

Related document 1: JVC KENWOOD Specific Chemicals List (Substance group/Substance)
(For Commercial, consumer, and business product)

Ver.1.4

NO.	Category	Substance Name (Japanese)	Substance Name (English)	Threshold (Reporting Level)	Remarks
1	Regulated/R	カドミウム/カドミウム化合物	Cadmium/cadmium compounds	1. 0.01% by weight(100 ppm) of homogeneous materials 2. 0.0005% by weight(5 ppm) of battery 3. The total value of four Substance must be 0.01% by weight(100 ppm) or less for the packaging material. 4. Intentional addition is prohibited to the plastics material.	*2*6
2	Regulated/R	六価クロム化合物	Chromium VI compounds	1. 0.1 % by weight(1,000 ppm) of homogeneous materials 2. The total value of four Substance must be 0.01% by weight(100 ppm) or less for the packaging material.	*6
3	Regulated/R	鉛/鉛化合物	Lead/lead compounds	1. 0.1 % by weight (1,000 ppm) of homogeneous materials 2. 0.03% by weight (300 ppm) of surface coating of Cables/cords product 3. 0.004% by weight(40 ppm) of battery 4. 0.01% by weight(100 ppm) of children's product 5. 0.009% by weight of surface coating of children's product 6. The total value of four Substance must be 0.01% by weight(100 ppm) or less for the packaging material.	*2*6 *10
4	Regulated/R	水銀/水銀化合物	Mercury/mercury compounds	1. Intentionally added 2. 0.1% (1,000 ppm) at homogeneous material 3. 0.0001% by weight (1 ppm) of battery 4. The total value of four Substance must be 0.01% by weight(100 ppm) or less for the packaging material.	*2*6
5	Regulated/R	アスベスト類	Asbestos	Intentionally added	
6	Regulated/R	一部の芳香族アミンを生成するアゾ染料・顔料	Azocolourants and azodyes which form certain aromatic amines	0.003% by weight (30 ppm) of the finished textile/leather product	*1
7	Regulated/R	オゾン層破壊物質	Ozone depleting substances	Intentionally added	
8	Regulated/R	フッ素系温室効果ガス (PFC, SF6, HFC)	Fluorinated greenhouse gases (PFC, SF6, HFC)	Intentionally added	
9	Regulated/R	パーフルオロオクタンスルホン酸 (PFOS) 及びその塩	Perfluorooctane sulfonate (PFOS)	Intentionally added	
10	Regulated/R	過塩素酸塩	Perchlorates	0.0000006 % by weight (0.006 ppm) of the product	
11	Regulated/R	ポリ臭化ビフェニル類 (PBB類)	Polybrominated biphenyls (PBBs)	0.1 % by weight(1,000 ppm) in homogeneous material	
12	Regulated/R	ポリ臭化ジフェニルエーテル類 (PBDE類)	Polybrominated diphenylethers (PBDEs)	0.1 % by weight(1,000 ppm) in homogeneous material	
13	Regulated/R	ジブチルスズ化合物 (DBT)	Dibutyltin (DBT) compounds	0.1 % by weight(1,000 ppm) of tin in a material	
14	Regulated/R	ジオクチルスズ化合物 (DOT)	Diocetyl tin (DOT) compounds	0.1 % by weight(1,000 ppm) of tin in a material	
15	Regulated/R	一部のフタル酸エステル類	Selected Phthalates	0.1 % by weight(1,000 ppm) in plasticized material	*10
16	Regulated/R	ポリ塩化ビフェニル類 (PCB類) および特定代替品	Polychlorinated biphenyls (PCBs) and specific substitutes	intentionally added	
17	Regulated/R	ポリ塩化ターフェニル類 (PCT類) および特定代替品	Polychlorinated terphenyls (PCTs)	intentionally added	
18	Regulated/R	ポリ塩化ナフタレン (塩素原子数が3以上)	Polychlorinated naphthalenes (more than 3 chlorine atoms)	intentionally added	
19	Regulated/R	放射性物質	Radioactive substances	intentionally added	
20	Regulated/R	三置換有機スズ化合物	Tri-substituted organostannic compounds	0.1 % by weight(1,000 ppm) of tin in a material	*3

continues to next page.

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21	Information/I	臭素系難燃剤 (PBB 類、PBDE 類、HBCDDを除く)	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	1. 0.1 % by weight(1,000 ppm) of plastic material 2. 0.09% total bromine content by weight in the Printed wiring board laminate	*7
22	Regulated/R	ジメチルフマレート (フマル酸ジメチル)	Dimethyl fumarate	0.00001% by weight (0.1 ppm) in a material	*3
23	Regulated/R	2-(2H-1,2,3-ベンゾトリアゾール-2-イル)-4,6-ジ-tert-ブチルフェノール	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	intentionally added	
24	Regulated/R	ホルムアルデヒド	Formaldehyde	1. intentionally added (Composite wood, plywood, particle board, MDF products or components) 2. 0.0075%by weight(75 ppm) of textile product	*4
25	Regulated/R	ニッケル	Nickel	Intentionally added(All, where prolonged skin contact is expected)	*5
26	Regulated/R	短鎖型塩化パラフィン類(C10 – C13)	Shortchain chlorinated paraffins (C10 – C13)	0.1 % by weight(1,000 ppm) of product	
27	Regulated/R	トリブチルスズ=オキシド(TBTO)	Tributyl tin oxide(TBTO)	1. Intentionally added 2. 0.1 % by weight (1,000 ppm) of the product	
28	Information/I	酸化ベリリウム(BeO)	Beryllium oxide (BeO)	0.1% by weight (1,000 ppm) of the product	
29	Information/I	ポリ塩化ビニル(PVC)	Polyvinyl chloride (PVC)	0.1% by weight (1,000 ppm) of the product	
30	Information/I	REACH SVHC	REACH SVHC	Please refer to the following.	*8

REACH SVHC(Candidate List of Substances of Very High Concern for authorisation)

1	Information/I (REACH SVHC)	重クロム酸ナトリウム・2水和物	Sodium dichromate	0.1% by weight (1,000 ppm) of the product	*8
2	Information/I (REACH SVHC)	トリブチルスズ=オキシド(TBTO) ビス(トリブチルスズ)=オキシド	Tributyl Tin Oxide (TBTO) Bis(tributyltin)oxide	1. Intentionally added 2. 0.1 % by weight (1,000 ppm) of the product	*8
3	Information/I (REACH SVHC)	短鎖型塩化パラフィン (炭素鎖長:10~13の短鎖型塩化パラフィンを対象とする。)	Alkanes, C10-13, chloro Short Chain Chlorinated Paraffins	1. Intentionally added 2. 0.1 % by weight (1,000 ppm) of the product	*8
4	Information/I (REACH SVHC)	4,4'-メチレンジアニリン	4,4'- Diaminodiphenylmethane (MDA)	0.1% by weight (1,000 ppm) of the product	*8
5	Information/I (REACH SVHC)	五酸化二ヒ素	Diarsenic pentaoxide	0.1% by weight (1,000 ppm) of the product	*8
6	Information/I (REACH SVHC)	三酸化二ヒ素(亜ヒ酸)	Diarsenic trioxide	0.1% by weight (1,000 ppm) of the product	*8
7	Information/I (REACH SVHC)	ヒ酸トリエチル	Triethyl arsenate	0.1% by weight (1,000 ppm) of the product	*8
8	Information/I (REACH SVHC)	ヒ酸鉛	Lead hydrogen arsenate	0.1% by weight (1,000 ppm) of the product	*8
9	Information/I (REACH SVHC)	フタル酸n-ブチル=ベンジル	Benzyl butyl phthalate (BBP)	0.1% by weight (1,000 ppm) of the product	*8
10	Information/I (REACH SVHC)	フタル酸ジ-n-ブチル、 フタル酸ジブチル	Dibutyl phthalate (DBP)	0.1% by weight (1,000 ppm) of the product	*8
11	Information/I (REACH SVHC)	フタル酸ビス(2-エチルヘキシル)	Bis(2-ethylhexyl)phthalate(DEHP)	0.1% by weight (1,000 ppm) of the product	*8
12	Information/I (REACH SVHC)	ヘキサブロモシクロドデカン (およびすべての主要ジアステレオ異性体混合物)	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	0.1% by weight (1,000 ppm) of the product	*8
13	Information/I (REACH SVHC)	アントラセン	Anthracene	0.1% by weight (1,000 ppm) of the product	*8 *9
14	Information/I (REACH SVHC)	塩化コバルト(II)	Cobalt dichloride	0.1% by weight (1,000 ppm) of the product	*8 *9
15	Information/I (REACH SVHC)	2,4,6-トリニトロ-5-tert-ブチル-1,3-キシレン (ムスクキシレン)	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	0.1% by weight (1,000 ppm) of the product	*8 *9
16	Information/I (REACH SVHC)	2,4-ジニトロトルエン	2,4-Dinitrotoluene	0.1% by weight (1,000 ppm) of the product	*8 *9
17	Information/I (REACH SVHC)	アントラセン油	Anthracene oil	0.1% by weight (1,000 ppm) of the product	*8 *9
18	Information/I (REACH SVHC)	アントラセン油(アントラセンペースト、 軽蒸留)	Anthracene oil, anthracene paste, distn. Lights	0.1% by weight (1,000 ppm) of the product	*8 *9
19	Information/I (REACH SVHC)	アントラセン油、アントラセンペースト、 アントラセン留分	Anthracene oil, anthracene paste, anthracene fraction	0.1% by weight (1,000 ppm) of the product	*8 *9
20	Information/I (REACH SVHC)	アントラセン油(アントラセン低含有)	Anthracene oil, anthracene-low; Anthracene Oil Fraction	0.1% by weight (1,000 ppm) of the product	*8 *9
21	Information/I (REACH SVHC)	アントラセンオイル、アントラセンペースト	Anthracene oil, anthracene paste	0.1% by weight (1,000 ppm) of the product	*8 *9
22	Information/I (REACH SVHC)	フタル酸ジイソブチル(DIBP)	Diisobutyl phthalate	0.1% by weight (1,000 ppm) of the product	*8
23	Information/I (REACH SVHC)	アルミノケイ酸塩、 耐火性セラミック繊維 EC No. 1272/2008の附属書VI、 パート3、表3.2において650-017- 00-8として包含される繊維で、以下の 2条件を満たす。 a) アルミナおよびシリカは、つぎの濃 度範囲内で存在すること。 Al2O3: 43.5-47 % w/w、及び SiO2: 49.5-53.5 % w/w、又は Al2O3: 45.5-50.5 % w/w、及び SiO2: 48.5-54 % w/w b) 繊維は、その長さ加重幾何平均径 からその標準誤差の2倍値を引いた 値が6µm以下であること。	Aluminosilicate, Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions: a) Al2O3 and SiO2 are present within the following concentration ranges: Al2O3: 43.5 - 47 % w/w, and SiO2: 49.5 - 53.5 % w/w, or Al2O3: 45.5 - 50.5 % w/w, and SiO2: 48.5 - 54 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).	0.1% by weight (1,000 ppm) of the product	*8 *9

24	Information/I (REACH SVHC)	ジルコニアアルミノけい酸塩、耐火性セラミック繊維 EC No. 1272/2008 の附属書VI、パート3、表3.2 において650-017-00-8として包含される繊維で、以下の2条件を満たす。 a) アルミナおよびシリカおよびジルコニアは、つぎの濃度範囲内で存在すること。 Al ₂ O ₃ : 35 – 36 % w/w、及びSiO ₂ : 47.5 – 50 % w/w、及びZrO ₂ : 15 – 17 % w/w b) 繊維は、その長さ加重幾何平均径からその標準誤差の2 倍値を引いた値が6µm以下であること。	Zirconia Aluminosilicate, Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions: a) Al ₂ O ₃ , SiO ₂ and ZrO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 35 – 36 % w/w, and SiO ₂ : 47.5 – 50 % w/w, and ZrO ₂ : 15 – 17 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).	0.1% by weight (1,000 ppm) of the product	*8 *9
25	Information/I (REACH SVHC)	クロム酸鉛	Lead chromate	0.1% by weight (1,000 ppm) of the product	*8
26	Information/I (REACH SVHC)	C.I ビグメントレッド104	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	0.1% by weight (1,000 ppm) of the product	*8
27	Information/I (REACH SVHC)	C.I ビグメントイエロー34	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	0.1% by weight (1,000 ppm) of the product	*8
28	Information/I (REACH SVHC)	リン酸トリス (2-クロロエチル) (TCEP)	Tris(2-chloroethyl)phosphate	0.1% by weight (1,000 ppm) of the product	*8 *9
29	Information/I (REACH SVHC)	コールタールピッチ (高温)	Pitch, coal tar, high temp.	0.1% by weight (1,000 ppm) of the product	*8 *9
30	Information/I (REACH SVHC)	アクリルアミド	Acrylamide	0.1% by weight (1,000 ppm) of the product	*8 *9
31	Information/I (REACH SVHC)	トリクロロエチレン	Trichloroethylene	0.1% by weight (1,000 ppm) of the product	*8 *9
32	Information/I (REACH SVHC)	ホウ酸	Boric acid	0.1% by weight (1,000 ppm) of the product	*8 *9
33	Information/I (REACH SVHC)	四ホウ酸二ナトリウム、無水物(ホウ砂)	Disodium tetraborate, anhydrous	0.1% by weight (1,000 ppm) of the product	*8 *9
34	Information/I (REACH SVHC)	四ホウ酸二ナトリウム、水和物	Tetraboron disodium heptaoxide, hydrate	0.1% by weight (1,000 ppm) of the product	*8 *9
35	Information/I (REACH SVHC)	クロム酸ナトリウム	Sodium chromate	0.1% by weight (1,000 ppm) of the product	*8
36	Information/I (REACH SVHC)	クロム酸カリウム	Potassium chromate	0.1% by weight (1,000 ppm) of the product	*8
37	Information/I (REACH SVHC)	ニクロム酸アンモニウム	Ammonium dichromate	0.1% by weight (1,000 ppm) of the product	*8
38	Information/I (REACH SVHC)	重クロム酸カリウム	Potassium dichromate	0.1% by weight (1,000 ppm) of the product	*8
39	Information/I (REACH SVHC)	硫酸コバルト(Ⅱ)	Cobalt(II) sulphate	0.1% by weight (1,000 ppm) of the product	*8 *9
40	Information/I (REACH SVHC)	硝酸コバルト(Ⅱ)	Cobalt(II) dinitrate	0.1% by weight (1,000 ppm) of the product	*8 *9
41	Information/I (REACH SVHC)	炭酸コバルト(Ⅱ)	Cobalt (II) carbonate	0.1% by weight (1,000 ppm) of the product	*8 *9
42	Information/I (REACH SVHC)	酢酸コバルト(Ⅱ)	Cobalt(II) diacetate	0.1% by weight (1,000 ppm) of the product	*8 *9
43	Information/I (REACH SVHC)	2-メトキシエタノール	2-Methoxyethanol	0.1% by weight (1,000 ppm) of the product	*8 *9
44	Information/I (REACH SVHC)	2-エトキシエタノール	2-Ethoxyethanol	0.1% by weight (1,000 ppm) of the product	*8 *9
45	Information/I (REACH SVHC)	酸化クロム(VI)	Chromium trioxide	0.1% by weight (1,000 ppm) of the product	*8
46	Information/I (REACH SVHC)	三酸化クロム及びそのオリゴマーから生じる酸(クロム酸、重クロム酸、クロム酸と重クロム酸のオリゴマー)	Acids generated from chromium trioxide and their oligomers Group containing: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	0.1% by weight (1,000 ppm) of the product	*8

47	Information/ (REACH SVHC)	1, 2, 3-トリクロロプロパン	1,2,3-Trichloropropane	0.1% by weight (1,000 ppm) of the product	*8 *9
48	Information/ (REACH SVHC)	1, 2-ベンゼンジカルボン酸、炭素数7の側鎖炭化水素を主成分とする炭素数6~8のフタル酸エステル類(DIHP)	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	0.1% by weight (1,000 ppm) of the product	*8
49	Information/ (REACH SVHC)	1, 2-ベンゼンジカルボン酸、炭素数7~11の分岐および直鎖アルキルエステル類(DHNUF)	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	0.1% by weight (1,000 ppm) of the product	*8
50	Information/ (REACH SVHC)	N-メチル-2-ピロリドン	1-Methyl-2-pyrrolidone	0.1% by weight (1,000 ppm) of the product	*8 *9
51	Information/ (REACH SVHC)	酢酸2-エトキシエチル	2-Ethoxyethyl acetate	0.1% by weight (1,000 ppm) of the product	*8 *9
52	Information/ (REACH SVHC)	ヒドラジン	Hydrazine	0.1% by weight (1,000 ppm) of the product	*8 *9
53	Information/ (REACH SVHC)	クロム酸ストロンチウム	Strontium chromate	0.1% by weight (1,000 ppm) of the product	*8
54	Information/ (REACH SVHC)	ジルコニアアルミノシリケート耐火セラミック繊維 (Zr-RCF) EC No. 1272/2008の附属書VI、パート3、表3.1において650-017-00-8として包含される繊維で、以下の3条件を満たす。 a) アルミナおよびシリカおよびジルコニアは、可変濃度範囲内に存在する主要成分(繊維)である。 b) 繊維は、その長さ加重幾何平均径からその標準誤差の2倍値を引いた値が6μm以下であること。 c) アルカリ酸化物およびアルカリ土類酸化物(Na2O+K2O+CaO+MgO+BaO)は、18重量%以下	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	0.1% by weight (1,000 ppm) of the product	*8 *9
55	Information/ (REACH SVHC)	ヒ酸カルシウム	Calcium arsenate	0.1% by weight (1,000 ppm) of the product	*8 *9
56	Information/ (REACH SVHC)	ビス(2-メトキシエチル)エーテル	Bis(2-methoxyethyl) ether	0.1% by weight (1,000 ppm) of the product	*8 *9
57	Information/ (REACH SVHC)	アルミノシリケート耐火セラミック繊維 (RCF) EC No. 1272/2008の附属書VI、パート3、表3.1において650-017-00-8として包含される繊維で、以下の3条件を満たす。 a) アルミナおよびシリカは、可変濃度範囲内に存在する主要成分(繊維)である。 b) 繊維は、その長さ加重幾何平均径からその標準誤差の2倍値を引いた値が6μm以下であること。 c) アルカリ酸化物およびアルカリ土類酸化物(Na2O+K2O+CaO+MgO+BaO)は、18重量%以下	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm) c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	0.1% by weight (1,000 ppm) of the product	*8 *9
58	Information/ (REACH SVHC)	ヒドロキシオクタオキソニ亜鉛酸ニクロム酸カリウム	Potassium hydroxyoctaoxodizincatedichromate	0.1% by weight (1,000 ppm) of the product	*8
59	Information/ (REACH SVHC)	ビスピクリン酸鉛(II)	Lead dipicrate	0.1% by weight (1,000 ppm) of the product	*8
60	Information/ (REACH SVHC)	N,N-ジメチルアセトアミド	N,N-dimethylacetamide	0.1% by weight (1,000 ppm) of the product	*8 *9
61	Information/ (REACH SVHC)	ヒ酸	Arsenic acid	0.1% by weight (1,000 ppm) of the product	*8 *9
62	Information/ (REACH SVHC)	2-メトキシアニリン; o-アニジジン	2-Methoxyaniline; o-Anisidine	0.1% by weight (1,000 ppm) of the product	*8 *9

63	Information/I (REACH SVHC)	ヒ酸鉛(II)	Trilead diarsenate	0.1% by weight (1,000 ppm) of the product	*8
64	Information/I (REACH SVHC)	1,2-ジクロロエタン	1,2-dichloroethane	0.1% by weight (1,000 ppm) of the product	*8 *9
65	Information/I (REACH SVHC)	クロム酸八水酸化五亜鉛	Pentazinc chromate octahydroxide	0.1% by weight (1,000 ppm) of the product	*8
66	Information/I (REACH SVHC)	ホルムアルデヒドとアニリンの重縮合物	Formaldehyde, oligomeric reaction products with aniline	0.1% by weight (1,000 ppm) of the product	*8 *9
67	Information/I (REACH SVHC)	ビス(2-メトキシエチル)フタレート	Bis(2-methoxyethyl) phthalate	0.1% by weight (1,000 ppm) of the product	*8 *9
68	Information/I (REACH SVHC)	4-(1,1,3,3-テトラメチルブチル)フェノール	4-(1,1,3,3-tetramethylbutyl)phenol	0.1% by weight (1,000 ppm) of the product	*8 *9
69	Information/I (REACH SVHC)	アジ化鉛(II)	Lead diazide, Lead azide	0.1% by weight (1,000 ppm) of the product	*8
70	Information/I (REACH SVHC)	フェノールフタレイン	Phenolphthalein	0.1% by weight (1,000 ppm) of the product	*8 *9
71	Information/I (REACH SVHC)	クロム酸クロム(III)	Dichromium tris(chromate)	0.1% by weight (1,000 ppm) of the product	*8
72	Information/I (REACH SVHC)	鉛(II)2,4,6-トリニトロ-1,3-ベンゼンジオラート(ステフニン酸鉛)	Lead styphnate	0.1% by weight (1,000 ppm) of the product	*8
73	Information/I (REACH SVHC)	2,2'-ジクロロ-4,4'-メチレンジアニリン	2,2'-dichloro-4,4'-methylenedianiline	0.1% by weight (1,000 ppm) of the product	*8 *9

Note:

This table shows JIG substance groups/substance and our original specified chemical substance.

When the concentration of each substance exceeds the threshold level, substance name and concentration need to be reported.

"Regulated/R" is a classification for substances prohibited use more than the threshold level because some restricts exist such as prohibiting their use by the law or the industry standard in each country.

"Information/I" is a classification for substances needed to be reported when containing

Please replace substances of "Information/I" with substances not listed in the above table or reduce their use as much as possible because restriction of use are to be required in some markets.

Please report substance information as much as possible when containing of listed substances in the parts/products are known even if the concentration is below the threshold level

*1 The European Community's ban applies to azocolorants and azodyes that by reductive cleavage of azo groups may release one of the aromatic amines listed in Related document 2. The threshold level given applies to these amines, not to the azocolorants and azodyes

*2 The battery reporting threshold level is based on the strictest known legal requirement. However, for simplification, the same reporting threshold level is set for all kind of batteries, even if the underlying legal requirement is only applicable for only one specific battery type

*3 Commission Decision defines a concentration limit of 0.1% by weight of tin in the article or part thereof.

Likewise Commission Decision 2009/251/EC defines a concentration limit of 0.00001% by weight of DMF in the product or part of the product.

Because no legal definition of part is provided in these legislations, the most potentially restrictive concentration limit is not adequately specified. Therefore, the concentration limit is applied at the level of a material vs.

a part to ensure disclosure of the regulated substances for the most basic unit of a part.

*4 Regulatory thresholds in these applications are based on emission or exposure limits rather than on the concentration in the product.

The regulatory limits are:

Formaldehyde in composite wood products - 0.08 ppm until 2010 (measured as gaseous emission from product);

For Nickel in applications of prolonged skin contact - 0.5 micrograms/sq cm/week per DIN EN 1811;

Radioactive substances - a dose rate exceeding 1 μSv h⁻¹ at a distance of 0,1 m. Because emission and exposure levels cannot be derived from actual concentrations, a threshold level of "intentionally added" is indicated for reporting. Suppliers may choose to report a default concentration of 0.1% by weight in the product for these substances, in lieu of determining the exact concentrations in their products, to indicate that the substance is known to be present in their product,

as the actual concentration in the product is not informative for regulatory compliance assessment

*5 Nickel can not used in certain regulated applications where it is likely to result in prolonged skin exposure (e.g., an outer enclosure for a portable electronic product designed to be carried)

*6 The RoHS Directive specifies some exemptions by use, 100ppm or less in total in case of packaging material.

Please replace substances prohibited use by the RoHS Directive with substances not listed in the above table or reduce their use as much as possible even if they are in exemption of the RoHS Directive such as mercury used in backlight

*7 A printed wiring board laminate refers to the layered board materials excluding surface finishes and components

*8 Substances listed as REACH SVHC are published by European Chemical Agency (ECHA) as SVHC

Some or all of these substances will be listed in Annex XIV for authorisation.

The table will be updated when ECHA publishes the additional substances.

All thresholds are applied to a substance in case thresholds are overlapped in a substance.

To Substance that corresponds to REACH SVHC There is an obligation of Communicate information of substances.

The threshold level for report is based on the value in which the mass of substance contained in the product or parts our being supplied is divided by total mass of the product or parts. It is set to 1000ppm.

*9 REACH SVHC that doesn't correspond to other Substance group in Specific Chemicals List.

*10 Only Products for children

Related document 2: JVC KENWOOD Specific Chemicals Details

These lists do not necessarily cover all controlled substances. They simply illustrate chemicals with known CAS numbers.

Cadmium/Cadmium Compounds	CAS No.
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	-

Chromium VI Compounds	CAS No.
Chromium (VI) oxide	1333-82-0
Barium chromate	10294-40-3
Calcium chromate	13765-19-0
Chromium trioxide	1333-82-0
Lead (II) chromate	7758-97-6
Lead chromate molybdate sulphate red	12656-85-8
Lead sulfochromate yellow	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
Ammonium dichromate	7789-09-5
Chromium (VI) trioxide, Chromium trioxide	18540-29-9
Chromic acid	7738-94-5
Dichromic acid	13530-68-2
Potassium hydroxyoctaoxidizincatedichromate	11103-86-9
Pentazinc chromate octahydroxide	49663-84-5
Dichromium tris(chromate)	24613-89-6
Other chromium VI compounds	-

Lead/Lead Compounds	CAS No.
Lead	7439-92-1
Lead (II) sulfate	7446-14-2
Lead (II) carbonate	598-63-0
Lead (II) chromate	7758-97-6
Lead chromate molybdate sulphate red	12656-85-8
Lead hydrocarbonate	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
Lead sulfochromate yellow	1344-37-2
Lead (II) titanate	12060-00-3
Lead sulfate, sulphuric acid, lead salt	15739-80-7
Lead sulphate, tribasic	12202-17-4
Lead stearate	1072-35-1
Lead dipicrate	6477-64-1
Trilead diarsenate	3687-31-8
Lead diazide, Lead azide	13424-46-9
Lead styphnate	15245-44-0
Other lead compounds	-

Mercury /Mercury Compounds	CAS No
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	-

Asbestos	CAS No.
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

Azocolorants and azodyes which form certain aromatic amines

Note: The European Community's ban applies to azocolorants and azodyes that by reductive cleavage of azo groups may release one of the above 22 aromatic amines.

	CAS No.
Biphenyl-4-ylamine	92-67-1
Benzidine	92-87-5
4-chloro-o-toluidine	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

Ozone Depleting Substances

Chlorofluorocarbons (CFC), Halons, Hydrobromofluorocarbons (HBFC), Hydrochlorofluorocarbons (HCFC) and others

	CAS No.
Trichlorofluoromethane (CFC-11)	75-69-4
Dichlorodifluoromethane (CFC-12)	75-71-8
Chlorotrifluoromethane (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)	354-58-5
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
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
	420-47-3
	762-49-2

Ozone Depleting Substances	CAS No.
Hexabromofluoropropane (HBFC-221 B6)	-
Pentabromodifluoropropane (HBFC-222 B5)	-
Tetrabromotrifluoropropane (HBFC-223 B4)	-
Tribromotetrafluoropropane (HBFC-224 B3)	-
Dibromopentafluoropropane (HBFC-225 B2)	431-78-7
Bromohexafluoropropane (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)	-
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)	4077-87-7
1,1-Dichloro-2,2,2-trifluoroethane (HCFC-123)	306-83-2
1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)	354-23-4
	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
	(134237-34-6)
1,1,2-Trichloro-2-fluoroethane (HCFC-131)	359-28-4
1,1,2-Trichloro-1-fluoroethane (HCFC131a)	811-95-0
1,1,1-Trichloro-2-fluoroethane (HCFC-131b)	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 (HFCF-132c)	1842-05-3
Chlorotrifluoroethane (HCFC-133)	1330-45-6
	431-07-2
1-Chloro-1,2,2-trifluoroethane (HCFC-133)	1330-45-6
2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	75-88-7
1-Chloro-1,1,2-trifluoroethane (HCFC-133b)	421-04-5
Dichlorofluoroethane(HCFC-141)	1717-00-6
	(25167-88-8)
1,2-Dichloro-1-fluoroethane (HCFC-141)	430-57-9
1,1-Dichloro-2-fluoroethane (HCFC-141a)	430-53-5
1,1-Dichloro-1-fluoroethane (HCFC-141b)	1717-00-6
Chlorodifluoroethane (HCFC-142)	25497-29-4
2-Chloro-1,1-Difluoroethane (HCFC-142)	338-65-8
1-Chloro-1,1-difluoroethane (HCFC-142b)	75-68-3
1-Chloro-1,2-difluoroethane (HCFC-142a)	338-64-7
Chlorofluoroethane (HCFC-151)	110587-14-9
1-Chloro-2-fluoroethane (HCFC-151)	762-50-5
1-Chloro-1-fluoroethane (HCFC-151a)	1615-75-4
Hexachlorofluoropropane (HCFC-221)	134237-35-7
	29470-94-8
1,1,1,2,2,3-Hexachloro-3-fluoropropane (HCFC-221ab)	422-26-4
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

Ozone Depleting Substances	CAS No.
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-fluoro-propane (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
Chlorofluoropropane (HCFC-271)	134190-54-8
2-Chloro-2-fluoropropane (HCFC-271ba)	420-44-0
1-Chloro-1-fluoropropane (HCFC-271fb)	430-55-7

*Note: These substances may contain further isomers that are not listed here. Isomers with CAS numbers have been included when available.

Fluorinated Greenhouse Gases	CAS No.
Perfluorocarbons (PFC), Sulfur hexafluoride (SF6) & Hydrofluorocarbons (HFC)	
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-Hexafluoro-propane (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-365mfc)	406-58-6

Note: The reporting requirement refers to the sum of just those substances listed above

PFOS Compounds	CAS No.
Perfluorooctane Sulfonates (PFOS)	-
C8F17SO2X, where X = OR, NR or other derivative	-

Perchlorate Compounds	CAS No.
Lithium perchlorate	7791-03-9
Other perchlorate compounds	-

Polybrominated Biphenyls (PBBs)	CAS No.
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
Firemaster FF-1	67774-32-7
Heptabromobiphenyl	35194-78-6
Octabromobiphenyl	61288-13-9
Nonabromobiphenyl	27753-52-2
Decabromobiphenyl	13654-09-6

Polybrominated Diphenyl Ethers (PBDEs)	CAS No.
Bromodiphenyl ether	101-55-3
Dibromodiphenyl ether	2050-47-7
Tribromodiphenyl ether	49690-94-0
Tetrabromodiphenyl ether	40088-47-9
Pentabromodiphenyl ether (note: Commercially available PeBDPO is a complex reaction mixture containing a variety of brominated diphenyloxides.)	32534-81-9 (CAS number used for commercial grades of PeBDPO)
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

Dibutyltin Compounds (DBT)	CAS No.
Dibutyltin oxide	818-08-6
Dibutyltin diacetate	1067-33-0
Dibutyltin dilaurate	77-58-7
Dibutyltin maleate	78-04-6
Other dibutyltin compounds	-

Diocetyl Compounds (DOT)	CAS No.
Diocetyl Tin Oxide	870-08-6
Diocetyl dilaurate	3648-18-8
Other Diocetyltin compounds	-

Selected Phthalates	CAS No.
Butylbenzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7
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
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4

Note: The reporting requirement refers to the sum of just those substances listed above

Polychlorinated Biphenyls (PCBs) and specific substitutes	CAS No.
Polychlorinated Biphenyls (all isomers and congeners)	1336-36-3
Monomethyl-tetrachloro-diphenyl methane(Ugilec 141)	76253-60-6
Monomethyl-dichloro-diphenyl methane(Ugilec 121, Ugilec 21)	81161-70-8
Monomethyl-dibromo-diphenyl methane (DBBT)	99688-47-8

Polychlorinated Terphenyls (PCTs)	CAS No.
Polychlorinated Terphenyls (all isomers and congeners)	61788-33-8

Polychlorinated Naphthalenes	CAS No.
Polychlorinated Naphthalenes	70776-03-3
Other polychlorinated Naphthalenes	-

Radioactive Substances (Radioactive Isotope)	CAS No.
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	-

Tri-substituted Organostannic Compounds	CAS No.
Triphenyltin-N, N-dimethyldithiocarbamate	1803-12-9
Triphenyltinfluoride	379-52-2
Triphenyltinacetate	900-95-8
Triphenyltinchloride	639-58-7
Triphenyltinhydroxide	76-87-9
Triphenyltin fattyacid((9-11)salt)	18380-71-7 18380-72-8 47672-31-1 94850-90-5
Triphenyltinchloroacetate	7094-94-2
Tributyltinmethacrylate	2155-70-6
Bis(tributyltin)fumalate	6454-35-9
Tributyltinfluoride	1983-10-4
Bis(tributyltin)2,3-dibromosuccinate	31732-71-5
Tributyltinacetate	56-36-0
Tributyltinlaurate	3090-36-6
Bis(tributyltin)phthalate	4782-29-0
Copolymer of alkyl(c=8) acrylate, methyl methacrylate and tributyltin methacrylate	67772-01-4
Tributyltinsulfamate	6517-25-5
Bis(tributyltin)maleate	14275-57-1
Tributyltinchloride	1461-22-9 7342-38-3
Tributyltin cyclopentane carbonate = mixture	85409-17-2
Tributyltin-1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthrenecarboxylatemix	26239-64-5
Other tri-substituted organostannic compounds	-

Brominated Flame Retardants (other than PBBs, PBDEs or HBCDD)	CAS No
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 ether and biphenyls]	-
Brominated flame retardant which comes under notation of ISO 1043-4 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 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 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-ethoxy)-ethyl-TBF	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
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

Brominated Flame Retardants (other than PBBs, PBDEs or HBCDD)	CAS No
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
Tetrabromo-cyclo-octane	31454-48-5
1,2-Dibromo-4-(1,2 dibromo-methyl)-cyclo-hexane	3322-93-8
Tetrabromophthalic acid 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	-

Diethyl Fumarate(Fumaric Acid Dimethyl Ester)	CAS No.
Diethyl Fumarate	624-49-7

Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	CAS No.
Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	3846-71-7

Formaldehyde	CAS No.
Formaldehyde	50-00-0

Nickel	CAS No.
Nickel	7440-02-0

The use of nickel is required to be reported only if it is likely that skin has direct contact with nickel for a long time, such as an enclosure designed for a portable electronic device.

Short Chain Chlorinated Paraffins (SCCPs)	CAS No.
Alkanes, C10-13, chloro	85535-84-8
Alkanes, C10-12, chloro	108171-26-2
Alkanes, C12-13, chloro	71011-12-6
Alkanes, chloro	61788-76-9
Other Short Chain Chlorinated Paraffins	-

Tributyltin oxide (TBTO)	CAS No.
bis-(Tributyltin) oxide	56-35-9

Beryllium oxide (BeO)	CAS No.
Beryllium oxide	1304-56-9

(PVC) Polyvinyl Chloride	CAS No.
Polyvinyl chloride (PVC)	9002-86-2
Other Polyvinyl chlorides	-

REACH SVHC(Candidate List of Substances of Very High Concern for authorisation)	CAS No.
Sodium dichromate, dihydrate	7789-12-0
Sodium dichromate anhydrate	10588-01-9
Bis(tributyltin)oxide (TBTO)	56-35-9
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
4,4'- Diaminodiphenylmethane (MDA)	101-77-9
Diarsenic pentaoxide	1303-28-2
Diarsenic trioxide	1327-53-3
Triethyl arsenate	15606-95-8
Lead hydrogen arsenate	7784-40-9
Benzyl butyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Bis (2-ethylhexyl)phthalate(DEHP)	117-81-7
Anthracene	120-12-7
Cobalt dichloride	7646-79-9
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	3194-55-6
Hexabromocyclododecane (HBCDD)	25637-99-4
alpha-hexabromocyclododecane	134237-50-6
beta-hexabromocyclododecane	134237-51-7
gamma-hexabromocyclododecane	134237-52-8
2,4-Dinitrotoluene	121-14-2
Anthracene oil	90640-80-5
Anthracene oil, anthracene paste, distn. Lights	91995-17-4
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
Anthracene oil, anthracene-low	90640-82-7
Anthracene oil, anthracene paste	90640-81-6
Diisobutyl phthalate(DIBP)	84-69-5
Aluminosilicate, Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions: a) Al ₂ O ₃ and SiO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 43.5 – 47 % w/w, and SiO ₂ : 49.5 – 53.5 % w/w, or Al ₂ O ₃ : 45.5 – 50.5 % w/w, and SiO ₂ : 48.5 – 54 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).	-
Zirconia Aluminosilicate, Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions: a) Al ₂ O ₃ , SiO ₂ and ZrO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 35 – 36 % w/w, and SiO ₂ : 47.5 – 50 % w/w, and ZrO ₂ : 15 - 17 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).	-
Lead chromate	7758-97-6
Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8
Pitch, coal tar, high temp.	65996-93-2
Acrylamide	79-06-1
Trichloroethylene	79-01-6
Boric acid	11113-50-1 10043-35-3
Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3
Tetraboron disodium heptaoxide, hydrate	12267-73-1
Sodium chromate	7775-11-3
Potassium chromate	7789-00-6
Ammonium dichromate	7789-09-5
Potassium dichromate	7778-50-9
Cobalt(II) sulphate	10124-43-3
Cobalt(II) dinitrate	10141-05-6
Cobalt (II) carbonate	513-79-1
Cobalt(II) diacetate	71-48-7
2-Methoxyethanol	109-86-4
2-Ethoxyethanol	110-80-5
Chromium trioxide	1333-82-0
Chromic acid	7738-94-5
Dichromic acid	13530-68-2
Oligomers of chromic acid and dichromic acid	-
1,2,3-Trichloropropane	96-18-4
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4
1-Methyl-2-pyrrolidone	872-50-4
2-Ethoxyethyl acetate	111-15-9
Hydrazine	302-01-2
Hydrazine, monohydrate	7803-57-8
Strontium chromate	7789-06-2

REACH SVHC(Candidate List of Substances of Very High Concern for authorisation)	CAS No.
Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	-
Calcium arsenate	7778-44-1
Bis(2-methoxyethyl) ether	111-96-6
Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	-
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9
Lead dipicrate	6477-64-1
N,N-dimethylacetamide	127-19-5
Arsenic acid	7778-39-4
2-Methoxyaniline; o-Anisidine	90-04-0
Trilead diarsenate	3687-31-8
1,2-dichloroethane	107-06-2
Pentazinc chromate octahydroxide	49663-84-5
Formaldehyde, oligomeric reaction products with aniline	25214-70-4
Bis(2-methoxyethyl) phthalate	117-82-8
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
Lead diazide, Lead azide	13424-46-9
Phenolphthalein	77-09-8
Dichromium tris(chromate)	24613-89-6
Lead styphnate	15245-44-0
2,2'-dichloro-4,4'-methylenedianiline	101-14-4