-4
2-bromobiphenyl	2052-07-5
3-bromobiphenyl	2113-57-7
4-bromobiphenyl	92-66-0
Tribromobiphenyl	59080-34-1
Tetrabromobiphenyl	40088-45-7
Pentabromobiphenyl	56307-79-0
Hexabromobiphenyl	59080-40-9
Hexabromo-1,1'-biphenyl	36355-01-8
Fire Master FF-1 (Firemaster FF-1)	67774-32-7
Heptabromobiphenyl	35194-78-6
Octabromobiphenyl	61288-13-9
Nonabromo-1,1'-biphenyl	27753-52-2
Decabromobiphenyl	13654-09-6

11. Polybrominated diphenyl ethers (PBDEs)	CAS number
Bromodiphenyl ether	101-55-3
Dibromodiphenyl ether	2050-47-7
Tribromodiphenyl ether	49690-94-0
Tetrabromodiphenyl ether	40088-47-9
Pentabromodiphenyl ether (NOTE :NOTE: Commercially available PeBDPO is complex with various brominated diphenyl ether Reaction mixture	32534-81-9 (In the PeBDPO of commodities CAS No. used
Hexabromodiphenyl ether	36483-60-0
Heptabromodiphenyl ether	68928-80-3
Octabromodiphenyl ether	32536-52-0
Nonabromodiphenyl ether	63936-56-1
Decabromodiphenyl ether	1163-19-5

12. Hexabromocyclododecane (HBCDD)	CAS number
Hexabromocyclododecane (HBCDD)	25637-99-4 and 3194-55-6
α -hexabromocyclododecane	134237-50-6
β -hexabromocyclododecane	134237-51-7
γ -hexabromocyclododecane	134237-52-8

13. Polychlorinated biphenyls (PCBs) and specific substitutes	CAS number
Polychlorinated biphenyls (all isomers and congeners)	1336-36-3
Monomethyl tetrachloro diphenylmethane (Ugilec 141)	76253-60-6
Monomethyl dichloro diphenylmethane (Ugilec 121, Ugilec 21)	81161-70-8
Monomethyl dibromo diphenylmethane (DBBT)	99688-47-8

14. Polychlorinated terphenyls (PCTs)	CAS number
Polychlorinated terphenyls(PCT) (All isomers and homologs)	61788-33-8

15. Polychlorinated Naphthalenes	CAS number
Polychlorinated Naphthalenes	70776-03-3
Other polychlorinated Naphthalenes	-

16. Short chain chlorinated paraffins (SCCPs)	CAS number
Chloroalkane C10-13	85535-84-8
Chloroalkane C10-12	108171-26-2
Chloroalkane C12-13	71011-12-6
Alkanes, chloro	61788-76-9
Other Short Chain Chlorinated Paraffins	-

17. PFOS Compounds	CAS number
Perfluorooctane sulfonate (PFOS) C8F17SO2X, X OR, NR or other derivatives	-

18. PFOA, its salts and esters of PFOA	CAS number
Perfluorooctanoic acid	335-67-1
Ammonium pentadecafluorooctanoate	3825-26-1
Sodium pentadecafluorooctanoate	335-95-5
Potassium perfluorooctanoate	2395-00-8
Silver pentadecafluorooctanoate (I)	335-93-3
Pentadecafluorooctanoyl fluoride	335-66-0
Methyl pentadecafluorooctanoate	376-27-2
Ethyl pentadecafluorooctanoate	3108-24-5

19. Fluorinated Greenhouse Gases	CAS number
Tetrafluoromethane (Carbon tetrafluoride, PFC-14)	75-73-0
Hexafluoroethane (PFC-116)	76-16-4
Octafluoropropane (PFC-218)	76-19-7
Decafluorobutane (PFC-31-10)	355-25-9
Dodecafluoropentane (PFC-41-12)	678-26-2
Tetradecafluorohexane (PFC-51-14)	355-42-0
Octafluorocyclobutane (PFC-c318)	115-25-3
Sulfur hexafluoride (SF6)	2551-62-4
Trifluoromethane (HFC-23)	75-46-7
Difluoromethane (HFC-32)	75-10-5
Methyl fluoride (HFC-41)	593-53-3
2H,3H-Decafluoropentane (HFC-43-10mee)	138495-42-8
Pentafluoroethane (HFC-125)	354-33-6
1,1,2,2-Tetrafluoroethane (HFC-134)	359-35-3
1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2
1,1-Difluoroethane (HFC-152a)	75-37-6
1,1,2-Trifluoroethane (HFC-143)	430-66-0
1,1,1-Trifluoroethane (HFC-143a)	420-46-2
2H-heptafluoropropane (HFC-227ea)	431-89-0
1,1,1,2,2,3-hexafluoropropane (HFC-236cb)	677-56-5
1,1,1,2,3,3-hexafluoropropane (HFC-236ea)	431-63-0
1,1,1,3,3,3-hexafluoropropane (HFC-236fa)	690-39-1
1,1,2,2,3-pentafluoropropane (HFC-245ca)	679-86-7
1,1,1,3,3-Pentafluoropropane (HFC-245fa)	460-73-1
1,1,1,3,3-Pentafluorobutane (HFC-365 mfc)	406-58-6

20. Asbestos	CAS number
Asbestos	1332-21-4
Actinolite	77536-66-4
Amosite (Grunerite)	12172-73-5
Anthophyllite	77536-67-5
Chrysotile	12001-29-5
Crocidolite	12001-28-4
Tremolite	77536-68-6

21. Azocolourants and azodyes which form certain aromatic amines	CAS number
4-Aminobiphenyl	92-67-1
Benzidine	92-87-5
4-chloro-2-methylaniline	95-69-2
2-naphthylamine	91-59-8
o-aminoazotoluene	97-56-3
5-nitro-o-toluidine	99-55-8
4-CHLOROANILINE	106-47-8
4-methoxy-m-phenylenediamine	615-05-4
4,4'-methylenedianiline	101-77-9
3,3'-dichlorobenzidine	91-94-1
3,3'-dimethoxybenzidine	119-90-4
3,3'-dimethylbenzidine	119-93-7
4,4'-methylenedi-o-toluidine	838-88-0
6-methoxy-m-toluidine	120-71-8
4,4'-Methylene-bis(2-chloroaniline)	101-14-4
4,4'-oxydianiline	101-80-4
4,4'-thiodianiline	139-65-1
o-toluidine	95-53-4
4-methyl-m-phenylenediamine	95-80-7
2,4,5-trimethylaniline	137-17-7
o-anisidine	90-04-0
4-amino azobenzene	60-09-3

22. Polycyclic aromatic hydrocarbons (PAHs)	CAS number
Benzo(a)pyrene	50-32-8
Benzo(e)pyrene	192-97-2
BENZ(a)ANTHRACENE	56-55-3
Chrysene	218-01-9
Benzo(b) fluoranthene	205-99-2
Benzo(i)fluoranthene	205-82-3
Benzo(k)fluoranthene	207-08-9
Dibenzo(a,h)anthracene	53-70-3

23. Ozone depleting substances	CAS number
Trichlorofluoromethane (CFC-11)	75-69-4
Dichlorodifluoromethane (CFC-12)	75-71-8
Chlorofluoromethane (CFC-13)	75-72-9
Pentachlorofluoroethane (CFC-111)	354-56-3
Tetrachlorodifluoroethane (CFC-112)	76-12-0
1,1,2,2-Tetrachloro-1,2-difluoroethane (CFC-112)	76-12-0
1,1,1,2-Tetrachloro-2,2-difluoroethane (CFC-112a)	76-11-9
Trichlorotrifluoroethane (CFC-113)	76-13-1,
1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1
1,1,1-Trichloro-2,2,2-trifluoroethane (CFC-113a)	354-58-5

23. Ozone Depleting Substances (continued)	CAS number
Dichlorotetrafluoroethane (CFC-114)	76-14-2
Monochloropentafluoroethane (CFC-115)	76-15-3
Heptachlorofluoropropane (CFC-211)	422-78-6
1,1,1,2,2,3,3-heptachloro-3-fluoropropane (CFC-211aa)	135401-87-5
1,1,1,2,3,3,3-heptachloro-2-fluoropropane (CFC-211ba)	422-78-6
Hexachlorodifluoropropane (CFC-212)	422-81-1
Pentachlorotrifluoropropane (CFC-213)	3182-26-1
Tetrachlorotetrafluoropropane (CFC-214)	2354-06-5
1,2,2,3-Tetrachloro-1,1,3,3-tetrafluoropropane (CFC-214aa)	134237-31-3
1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane (CFC-214cb)	29255-31-0
Trichloropentafluoropropane (CFC-215)	2268-46-4
1,2,2-Trichloropentafluoropropane (CFC-215aa)	-
1,2,3-trichloropentafluoropropane (CFC-215ba)	1599-41-3
1,1,2-Trichloropentafluoropropane (CFC-215bb)	1599-41-3
1,1,3-trichloropentafluoropropane (CFC-215ca)	76-17-5
1,1,1-trichloropentafluoropropane (CFC-215cb)	-
Dichlorohexafluoropropane (CFC-216)	-
Chloroheptafluoropropane (CFC-217)	4259-43-2
Bromochloromethane (halon-1011)	661-97-2
Dibromodifluoromethane (Halon-1202)	422-86-6
Bromochlorodifluoromethane (Halon-1211)	74-97-5
Bromotrifluoromethane (Halon-1301)	75-61-6
Dibromotetrafluoroethane (halon-2402)	353-59-3
Tetrachloromethane (carbon tetrachloride)	75-63-8
1,1,1-trichloroethane (methylchloroform)	124-73-2
Bromomethane (methyl bromide)	56-23-5
Bromoethane (ethyl bromide)	71-55-6
1-Bromopropane (n-propyl bromide)	74-83-9
Trifluoroiodomethane (trifluoromethyl iodide)	74-96-4
Chloromethane (methyl chloride)	106-94-5
Dibromofluoromethane (HBFC-21 B2)	2314-97-8
Bromodifluoromethane (HBFC-22 B1)	74-87-3
Bromofluoromethane (HBFC-31 B1)	1868-53-7
Tetrabromofluoroethane (HBFC-121 B4)	1511-62-2
Tribromodifluoroethane (HBFC-122 B3)	373-52-4
Dibromotrifluoroethane (HBFC-123 B2)	306-80-9
Bromotetrafluoroethane (HBFC-124 B1)	-
Tribromofluoroethane (HBFC-131 B3)	354-04-1
Dibromodifluoroethane (HBFC-132 B2)	124-72-1
Bromotrifluoroethane (HBFC-133 B1)	-
Dibromofluoroethane (HBFC-141 B2)	75-82-1
Bromodifluoroethane (HBFC-142 B1)	421-06-7
Bromofluoroethane (HBFC-151 B1)	358-97-4
Hexabromofluoropropane (HBFC-221 B6)	420-47-3
Pentabromodifluoropropane (HBFC-222 B5)	762-49-2
Tetrabromotrifluoropropane (HBFC-223 B4)	-
Tribromotetrafluoropropane (HBFC-224 B3)	-
Dibromopentafluoropropane (HBFC-225 B2)	431-78-7
Bromoheptafluoropropane (HBFC-226 B1)	2252-78-0
Pentabromofluoropropane (HBFC-231 B5)	-
Tetrabromodifluoropropane (HBFC-232 B4)	-
Tribromotrifluoropropane (HBFC-233 B3)	-
Dibromotetrafluoropropane (HBFC-234 B2)	-
Bromopentafluoropropane (HBFC-235 B1)	460-88-8
Tetrabromofluoropropane (HBFC-241 B4)	-

23. Ozone Depleting Substances (continued)	CAS number
Tribromodifluoropropane (HBFC-242 B3)	70192-80-2
Dibromotrifluoropropane (HBFC-243 B2)	431-21-0
Bromotetrafluoropropane (HBFC-244 B1)	679-84-5
Tribromofluoropropane (HBFC-251 B3)	75372-14-4
Dibromodifluoropropane (HBFC-252 B2)	460-25-3
Bromotrifluoropropane (HBFC-253 B1)	421-46-5
Dibromofluoropropane (HBFC-261 B2)	51584-26-0
Bromodifluoropropane (HBFC-262 B1)	-
Bromofluoropropane (HBFC-271 B1)	1871-72-3
Dichlorofluoromethane (HCFC-21)	75-43-4
Chlorodifluoromethane (HCFC-22)	75-45-6
Chlorofluoromethane (HCFC-31)	593-70-4
Tetrachlorofluoroethane (HCFC-121)	134237-32-4
1,1,2,2-Tetrachloro-1-fluoroethane (HCFC-121)	354-14-3
1,1,1,2-Tetrachloro-2-fluoroethane (HCFC-121a)	354-11-0
Trichlorodifluoroethane (HCFC-122)	41834-16-6
1,2,2-trichloro-1,1-difluoroethane (HCFC-122)	354-21-2
1,1,2-trichloro-1,2-difluoroethane (HCFC-122a)	354-15-4
1,1,1-trichloro-2,2-difluoroethane (HCFC-122b)	354-12-1
Dichlorotrifluoroethane (HCFC-123)	34077-87-7
1,1-Dichloro-2,2,2-trifluoroethane (HCFC-123)	306-83-2
1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)	354-23-4
1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	90454-18-5
1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	812-04-4
Chlorotetrafluoroethane (HCFC-124)	63938-10-3
2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124)	2837-89-0
1-chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	354-25-6
Trichlorofluoroethane (HCFC-131)	27154-33-2;27154-33-2;
1,1,2-trichloro-2-fluoroethane (HCFC-131)	(134237-34-6)
1,1,2-trichloro-1-fluoroethane (HCFC 131a)	359-28-4
1,1,1-trichloro-2-fluoroethane (HCFC-131b)	811-95-0
Dichlorodifluoroethane (HCFC-132)	2366-36-1
Dichlorodifluoroethane (HCFC-132)	25915-78-0
1,2-Dichloro-1,2-difluoroethane (HCFC-132)	431-06-1
1,1-Dichloro-2,2-difluoroethane (HCFC-132a)	471-43-2
1,2-Dichloro-1,1-difluoroethane (HCFC-132b)	1649-08-7
1,1-Dichloro-1,2-difluoroethane (HCFC-132c)	1842-05-3
Chlorotrifluoroethane (HCFC-133)	1330-45-6
1-chloro-1,2,2-trifluoroethane (HCFC-133)	431-07-2
2-chloro-1,1,1-trifluoroethane (HCFC-133a)	1330-45-6
1-chloro-1,1,2-trifluoroethane (HCFC-133b)	75-88-7
Dichlorofluoroethane (HCFC-141)	421-04-5
Dichlorofluoroethane (HCFC-141)	1717-00-6
1,2-Dichloro-1-fluoroethane (HCFC-141)	(25167-88-8)
1,1-Dichloro-2-fluoroethane (HCFC-141a)	430-57-9
1,1-Dichloro-1-fluoroethane (HCFC-141b)	430-53-5
Chlorodifluoroethane (HCFC-142)	1717-00-6
2-chloro-1,1-difluoroethane (HCFC-142)	25497-29-4
1-chloro-1,1-difluoroethane (HCFC-142b)	338-65-8
1-chloro-1,2-difluoroethane (HCFC 142a)	75-68-3
Chlorofluoroethane (HCFC-151)	338-64-7
1-chloro-2-fluoroethane (HCFC-151)	110587-14-9
1-chloro-1-fluoroethane (HCFC-151a)	762-50-5
Hexachlorofluoropropane (HCFC-221)	1615-75-4
1,1,1,2,2,3-hexachloro-3-fluoropropane (HCFC-221ab)	134237-35-7
1,1,1,2,2,3-hexachloro-3-fluoropropane (HCFC-221ab)	29470-94-8
1,1,1,2,2,3-hexachloro-3-fluoropropane (HCFC-221ab)	422-26-4

23. Ozone Depleting Substances (continued)	CAS number
Pentachlorodifluoropropane (HCFC-222)	134237-36-8
1,1,1,3,3-Pentachloro-2,2-difluoropropane (HCFC-222ca)	422-49-1
1,2,2,3,3-Pentachloro-1,1-difluoropropane (HCFC-222aa)	422-30-0
Tetrachlorotrifluoropropane (HCFC-223)	134237-37-9
1,1,3,3-Tetrachloro-1,2,2-trifluoropropane (HCFC-223ca)	422-52-6
1,1,1,3-Tetrachloro-2,2,3-trifluoropropane (HCFC-223cb)	422-50-4
Trichlorotetrafluoropropane (HCFC-224)	134237-38-0
1,3,3-trichloro-1,1,2,2-tetrafluoropropane (HCFC-224ca)	422-54-8
1,1,3-trichloro-1,2,2,3-tetrafluoropropane (HCFC-224cb)	422-53-7
1,1,1-trichloro-2,2,3,3-tetrafluoropropane (HCFC-224cc)	422-51-7
Dichloropentafluoropropane (HCFC-225)	127564-92-5
2,2-Dichloro-1,1,1,3,3-pentafluoropropane (HCFC-225aa)	128903-21-9
2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC-225ba)	422-48-0
1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225bb)	422-44-6
3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	422-56-0
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	507-55-1
1,1-Dichloro-1,2,2,3,3-pentafluoropropane (HCFC-225cc)	13474-88-9
1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC-225da)	431-86-7
1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225ea)	136013-79-1
1,1-Dichloro-1,2,3,3,3-pentafluoropropane (HCFC-225eb)	111512-56-2
Chlorohexafluoropropane (HCFC-226)	134308-72-8
2-chloro-1,1,1,3,3,3-hexafluoro-propane (HCFC-226da)	431-87-8
Pentachlorofluoropropane (HCFC-231)	134190-48-0
1,1,1,2,3-Pentachloro-2-fluoro-propane (HCFC-231bb)	421-94-3
Tetrachlorodifluoropropane (HCFC-232)	134237-39-1
1,1,1,3-Tetrachloro-3,3-difluoropropane (HCFC 232fc)	460-89-9
Trichlorotrifluoropropane (HCFC-233)	134237-40-4
1,1,1-trichloro-3,3,3-trifluoropropane (HCFC-233fb)	7125-83-9
Dichlorotetrafluoropropane (HCFC-234)	127564-83-4
1,2-Dichloro-1,2,3,3-tetrafluoropropane (HCFC-234db)	425-94-5
Chloropentafluoropropane (HCFC-235)	134237-41-5
1-chloro-1,1,3,3,3-pentafluoropropane (HCFC-235fa)	460-92-4
Tetrachlorofluoropropane (HCFC-241)	134190-49-1
1,1,2,3-Tetrachloro-1-fluoropropane (HCFC-241db)	666-27-3
Trichlorodifluoropropane (HCFC-242)	134237-42-6
1,3,3-trichloro-1,1-difluoropropane (HCFC-242fa)	460-63-9
Dichlorotrifluoropropane (HCFC-243)	134237-43-7
1,1-Dichloro-1,2,2-trifluoropropane (HCFC-243cc)	7125-99-7
2,3-Dichloro-1,1,1-trifluoropropane (HCFC-243db)	338-75-0
3,3-Dichloro-1,1,1-trifluoropropane (HCFC-243fa)	460-69-5
Chlorotetrafluoropropane (HCFC-244)	134190-50-4
3-chloro-1,1,2,2-tetrafluoropropane (HCFC-244ca)	679-85-6
1-chloro-1,1,2,2-tetrafluoropropane (HCFC-244cc)	421-75-0
Trichlorofluoropropane (HCFC-251)	134190-51-5
1,1,3-trichloro-1-fluoropropane (HCFC-251fb)	818-99-5
1,1,2-trichloro-1-fluoropropane (HCFC-251dc)	421-41-0
Dichlorodifluoropropane (HCFC-252)	134190-52-6
1,3-Dichloro-1,1-difluoropropane (HCFC-252fb)	819-00-1
Chlorotrifluoropropane (HCFC-253)	134237-44-8
3-chloro-1,1,1-trifluoropropane (HCFC-253fb)	460-35-5
Dichlorofluoropropane (HCFC-261)	134237-45-9
1,1-Dichloro-1-fluoropropane (HCFC-261fc)	7799-56-6
1,2-Dichloro-2-fluoropropane (HCFC-261ba)	420-97-3
Chlorodifluoropropane (HCFC-262)	134190-53-7
1-chloro-2,2-difluoropropane (HCFC-262ca)	420-99-5
2-chloro-1,3-difluoropropane (HCFC-262da)	102738-79-4
1-chloro-1,1-difluoropropane (HCFC-262fc)	421-02-3

23. Ozone Depleting Substances (continued)	CAS number
Chlorofluoropropane (HCFC-271)	134190-54-8
2-chloro-2-fluoropropane (HCFC-271ba)	420-44-0
1-chloro-1-fluoropropane (HCFC-271fb)	430-55-7
24.2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-butylphenol	CAS number
Phenol,2-(2H-benzotriazol-2-yl)- 4,6-bis(1,1-dimethylethyl)	3846-71-7
25. Dimethyl fumarate	CAS number
Dimethyl fumarate	624-49-7
26.1,2-benzenedicarboxylic acid with 6 to 8 carbons, mainly 7 carbons Branched dialkyl esters (DIHP)	CAS number
1,2-benzenedicarboxylic acid, branched dialkyl esters (DIHP) having 7 carbons as the main component and 6 to 8 carbons	71888-89-6
27.1,2-benzenedicarboxylic acid, branched with 7-11 carbons Linear dialkyl esters (DHNUP)	CAS number
1,2-benzenedicarboxylic acid, branched and linear dialkyl esters (DHNUP) with 7 to 11 carbons	68515-42-4
28. ~ ~40. Others ①	CAS number
Hexachlorobenzene	118-74-1
Pentachlorobenzene	608-93-5
Aldrin	309-00-2
Dieldrin	60-57-1
Endrin	72-20-8
DDT	50-29-3
Chlordanes	57-74-9
N,N'-ditryl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine or N,N'-dixylyl-p-phenylenediamine	28726-30-9
2,4,6-tri-tert-butylphenol	732-26-3
Toxaphene	8001-35-2
Mirex	2385-85-5
Kercen	115-32-2
Hexachlorobuta-1,3-diene	87-68-3
41. Hexachlorocyclohexane	CAS number
α -hexachlorocyclohexane	319-84-6
β -hexachlorocyclohexane	319-85-7
γ -hexachlorocyclohexane	58-89-9
42. ~ ~43. Others ②	CAS number
Chlordecone	143-50-0
Endosulfan	115-29-7
44. Pentachlorophenol or its salts or esters	CAS number
Pentachlorophenol	87-86-5
Sodium pentachlorophenol	131-52-2
Pentachlorophenyl dodecanoate	3772-94-9

45. Polychlorinated straight chain paraffins (10 to 13 carbons), Containing by weight more than 48% of chlorine	CAS number
1,1,1,3,5,7,9,11,11-Nonachloroundecane	18993-26-5
Octachloroindecane	36312-81-9
Heptachloroindecane	219697-10-6
Nonachloroundecane	219697-11-7
Decachloroindecane	276673-33-7
1,1,1,3,6,7,10,11-octachloroindecane	601523-20-0
1,1,1,3,9,11,11-octachloroindecane	601523-25-5
Short Chain Chlorinated Paraffins	85535-84-8
Chlorinated paraffins (C6-18)	68920-70-7
Chloroalkanes (C12-13)	71011-12-6
Chloroalkanes (C12-14)	85536-22-7
Chloroalkane (C10-14)	85681-73-8
Chlorinated paraffin (C12,60% chlorine)	108171-26-2

46. ~ ~49. Phthalates (BBP, DBP, DEHP, DIBP)	CAS number
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
BBP (BBP)	85-68-7
Dibutyl phthalate	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5

50. Red phosphorus	CAS number
Red phosphorus	7723-14-0

Controlled substances

1. ~ ~4. Metallic compounds	CAS number
Beryllium oxide (BeO)	1304-56-9
Diarsenic pentoxide	1303-28-2
Diarsenic trioxide	1327-53-3
Cobalt chloride (CoCl ₂)	7646-79-9

5. Brominated flame retardants (except PBBs, PBDEs or HBCDDs)	CAS number
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	-
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	-
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds (excluding brominated diphenyl ethers and biphenyls)]	-
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17) [Aromatic brominated compounds (excluding brominated diphenyl ethers and biphenyls) in combination with antimony compounds]	-
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]	-
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organophosphorus compounds]	-
Poly(2,6-dibromo-phenylene oxide)	69882-11-7
Tetra-decabromo-diphenoxy-benzene	58965-66-5
1,2-Bis(2,4,6-tribromo-phenoxy) ethane	37853-59-1
3,5,3',5'-tetrabromobisphenol A (TBBA)	79-94-7
TBBA, unspecified	30496-13-0
TBBA (epichlorohydrin oligomer)	40039-93-8
TBBA-TBBA-diglycidyl-ether oligomer	70682-74-5
TBBA carbonate oligomer	28906-13-0
TBBA carbonate oligomer, phenoxy end capped	94334-64-2

5. Brominated flame retardants (except PBBs, PBDEs or HBCDD) (continued)	CAS number
TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	71342-77-3
TBBA-bisphenol A-phosgene polymer	32844-27-2
Brominated epoxy resin end-capped with tribromophenol	139638-58-7
Brominated epoxy resin end-capped with tribromophenol	135229-48-0
TBBA-(2,3-dibromopropyl ether)	21850-44-2
TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2
TBBA-bis-(allyl-ether)	25327-89-3
TBBA-dimethyl-ether	37853-61-5
Tetrabromo-bisphenol S	39635-79-5
TBBS bis-(2,3-dibromopropyl ether)	42757-55-1
2,4-Dibromophenol	615-58-7
2,4,6-tribromo-phenol	118-79-6
Pentabromo-phenol	608-71-9
2,4,6-tribromophenylallyl ether	3278-89-5
Tribromo-phenyl-allyl-ether, unspecified	26762-91-4
Bis (methyl) tetrabromo-phthalate	55481-60-2
Bis (2-ethylhexyl) tetrabromo-phthalate	26040-51-7
2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	20566-35-2
TBPA, glycol-and propylene-oxide esters	75790-69-1
N,N'-Ethylene-bis-(tetrabromo-phthalimide)	32588-76-4
Ethylene-bis (5,6-dibromo-norbornane-2,3-dicarboximide)	52907-07-0
2,3-Dibromo-2-butene-1,4-diol	3234-02-4
Dibromo-neopentyl-glycol	3296-90-0
2,3-Dibromopropanol	96-13-9
Tribromo-neopentyl-alcohol	36483-57-5
Poly tribromo-styrene	57137-10-7
Tribromo-styrene	61368-34-1
Dibromo-styrene grafted PP	171091-06-8
Poly-dibromo-styrene	31780-26-4
Bromo-/Chloro-paraffins	68955-41-9
Bromo-/Chloro-alpha-olefin	82600-56-4
Bromoethylene	593-60-2
Tris-(2,3-dibromo-propyl)-isocyan urate	52434-90-9
Tris(2,4-Dibromo-phenyl) phosphate	49690-63-3
Tris(tribromo-neopentyl) phosphate	19186-97-1
Chlorinated and brominated phosphate ester	125997-20-8
Pentabromotoluene	87-83-2
Pentabromo-benzyl bromide	38521-51-6
1,3-Butadiene homopolymer, brominated	68441-46-3
Pentabromo-benzyl-acrylate, monomer	59447-55-1
Pentabromo-benzyl-acrylate, polymer	59447-57-3
Decabromo-diphenyl-ethane	84852-53-9
Tribromobisphenylmaleinimide	59789-51-4
Tetrabromo-chyclo-octane	31454-48-5
1,2-Dibromo-4-(1,2-dibromomethyl) cyclohexane	3322-93-8
TBPA Na Salt	25357-79-3
Tetrabromo phthalic anhydride	632-79-1
Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)	155613-93-7
Other Brominated Flame Retardants	-

6.Chlorinated fire retardants	CAS number
[2,2-bis(chloromethyl)-1,3-propanediyl]bis(oxybisphosphonate)tetra Kis (2-chloroethyl) Tetrakis (2-chloroethyl) dichloroisopentyldiphosphate	38051-10-4
Tris (1-methyl-2-chloroethyl) Tris (1-chloro-2-propyl) phosphate	13674-84-5
2,2-bis(bromomethyl)-3-chloropropyl bis[2-chloro-1-(chloromethyl)] l)ethyl tris(2,3-dichloro-1-propyl)phosphate	66108-37-0
Other Chlorinated Flame Retardants	-

7.Tris (2-chloroethyl) phosphate (TCEP)	CAS number
Tris (2-chloroethyl) phosphate (TCEP)	115-96-8

8. Perchlorate Compounds	CAS number
Lithium perchlorate	7791-03-9
Other perchlorate compounds	-

9. Polyvinyl chloride (PVC) and PVC copolymers	CAS number
Polyvinyl chloride (PVC)	9002-86-2
Other Polyvinyl chlorides	-
PVC copolymer	-

10. Radioactive material (radioisotope)	CAS number
Uranium-238	7440-61-1
Radon	10043-92-2
Americium-241	14596-10-2
Thorium-232	7440-29-1
Cesium-137	10045-97-3
Strontium-90	10098-97-2
Other radioactive substances	-

11. Phthalate ester group 2 (DIDP, DINP, DNOP)	CAS number
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0
Di-n-octyl phthalate (DNOP)	117-84-0

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