■ 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. | | Remarks |
|-----------------|---|---|---|--|
| NO | Substance Name | CAS NO. | Managing levels | reiliai K5 |
| D001 | Beryllium Oxide (BeO) | 1304-56-9 | 1000 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 2 b. | = | Intentionally added | |
| D004 | Fermaldehyde | 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) 117-84-0 (DNOP) | 1000 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) AnnexVI: 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 fiame retardant which comes under notation of ISO1043-4 code number FR(14) [Alphatic/alicyclic brominated compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(15) [Alphatic/alicyclic brominated compounds in combination with antimony compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(16) [Alphatic/alicyclic brominated compounds in combination with antimony 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) [Alphatic/alicyclic chlorinated and brominated compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(22) [Alphatic/alicyclic chlorinated and brominated compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(26) [Brominated organic phosphorus compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(26) [Brominated organic phosphorus compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(26) [Brominated organic phosphorus compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(26) [Brominated organic phosphorus compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(26) [Brominated organic phosphorus compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(26) [Brominated compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(26) [Brominated compounds] Brominated flame retardant which comes flame fla | Brominated Flame Retardants (other than PBB, PBDE and HBCDD) | CAS No. |
|--|---|-------------|
| number FR(14) [Aliphatic/alicyclic brominated compounds] Brominated filame retardant which comes under notation of ISO1043-4 code number FR(15) [Aliphaticalicyclic brominated compounds in combination with antimony compounds] Brominated filame retardant which comes under notation of ISO1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls] Brominated filame 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 filame retardant which comes under notation of ISO1043-4 code number FR(17) [Aromatic brominated compounds] Brominated filame retardant which comes under notation of ISO1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds] Brominated filame retardant which comes under notation of ISO1043-4 code number FR(42) [Brominated organic phosphorus compounds] Brominated filame retardant which comes under notation of ISO1043-4 code number FR(42) [Brominated organic phosphorus compounds] Brominated filame retardant which comes under notation of ISO1043-4 code number FR(42) [Brominated organic phosphorus compounds] Brominated filame retardant which comes under notation of ISO1043-4 code number FR(42) [Brominated organic phosphorus compounds] Brominated filame retardant which comes under notation of ISO1043-4 code number FR(42) [Brominated organic phosphorus compounds] Brominated epoxylemen organic phosphorus compounds and phosphorus compoun | · · · · · · · · · · · · · · · · · · · | CAS NO. |
| number FR(16) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl either and biphenyls] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl either 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(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] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(42) [Aliphatic/alicyclic chlorinated and brominated 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(22) [Aliphatic/alicyclic chlorinated and brominated compounds] Brominated flame retardant which comes under notation of ISO1043-4 code number FR(22) [Aliphatic/alip | | _ |
| number FR(16) (Aromatic brominated compounds excluding brominated diphenyl after and biphenyls) Brominated flame retardant which comes under notation of ISO1043-4 code number FR(17) (Aromatic brominated compounds excluding brominated diphenyl either 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) Brominated flame retardant which comes under notation of ISO1043-4 code number FR(42) (Brominated organic phosphorus compounds) Brominated flame retardant which comes under notation of ISO1043-4 code number FR(42) (Brominated organic phosphorus compounds) Brominated flame retardant which comes under notation of ISO1043-4 code number FR(42) (Brominated organic phosphorus compounds) Brominated flame retardant which comes under notation of ISO1043-4 code number FR(42) (Brominated organic phosphorus compounds) Browniated Islame retardant which comes under notation of ISO1043-4 code number FR(42) (Brominated and ISO1043-4 code number FR(42) (Brominated ISO1044-2 (Brominated ISO1044) (Brominated ISO10444) (Brominated | number FR(15) [Aliphatic/alicyclic brominated compounds in combination with | ı |
| number FR(17) [Aromatic brominated compounds excluding brominated diphenyl either 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) Tetra-decabromo-diphenoxy-benzene 58965-66-5 Tetra-decabromo-diphenoxy-benzene 58965-66-5 12-Bis(2,4-fibromo-phenoxy)ethane 37953-99-1 3,5,3',5'-Tetrabromo-bisphenol A (TBBA) 79-94-7 TBBA, unspecified 30496-13-0 TBBA-cpichlorhydrin oligomer 40039-93-8 TBBA-pichlorhydrin oligomer 70682-74-5 TBBA-carbonate oligomer 128906-13-0 TBBA carbonate oligomer, phenoxy end capped 94334-66-12 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 139529-48-0 TBBA-(2,4-dibromo-propyl-ether) 21850-44-2 TBBA-bis-(2)-dibromo-propyl-ether) 21850-44-2 TBBA-bis-(2)-dibromo-propyl-ether) 25327-89-3 TBBA-bis-(2)-dibromo-propyl-ether) 25327-89-3 TBBA-bis-(2)-dibromo-phenol 118-79-6 Tetrabromo-bisphenol 5 TBBA-bis-(2,3-dibromo-phenol 118-79-6 Pentabromo-phenol 608-71-9 2,4-6-Tribromo-phenol 118-79-6 Pentabromo-phenyl-allyl-ether 13278-9-5 TBPA-dipromo-phenol 5 TBPA-dipromo-phenol 608-71-9 2,4-6-Tribromo-phenol-phenyl-allyl-ether 7750-69-1 Thytomo-phenyl-allyl-ether 7750-69-1 Thytomo-phenyl-allyl-ether 7750-69-1 Thytomo-phenyl-allyl-ether 7750-69-1 Thytomo-phenyl-allyl-ether 7750-69-1 Thytomo-phenyl-allyl-ether 7750-69-1 Thytomo-popenyl-alcohol 96-13-9 Tribromo-popenyl-alcohol 96-13-9 Tribromo-popenyl-alcohol 96-13-9 Tribromo-popenyl-alcohol 96-13-9 Tribromo-popenyl-alcohol 96-13-9 Tribromo-styrene 61388-41-1 | number FR(16) [Aromatic brominated compounds excluding brominated diphenyl | - |
| Brominated flame retardant which comes under notation of ISO1043-4 code number FR(22) [Rominated organic phosphorus compounds] Poly(2,6-dibromo-phenylene oxide) Foly(2,6-dibromo-phenylene oxide) Foly(2,6-dibromo-phenoxy)-benzene Foly(3,6-dibromo-phenoxy)-benzene Foly(4,6-dibromo-phenoxy)-benzene Foly(4,6-dibromo-phenoxy)-be | number FR(17) [Aromatic brominated compounds excluding brominated diphenyl | - |
| number FR(42) [Brominated organic phosphorus compounds] 69882-11-7 Poly(z,6-dibromo-phenylene oxide) 69882-11-7 Tetra-decabromo-diphenoxy-benzene 58965-66-5 1.2-Bis(z,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-cabonate oligomer 28906-13-0 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-dis-(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-bitromo-phenol 61 | | 1 |
| Tetra-decabromo-diphenoxy-benzene | | - |
| 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-depichlorhydrin oligomer 40039-93-8 TBBA-apichlorhydrin oligomer 70682-74-5 TBBA carbonate oligomer 28906-13-0 TBBA carbonate oligomer, phenoxy end capped 94334-64-2 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 bis-(2,3-dibromo-propyl-ether) 21850-44-2 TBBA bis-(2,3-dibromo-propyl-ether) 21850-44-2 TBBA-bis-(allyl-ether) 25327-89-3 TBBA-dimethyl-ether 37853-61-5 TBBS-bis-(2,3-dibromo-propyl-ether) 42757-55-1 2,4-Dibromo-phenol 615-58-7 2,4-Birbormo-phenol <t< td=""><td>Poly(2,6-dibromo-phenylene oxide)</td><td>69882-11-7</td></t<> | Poly(2,6-dibromo-phenylene oxide) | 69882-11-7 |
| 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-(allyl-ether) 21850-44-2 TBBA-bis-(allyl-ether) 25327-89-3 TBBA-bis-(allyl-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 618-58-7 2,4,6-Tribromo-phenol 608-71-9 2,4,6-Tribromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether, unspecified 26762-91-4 | Tetra-decabromo-diphenoxy-benzene | 58965-66-5 |
| 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) 21850-44-2 TBBA-dimethyl-ether 37853-61-5 TBBA-dimethyl-ether 37853-61-5 TBBS-bis-(2,3-dibromo-propyl-ether) 42757-55-1 2,4-Dibromo-phenol 615-58-7 2,4,6-Tribromo-phenol 615-58-7 2,4,6-Tribromo-phenol 118-79-6 Pentabromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether, unspecified 26762-91-4 Bis((methyl))tetrabromo-phthalate 26040-51-7 < | 1,2-Bis(2,4,6-tribromo-phenoxy)ethane | 37853-59-1 |
| 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-c), 2-dibromo-propyl-ether) 21850-44-2 TBBA-dis-(2,3-dibromo-propyl-ether) 21850-44-2 TBBA-bis-(2)-hydroxy-ethyl-ether) 4162-45-2 TBBA-bis-(2-lyly-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 615-58-7 2,4,6-Tribromo-phenol 118-79-6 2,4,6-Tribromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether, unspecified 26762-91-4 Bis(2-ethylhexyl)tetrabromo-phthalate 26040-51-7 | 3,5,3',5'-Tetrabromo-bisphenol A (TBBA) | 79-94-7 |
| 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) 21850-44-2 TBBA-bis-(allyl-ether) 25327-89-3 TBBA-bis-(allyl-ether) 37853-61-5 TBBA-bis-(allyl-ether) 37853-61-5 TBBS-bis-(2,3-dibromo-propyl-ether) 42757-55-1 2,4-Dibromo-bisphenol S 39635-79-5 TBBS-bis-(2,3-dibromo-propyl-ether) 42757-55-1 2,4,6-Tribromo-phenol 615-58-7 2,4,6-Tribromo-phenol 608-71-9 2,4,6-Tribromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether, unspecified 608-71-9 Bis(methyl)tetrabromo-phthalate 26762-91-4 | TBBA, unspecified | 30496-13-0 |
| 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) 21850-44-2 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 2,4,6-Tribromo-phenol 615-58-7 2,4,6-Tribromo-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(methyl)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 | TBBA-epichlorhydrin oligomer | 40039-93-8 |
| 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 139638-88-7 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-(2llyl-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-Dibromo-phenol 615-58-7 2,4-Firibromo-phenol 118-79-6 Pentabromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether, unspecified 26762-91-4 Bis(methyl)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) 32 | TBBA-TBBA-diglycidyl-ether oligomer | 70682-74-5 |
| 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-bis-(clayl-ether) 25327-89-3 TBBA-bis-(clayl-ether) 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-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether, unspecified 26762-91-4 Bis(cethyl)tetrabromo-phthalate 55481-60-2 Bis(2-ethylhexyl)tetrabromo-phthalate 26040-51-7 2-Hydroxy-propyl-2-(2-hydroxy-ethyl)-ethyl-TBP 2656-52-2 TBPA, glycol-and propylene-oxide esters 75790-69-1 N.N'-Ethylene-bis-(tetrabromo-phthallmide) 32588-76-4 Ethylene-bis-(fettrabromo-phthallimide) | TBBA carbonate oligomer | 28906-13-0 |
| 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-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether 3278-89-5 | TBBA carbonate oligomer, phenoxy end capped | 94334-64-2 |
| 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-Dibromo-phenol 118-79-6 Pentabromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether, unspecified 26762-91-4 Bis(methyl)tetrabromo-phthalate 26762-91-4 Bis(2-ethylhexyl)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 | TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated | 71342-77-3 |
| Brominated epoxy resin end-capped with tribromophenol | TBBA-bisphenol A-phosgene polymer | 32844-27-2 |
| 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-phenyl-allyl-ether 3278-89-5 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-propanol 96-13-9 Tribromo-neopentyl-glycol 36483-57-5 Poly tribromo-styrene 57137-10-7 Tribromo-styrene <td< td=""><td>Brominated epoxy resin end-capped with tribromophenol</td><td>139638-58-7</td></td<> | Brominated epoxy resin end-capped with tribromophenol | 139638-58-7 |
| 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-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-neopentyl-alcohol 36483-57-5 Poly tribromo-styrene 57137-10-7 Tribromo-styrene 61368-34-1 | Brominated epoxy resin end-capped with tribromophenol | 135229-48-0 |
| 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-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-neopentyl-alcohol 36483-57-5 Poly tribromo-styrene 57137-10-7 Tribromo-styrene 57137-10-7 Tribromo-styrene 61368-34-1 | TBBA-(2,3-dibromo-propyl-ether) | 21850-44-2 |
| 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-phenyl-allyl-ether 3278-89-5 Tribromo-phenyl-allyl-ether, unspecified 26762-91-4 Bis(methyl)tetrabromo-phthalate 26762-91-4 Bis(methyl)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-neopentyl-alcohol 36483-57-5 Poly tribromo-styrene 57137-10-7 Tribromo-styrene 61368-34-1 | TBBA bis-(2-hydroxy-ethyl-ether) | 4162-45-2 |
| 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 | TBBA-bis-(allyl-ether) | 25327-89-3 |
| 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 | TBBA-dimethyl-ether | 37853-61-5 |
| 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 | Tetrabromo-bisphenol S | 39635-79-5 |
| 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 | · | 42757-55-1 |
| 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 | | 615-58-7 |
| 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 | | 118-79-6 |
| 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 | · | |
| 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |
| 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 | · · · · · · · · · · · · · · · · · · · | |
| 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 | | |
| 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 | | |
| 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-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-propanol 96-13-9 Tribromo-neopentyl-alcohol 36483-57-5 Poly tribromo-styrene 57137-10-7 Tribromo-styrene 61368-34-1 | | |
| Tribromo-neopentyl-alcohol 36483-57-5 Poly tribromo-styrene 57137-10-7 Tribromo-styrene 61368-34-1 | 1 | |
| Poly tribromo-styrene 57137-10-7 Tribromo-styrene 61368-34-1 | | |
| Tribromo-styrene 61368-34-1 | | |
| | | |
| | Dibromo-styrene grafted PP | |

| 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 |