

■ Fujitsu Group specified Control Substances

Fujitsu group has been listed substances that may be harmful as "Control Substances", and manage their content weight in our products. They can be customized by each our group company, taking product specification, local conditions and stakeholders' opinion into consideration. Target substances listed in Japan are as follows.

Table.1 "Specific Controlled Substances in Japan"

No	Substance Name	CAS No.	Managing levels	Remarks
D001	Beryllium Oxide (BeO)	1304-56-0	4000 ppm of the product by weight	
D002	Brominated flame retardants (other than PBBs, PBDEs and HBCDD) Details: Table 2a.	—	Intentionally added	
D003	Fluorinated greenhouse gases (HFC, PFC, SF6) Details: Table 2b.	—	Intentionally added	
D004	Formaldehyde	50-00-0	Intentionally added in composite wood products or 75 ppm of textile product by weight	This applies to composite wood products or components and textiles.
D005	Nickel	7440-02-0	Intentionally added	This applies to applications where prolonged skin contact is expected.
D006	Perchlorates Details: Table 2b.		0.006 ppm of the product by weight	
D007	Phthalates (DINP, DIDP, DNOP)	28553-12-0 (DINP) 26761-40-0 (DIDP) 417-84-0 (DNOP)	4000 ppm of the plasticized material by weight	This applies to children's toy that can be placed in a child's mouth or child care articles.
D008	Polyvinyl Chloride	—	Manage the material weights in cases where this substance is intentionally added	
D009	Radioactive substances Details: Table 2c.	—	Intentionally added	
D101	Carcinogenic, mutagenic or toxic substances for reproduction (CMRs) Details are referred to *1.	—	Intentionally added	
D102	Persistent, bioaccumulative and toxic substances (PBTs), Very persistent and very bioaccumulative substances (vPvBs) Details are referred to *2.	—	Intentionally added	

*1 Carcinogenic, mutagenic or toxic substances for reproduction (CMRs) are substances meeting the criteria for classification as carcinogenic, mutagenic or toxic for reproduction category 1 or 2 in accordance with Appendix VI Table 3.2 in EU Regulation on CLP shown as the following URL.
EU Regulation on Classification, Labelling and Packaging of substances and mixtures) Annex VI :
http://ec.europa.eu/enterprise/sectors/chemicals/files/ghs/w_annex_vi_table_3_2_en.doc

*2 Persistent, bioaccumulative and toxic substances (PBTs) and Very persistent and very bioaccumulative substances (vPvBs) are substances in accordance with the criteria set out in Annex XIII of this Regulation, which are PBT substances released in the website of European Chemical Substances Information System (ESIS) shown as the following URL.
European chemical Substances Information System (ESIS):
<http://esis.jrc.ec.europa.eu/index.php?PGM=pbt>

Table1a. Brominated Flame Retardants (other than PBB, PBDE and HBCDD)

Brominated Flame Retardants (other than PBB, PBDE and HBCDD)	CAS No.
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	—
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	—
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]	—
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls in combination with antimony compounds]	—
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]	—
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(42) [Brominated organic phosphorus 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'-Tetrabromo-bisphenol A (TBBA)	79-94-7
TBBA, unspecified	30496-13-0
TBBA-epichlorhydrin 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
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-dibromo-propyl-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-dibromo-propyl-ether)	42757-55-1
2,4-Dibromo-phenol	615-58-7
2,4,6-Tribromo-phenol	118-79-6
Pentabromo-phenol	608-71-9
2,4,6-Tribromo-phenyl-allyl-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-ethyl)-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
Dibromo-propanol	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

Brominated Flame Retardants (other than PBB, PBDE and HBCDD)	CAS No.
Poly-dibromo-styrene	31780-26-4
Bromo-/Chloro-paraffins	68955-41-9
Bromo-/Chloro-alpha-olefin	82600-56-4
Vinylbromide	593-60-2
Tris-(2,3-dibromo-propyl)-isocyanurate	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
Pentabromo-toluene	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
Tribromo-bisphenyl-maleinimide	59789-51-4
Brominated trimethylphenyl-lindane	—
Other Brominated Flame Retardants	—
Tetrabromo-cyclo-octane	31454-48-5
1,2-Dibromo-4-(1,2-dibromo-methyl)-cyclo-hexane	3322-93-8
TBPA Na salt	25357-79-3
Tetrabromo phthalic-anhydride	632-79-1