Prohibited substances (A) are ones which must not be contained in products, and their uses are prohibited in principle (except when there is an exemption based on laws and regulations).
If each regulation has a threshold, follow those conditions.

- Delivery of Dechlorane Plus (A40) and UV-328 (A41) will be prohibited after January 1, 2025. However, the date of ban on delivery may be changed depending on the situation.
: Managed Substances
Managed substances (B) are ones which conform to "JAMP declarable substances" given by "Joint Article Management Promotion-consortium" (JAMP),
Although it is not limited to contain these substances in products intentionally, whether any product contains these substances or not should be understood and reported and
If they ane
s of March 29, 2024

|  |  |  |  | Major Applicable Laws and Regulations |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | Substance/Substance Group | Examples (CAS RN ${ }^{\text {® }}$ ) <br> (Not all substances are included, but give only examples.) | Threshold Level | Chemical Substances Control Law | EU-RoHS | POPs | REACH SVHC | REACH Annex XVII | IEC 62474 Reported Substance | (TSCA | Others |
| A 01 | Asbestos | Asbestos (1332-21-4) <br> Actinolite (77536-66-4) <br> Amosite (12172-73-5) etc. | Intentionally added |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 02 | Polybrominated biphenyls (PBBs) | Polybrominated biphenyls (1336-36-3) <br> Pentachlorobiphenyls (25429-29-2) etc. | Intentionally added | $\bigcirc$ |  | $\bigcirc$ |  |  | $\bigcirc$ |  |  |
| A 03 | Cadmium/Cadmium compounds | Cadmium (7440-43-9) <br> Cadmium oxide (1306-19-0) <br> Cadmium sulfide (1306-23-6) etc. | Conditional prohibition |  | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |
| A 04 | Lead/Lead compounds | Lead (7439-92-1) Lead (IV) oxide (1309-60-0) Lead (II) carbonate (598-63-0) etc. | Conditional prohibition |  | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |
| A 05 | Mercury/Mercury compounds | Mercury (7439-97-6) <br> Mercury chloride (II) (7487-94-7) <br> Mercuric (II) oxide (21908-53-2) etc. | Conditional prohibition |  | $\bigcirc$ |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 06 | Chromium (VI) Compounds | Chromium trioxide (1333-82-0) Calcium chromate (13765-19-0) etc. | Conditional prohibition |  | $\bigcirc$ |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 07 | Polybrominated diphenylethers (PBDEs) | Monobromodiphenyl ether (101-55-3) <br> Dibromodiphenyl ether (2050-47-7) <br> Tribromodiphenyl ether (49690-94-0) <br> Tetrabromodiphenyl ether (40088-47-9) <br> Pentabromodiphenyl ether (32534-81-9) <br> Hexabromodiphenyl ether (36483-60-0) <br> Heptabromodiphenyl ether (68928-80-3) <br> Octabromodiphenyl ether (32536-52-0) <br> Nonabromodiphenyl ether (63936-56-1) etc. | Conditional prohibition |  | $\bigcirc$ |  |  |  | $\bigcirc$ |  |  |
| A 08 | Polybrominated biphenyls (PBBs) | Monobromobiphenyl (2052-07-5) <br> Dibromobiphenyl (92-86-4) <br> Tribromobiphenyl (59080-34-1) <br> Tetrabromobiphenyl (40088-45-7) <br> Pentabromobiphenyl (56307-79-0) <br> Hexabromobiphenyl (59080-40-9) <br> Heptabromobiphenyl (35194-78-6) <br> Octabromobiphenyl (61288-13-9) <br> Nonabromobiphenyl (27753-52-2) <br> Decabromobiphenyl (13654-09-6) etc. | Conditional prohibition |  | $\bigcirc$ |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 09 | Perfluorooctane sulfonates (PFOS) | Perfluorooctane sulfonate (1763-23-1) <br> Perfluorooctane sulfonate fluoride (307-35-7) etc. | Intentionally added | $\bigcirc$ |  | $\bigcirc$ |  |  | $\bigcirc$ |  |  |
| A 10 | Polychlorinated naphthalenes(PCNs) | Polychloronapthalenes (70776-03-3) <br> Pentachloronaphthalene (1321-64-8) etc. | Intentionally added | $\bigcirc$ |  | $\bigcirc$ |  |  | $\bigcirc$ |  |  |
| A 11 | Arsenic/Arsenic compounds <br> (Prohibition of use on wood, clothing or accessories, footwear, etc..) | Arsenic (7440-38-2) <br> Arsenic pentoxide (1303-28-2) etc. | Intentionally added |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 12 | Tri-substituted organostannic compounds (including tributyltin (TBT) and triphenyltin (TPT)) | Tributyltinacetate (56-36-0) Triphenyltinfluoride (379-52-2) etc. | Intentionally added |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 13 | Ozone depleting substances (ODS) | Trichlorofluoromethane (CFC-11) (75-69-4) <br> Chloromethane (methyl chloride) (74-87-3) etc. | Intentionally added |  |  |  |  |  | $\bigcirc$ |  |  |
| A 14 | Alkanes, C10-13, chloro (Short chain chlorinated paraffins) | Alkanes, C10-13, chloro (85535-84-8) <br> Alkanes, C10-12, chloro (108171-26-2) etc. | Intentionally added | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  | $\bigcirc$ |  |  |
| A 15 | Polychlorinated terphenyls (PCTs) | Polychlorinated terphenyls (61788-33-8) etc. | Intentionally added |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 16 | Dimethyl fumarate (DMF) | Dimethyl fumarate (624-49-7) | Intentionally added |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 17 | Bis (2-ethylhexyl) phthalate (DEHP) | Bis (2-ethylhexyl) phthalate (117-81-7) | Conditional prohibition |  | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |
| A 18 | Dibuty phthalate (DBP) | Dibuty phthalate (84-74-2) | Conditional prohibition |  | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ | - |  |  |
| A 19 | Butyl benzyl phthalate (BBP) | Butyl benzyl phthalate (85-68-7) | Conditional prohibition |  | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |
| A 20 | Diisobuty Phthalate (DIBP) | Diisobutyl phthalate (84-69-5) | Conditional prohibition |  | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |
| A 21 | Hexabromocyclododecane (HBCD/HBCDD) | Hexabromocyclododecane (25637-99-4) <br> a-Hexabromocyclododecane (134237-50-6) etc. | Intentionally added | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  | $\bigcirc$ |  |  |
| A 22 | Azocolourants and azodyes which form certain aromatic amines | Biphenyl-4-ylamine (92-67-1) <br> Benzidine (92-87-5) etc. | Intentionally added |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 23 | Cobalt dichloride | Cobalt dichloride (7646-79-9) | Intentionally added |  |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |
| A 24 | 2-(2H-1,2,3-benzotriazol-2-il)-4,6-di-tert-butylphenol | 2-(2H-1,2,3-benzotriazol-2-il)-4,6-di-tert-butylphenol (3846- $71-7$ ) | Intentionally added | $\bigcirc$ |  |  | $\bigcirc$ |  | $\bigcirc$ |  |  |
| A 25 | Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances | Perfluorooctanoic acid (335-67-1) <br> Sodium salt of Perfluorooctanoic acid (335-95-5) <br> Methyl perfluorooctanoate (376-27-2) etc. | Intentionally added | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  | $\bigcirc$ |  |  |
| A 26 | Radioactive substances | Uranium (7440-61-1) <br> Radon (10043-92-2) etc. | Intentionally added |  |  |  |  |  | $\bigcirc$ |  |  |
| A 27 | Bis(tributyltin)oxide (TBTO) | Bis(tributyltin) oxide (56-35-9) | Intentionally added | - |  |  |  | $\bigcirc$ | - |  |  |
| A 28 | Dibutyltin (DBT) compounds | Dibutyltin oxide (818-08-6) Dibutyltin diacetate (1067-33-0) etc. | Conditional prohibition |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 29 | Dioctyltin (DOT) compounds | Dioctyltin oxide (87-08-6) Dioctyltin dilaurate (3648-18-8) etc. | Conditional prohibition |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |


| No. | Substance/Substance Group | Examples (CAS RN ${ }^{\text {® }}$ ) <br> (Not all substances are included, but give only examples.) | Threshold Level | Major Applicable Laws and Regulations |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Chemical <br> Substances <br> Control Law | EU-RoHS | POPs | REACH SVHC | REACH Annex XVII | IEC 62474 Reported Substance | TSCA PBT | Others |
| A 30 | Perfluorohexanesulphonic acid (PFHxS), its salts and PFHxSrelated substances | Perfluorohexanesulphonic acid (355-46-4) <br> Sodium perfluorohexanesulfonate (82382-12-5) etc. | Intentionally added | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  |  |  |  |
| A 31 | Perfluorocarboxylic acids (PFCAs) C9-C14, its salts and PFCAsrelated substances | Perfluorononanoic acid (375-95-1) <br> Perfluorodecanoic acid (335-76-2) etc. | Intentionally added |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| A 32 | Decabromodiphenyl ether (Decaibie) | Decabromodiphenyl ether (1163-19-5) | Intentionally added | - | - | - | - |  | - | - |  |
| A 33 | Phenol, Isopropylated, Phosphate (3:1) (PIP (3:1)) | Phenol, Isopropylated, Phosphate (3:1) (68937-41-7) | Intentionally added |  |  |  |  |  | - | - |  |
| A 34 | 2,4,6-Tris(tert-butyl)phenol (TTBP) | 2,4,6-Tris(tert-buty) phenol (732-26-3) | Conditional prohibition | - |  |  |  |  |  | - |  |
| A 35 | Hexachlorobutadiene (HCBD) | Hexachlorobutadiene (87-68-3) | Intentionally added | $\bigcirc$ |  | - |  |  |  | - |  |
| A 36 | Pentachlorothiophenol (PCTP) | Pentachlorothiophenol (133-49-3) | Conditional prohibition |  |  |  |  |  |  | - |  |
| A 37 | Polyvinyl chloride (PVC) /PVC compounds (Prohibition of use for packaging and cases) | Polyvinyl chloride (9002-86-2) | Intentionally added |  |  |  |  |  |  |  | ○*1 |
| A 38 | Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings <br> (Prohibition of mineral oils on packaging and printing) | Toluene (95-47-6) <br> Xylene (108-88-3) <br> Anthracene (120-12-7) etc. | Conditional prohibition |  |  |  |  |  |  |  | O*2 |
| A 39 | Hexachlorobenzene | Hexachlorobenzene (118-74-1) | Conditional prohibition | $\bigcirc$ |  | $\bigcirc$ |  | $\bigcirc$ |  |  |  |
| A 40 | Dechlorane Plus | Dechlorane Plus (13560-89-9) <br> Anti-isomers (135821-74-8) <br> Syn-isomers (135821-03-3) | Intentionally added | (1) <br> Scheduled for enforcement |  | $\bigcirc$ | - |  |  |  |  |
| A 41 | 2-(2H-1,2,3-Benzotri azol-2-yl)-4,6-di-tert pentylphenol (UV-328) | 2-(2H-1,2,3-Benzotri azol-2-yl)-4,6-di-tert pentylphenol (25973-55-1) | Intentionally added | (1) Scheduled for enforcement |  | $\bigcirc$ | $\bigcirc$ |  |  |  |  |


| No. | Substance/Substance Group | Examples (CAS RN ${ }^{\text {® }}$ ) <br> (Not all substances are included, but give only examples.) | Major Applicable Laws and Regulations |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Chemical Substances Control Law | EU-RoHS | POPs | REACH SVHC | REACH Annex XVII | IEC 62474 Reported Substance | TSCA PBT | Others |
| B 01 | Antimony/Antimony compounds (including alloy) | Antimony (7440-36-0) <br> Sodium antimonate (15432-85-6) etc. |  |  |  |  |  |  |  |  |
| B 02 | Beryllium/Beryllium compounds (including alloy) | Berylium (7440-41-7) Beryllium oxide (1304-56-9) etc. |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| B 03 | Brominated flame retardants (other than PBBs, PBDEs or HBCDDs) | TBBA-(2,3-dibromopropyl ether) (21850-44-2) etc. |  |  |  |  |  | $\bigcirc$ |  |  |
| B 04 | Nickel/Nickel compounds | Nickel (7440-02-0) <br> Nickel ( II) sulfate hexahydrate (10101-97-0) Nickel oxide (11099-02-8) etc. |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| B 05 | Polyvinyl chloride (PVC)/PVC compounds (other than packaging and cases) | Polyvinyl chloride (9002-86-2) |  |  |  |  |  |  |  |  |
| B 06 | Selenium/Selenium compounds (including alloy) | Selenium (7782-49-2) <br> Selenious acid (7783-00-8) etc. |  |  |  |  |  |  |  |  |
| B 07 | Perchlorates | Lithium perchlorate (7791-03-9) etc. |  |  |  |  |  | $\bigcirc$ |  |  |
| B 08 | Fluorinated greenhouse gases (PFC, HFC, SF6) | Carbon tetrafluoride (PFC) (75-73-0) <br> Trifluoromethane (HFC) (75-46-7) <br> Sulfur hexafluoride (SF6) (2551-62-4) etc. |  |  |  |  |  | $\bigcirc$ |  |  |
| B 09 | Chlorinated flame retardants | Tetrakis(2-chloroethyl) dichloroisopentyldiphosphate (38051-10-4) Tris(1-chloro-2-propyl) phosphate (13674-84-5) etc. |  |  |  |  |  | $\bigcirc$ |  |  |
| B 10 | Formaldehyde | Formaldehyde (50-00-0) |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| B 11 | Restricted substances of REACH Regulation (Annex XVII) | - |  |  |  |  | $\bigcirc$ |  |  |  |
| B 12 | SVHCs of REACH Regulation <br> (Annex XIV (Approved substances) + Candidate substances <br> for authorization) | - |  |  |  | $\bigcirc$ |  |  |  |  |
| B 13 | IEC62474 | - |  |  |  |  |  | $\bigcirc$ |  |  |
| B 14 | JAMP controlled substances (chemSHERPA) | - |  |  |  |  |  |  |  |  |
| B 15 | Perfluoroalkyl substances (PFAS) | 1,1,2-trichloro-1,2,2-trifluoroethane (76-13-1) Perfluorobutanesulfonyl fluoride (375-72-4) etc. |  |  |  |  |  |  |  | O*3 |
| B 16 | Tetrabromobisphenol A (TBBPA) | Tetrabromobisphenol A (79-94-7) |  | candidate |  |  |  |  |  |  |
| B 17 | Alkanes, C14-17, chloro (Medium chain chlorinated paraffins) | Alkanes, C14-17, chloro (85535-85-9) etc. |  |  | candidate |  |  |  |  |  |
| B 18 | Long-chain perfluorocarboxylic acids (LC-PFCAs), their salts and LC-PFCAs-related substances | Perfluorodecanoic Acid (335-76-2) <br> Perfluorododecanoic Acid (307-55-1) etc. |  |  | candidate |  |  |  |  |  |
| B 19 | Decabromodiphenylethane | Decabromodiphenylethane (84852-53-9) |  |  |  |  |  |  |  | candidate*4 |

Others
$*_{1}$
*1 Korea ; Act on the Promotion of Saving and Recycling of Resource
*2 France ; French Circular Economy Law
${ }^{*}$ _3 [USA] State of Maine ; An Act to Stop Perfluoroalkyl and Polyfluoroalkyl Substances Pollution
*4 Canada ; Prohibition of Certain Toxic Substances Regulations

