

Olympus Group
Control Rules for Chemical Substances Used
in Product Annex C:
REACH SVHC Candidate List

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OLYMPUS[®]

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1. Objective

This Annex designates the published Candidate List of Substances of Very High Concern in REACH as “controlled substances” in Annex A titled “the Control Rules for Environment-related Substances Used in Product” that are applicable to the Olympus Group. Table 1 in Annex A lists the controlled substances.

2. Controlled substances No. II-1 (Candidate List of Substances of Very High Concern in REACH (SVHC))

These are substances in the Candidate List of Substances of Very High Concern (SVHC) published by the European Chemicals Agency (ECHA). SVHCs will be added to the Candidate List and published on the ECHA website on a regular basis.

(http://echa.europa.eu/chem_data/authorisation_process/candidate_list_en.asp)

Table 1: Controlled substances No. II-1 (Candidate List of Substances of Very High Concern in REACH (SVHC)): Published on 17 December 2015

No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	ニトロベンゼン	Nitrobenzene	98-95-3	Toxic for reproduction
2	2- (3,5-ジ-tert-ブチル-2-ヒドロキシフェニル) -5-クロロベンゾトリアゾール	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	vPvB
3	2- (2H-ベンゾトリアゾール-2-イル) -6-sec-ブチル-4-tert-ブチルフェノール	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	vPvB
4	1,3-プロパンスルトン	1,3-propasesultone	1120-71-4	Carcinogenic
5	ペルフルオロノナン酸	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	Toxic for reproduction PBT

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No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	1,2-ベンゼンジカルボン酸、ジ-C6~10-アルキルエステル； 1,2-ベンゼンジカルボン酸、デシル・ヘキシル・オクチルジエステル 0.3%以上のフタル酸ジヘキシルを含有したもの	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	Toxic for reproduction
2	5-sec-ブチル-2- (2,4-ジメチルシクロヘキサ-3-エン-1-イル) -5-メチル-1,3-ジオキサン[1]、 5-sec-ブチル-2- (4,6-ジメチルシクロヘキサ-3-エン-1-イル) -5-メチル-1,3-ジオキサン[2] ([1]と[2]の個々の異性体、またはその組合せも含む)	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	- JAMP-SN0085	vPvB

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No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	フッ化カドミウム	Cadmium fluoride	7790-79-6	Carcinogenic, Mutagenic, Toxic for reproduction, Article 57 f
2	硫酸カドミウム	Cadmium sulphate	10124-36-4; 31119-53-6	Carcinogenic, mutagenic, Toxic for reproduction, Article 57 f
3	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	2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	PBT、vPvB
4	2-(2H-ベンゾトリアゾール-2-イル)-4,6-ジ-tert-ペンチルフェノール	2-(2H-benzotriazol-2-yl)-4,6-diterpentyphenol(UV-328)	25973-55-1	PBT、vPvB
5	ジオクチルスズビス(2-エチルヘキシルチオグリコラート);DOTE	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	Toxic for reproduction
6	10-エチル-4,4-ジオクチル-7-オキソ-8-オキサ-3,5-ジチア-4-スタンナテトラデカン酸2-エチルヘキシルとオクチルトリス(2-エチルヘキシルオキシカルボニルメチルチオ)スタンの反応性生物;DOTEとMOTEからなる反応物	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	- JAMP-SN0084	Toxic for reproduction

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No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	塩化カドミウム	Cadmium chloride	10108-64-2	Carcinogenic, mutagenic, Toxic for reproduction, Article 57 f
2	ビス[アルキル(C=6)]=フタレート、フタル酸ジイソヘキシル(DIHP)	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	Toxic for reproduction
3	ペルオキシホウ酸ナトリウム	Sodium peroxometaborate	7632-04-4	Toxic for reproduction
4	過ホウ酸ナトリウム及びその塩	Sodium perborate; perboric acid, sodium salt	-	Toxic for reproduction

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No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	硫化カドミウム	Cadmium sulphide	1306-23-6	Carcinogenic

				Article 57 f
2	3,3'-[(1,1'-ビフェニル)-4,4'-ジイルビス(アゾ)]ビス(4-アミノナフタレン-1-スルホネート)二ナトリウム (別名CIダイレクトレッド28)	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	Carcinogenic
3	ジナトリウム=4-アミノ-3-[4'-(2,4-ジアミノフェニルアゾ)-1,1'-ビフェニル-4-イルアゾ]-5-ヒドロキシ-6-フェニルアゾ-2,7-ナフタレンジスルホネート (別名CIダイレクトブラック38)	Disodium 4-amino-3-[[4'-(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	Carcinogenic
4	ジヘキサン-1-イル=フタレート	Dihexyl phthalate	84-75-3	Toxic for reproduction
5	2-イミダゾリジンチオン	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	Toxic for reproduction
6	酢酸鉛(II)	Lead di(acetate)	301-04-2	Toxic for reproduction
7	リン酸トリス (ジメチルフェニル)	Trixylyl phosphate	25155-23-1	Toxic for reproduction

Table 1: Controlled substances No. II-1 (Candidate List of Substances of Very High Concern in REACH (SVHC)): Published on 20 June 2013

No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	カドミウム	Cadmium	7440-43-9	Carcinogenic Article 57 f
2	酸化カドミウム(II)	Cadmium oxide	1306-19-0	Carcinogenic Article 57 f
3	ペンタデカフルオロオクタノ酸アンモニウム (APFO)	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	Toxic for reproduction PBT
4	パーフルオロオクタノ酸 (PFOA)	Pentadecafluorooctanoic acid (PFOA)	335-67-1	Toxic for reproduction PBT
5	フタル酸ジペンチル(DPP)	Dipentyl phthalate (DPP)	131-18-0	Toxic for reproduction
6	4-ノニルフェノール、分岐および直鎖のエトキシレート	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and welldefined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	- JAMP-SN0083	Article 57 f

Table 1: Controlled substances No. II-1 (Candidate List of Substances of Very High Concern in REACH (SVHC)): Published on 19 December 2012

No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	デカブロモジフェニルエーテル (デカ BDE)	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	PBT, vPvB
2	ペルフルオロトリデカン酸	Pentacosaf fluorotridecanoic acid	72629-94-8	vPvB
3	ペルフルオロドデカン酸	Tricosaf fluorododecanoic acid	307-55-1	vPvB
4	ペルフルオロウンデカン酸	Henicosaf fluoroundecanoic acid	2058-94-8	vPvB
5	ペルフルオロテトラデカン酸	Heptacosaf fluorotetradecanoic acid	376-06-7	vPvB
6	アゾジカルボキサミド; ジアゼン-1,2-ビスカルボアミド	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	Article 57 f
7	ヘキサヒドロフタル酸無水物; 1,2-シクロヘキサンジカルボン酸無水物[1], シス-1,2-シクロヘキサンジカルボン酸無水物; ヘキサヒドロフタル酸無水物[2], ヘキサヒドロフタル酸無水物; トランス-1,2-シクロヘキサンジカルボン酸無水物[3] [個々のシス-[2] および trans-[3] 異性体物質とのすべての可能な組み合わせ cis-及び trans-異性体 [1]は、含まれる]	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7, 13149-00-3, 14166-21-3	Article 57 f
8	メチルヘキサヒドロ無水フタル酸[1], 4-メチルヘキサヒドロ無水フタル酸; 4-メチルシクロヘキサン-1,2-ジカルボン酸無水物 [2] 1-メチルヘキサヒドロ無水フタル酸[3], 3-メチルヘキサヒドロ無水フタル酸[4] [個々の異性体[2]、[3]と[4] (その cis-及び trans-ステレオ異性体の形態を含む)およびその異性体のすべての可能な組み合わせ [1]は、含まれる]	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	Article 57 f
9	4-ノニルフェノール、分岐およ	4-Nonylphenol, branched	-	Article 57 f

	び直鎖 ーフェノールの 4 の位置で炭素数 9 の直鎖および/または分岐したアルキル鎖が共有結合している物質、個々の異性体またはその混合物のいずれも含む UVCB 物質および well-defined 物質(組成等が分かっている物質)	and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	JAMP-SN0082	
10	エトキシ化された 4-(1,1,3,3-テトラブチル)フェノール [明確に定義された物質、UVCB 物質は、ポリマー及び同族体を含む]	4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	- JAMP-SN0081	Article 57 f
11	メトキシ酢酸	Methoxyacetic acid	625-45-6	Toxic for reproduction
12	N,N-ジメチルホルムアミド	N,N-dimethylformamide	68-12-2	Toxic for reproduction
13	ジブチルスズジクロライド (DBTC)	Dibutyltin dichloride (DBTC)	683-18-1	Toxic for reproduction
14	一酸化鉛	Lead monoxide (Lead oxide)	1317-36-8	Toxic for reproduction
15	四酸化三鉛	Orange lead (Lead tetroxide)	1314-41-6	Toxic for reproduction
16	四フッ化ホウ酸鉛(II)	Lead bis(tetrafluoroborate)	13814-96-5	Toxic for reproduction
17	水酸化炭酸鉛(II)	Trilead bis(carbonate)dihydroxide	1319-46-6	Toxic for reproduction
18	チタン酸鉛	Lead titanium trioxide	12060-00-3	Toxic for reproduction
19	ジルコン酸チタン酸鉛	Lead titanium zirconium oxide (Pb(Ti,Zr)O3)	12626-81-2	Toxic for reproduction
20	ケイ酸と鉛の塩	Silicic acid, lead salt	11120-22-2	Toxic for reproduction
21	ケイ酸とバリウムの塩(1 : 1)(鉛ドーブ)	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in	68784-75-8	Toxic for reproduction

		Regulation (EC) No 1272/2008]		
22	1-ブロモプロパン; 臭化 n-プロピル	1-bromopropane (n-propyl bromide)	106-94-5	Toxic for reproduction
23	2-メチルオキシラン、酸化プロピレン	Methyloxirane (Propylene oxide)	75-56-9	Carcinogenic, mutagenic
24	フタル酸 n-ペンチル-イソペンチル; 1,2-ベンゼンジカルボン酸、ジペンチルエステル、分岐および直鎖	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	Toxic for reproduction
25	フタル酸ジイソペンチル、フタル酸ジイソアミル(DIPP)	Diisopentylphthalate (DIPP)	605-50-5	Toxic for reproduction
26	フタル酸 n-ペンチル-イソペンチル、n-ペンチル-イソペンチルフタレート	N-pentyl-isopentylphthalate	776297-69-9	Toxic for reproduction
27	エチレングリコールジエチルエーテル; 1,2-ジエトキシエタン	1,2-diethoxyethane	629-14-1	Toxic for reproduction
28	塩基性酢酸鉛	Acetic acid, lead salt, basic	51404-69-4	Toxic for reproduction
29	塩基性硫酸鉛	Lead oxide sulfate (Pb2O(SO4))	12036-76-9	Toxic for reproduction
30	ジオキソ(フタラト)三鉛	[Phthalato(2-)]dioxotrilead;	69011-06-9	Toxic for reproduction
31	ジオキソビス(ステアリン酸)三鉛	Dioxobis(stearato)trilead	12578-12-0	Toxic for reproduction
32	脂肪酸鉛塩(炭素数 16~18)	Fatty acids, C16-18, lead salts	91031-62-8	Toxic for reproduction
33	シアナミド鉛(II)	Lead cyanamide	20837-86-9	Toxic for reproduction
34	硝酸鉛	Lead dinitrate	10099-74-8	Toxic for reproduction
35	塩基性硫酸鉛	Pentalead tetraoxide sulphate	12065-90-6	Toxic for reproduction
36	ピグメントエロー41; C.I.ピグメントイエロー41	Pyrochlore, antimony lead yellow	8012-00-8	Toxic for reproduction
37	塩基性亜硫酸鉛	Sulfurous acid, lead salt, dibasic	62229-08-7	Toxic for reproduction
38	テトラエチル鉛	Tetraethyllead;	78-00-2	Toxic for reproduction
39	三塩基性硫酸鉛	Tetralead trioxide sulphate	12202-17-4	Toxic for reproduction
40	二塩基性リン酸鉛	Trilead dioxide phosphonate	12141-20-7	Toxic for reproduction
41	フラン	Furan	110-00-9	Carcinogenic
42	硫酸ジエチル	Diethyl sulphate	64-67-5	Carcinogenic, mutagenic
43	硫酸ジメチル	Dimethyl sulphate	77-78-1	Carcinogenic
44	3-エチル-2-イソペンチル-2-メチル-1,3-オキサゾリジン	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	Toxic for reproduction
45	ジノセブ; 2-sec-ブチル-4,6-ジニトロフェノール	Dinoseb(6-sec-butyl-2,4-dinitrophenol)	88-85-7	Toxic for reproduction
46	4,4'-メチレンビス(o-トルイジン)	4,4'-methylenedi-o-toluidine	838-88-0	Carcinogenic
47	4,4'-オキシジアニリン及びその塩	4,4'-oxydianiline and its salts	101-80-4	Carcinogenic, mutagenic

48	4-アミノアゾベンゼン	4-aminoazobenzene	60-09-3	Carcinogenic
49	2,4-ジアミノトルエン	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	Carcinogenic
50	6-メトキシ-m-トルイジン	6-methoxy-m-toluidine (p-cresidine)	120-71-8	Carcinogenic
51	ビフェニル-4-イルアミン	Biphenyl-4-ylamine	92-67-1	Carcinogenic
52	o-アミノアゾトルエン	o-aminoazotoluene	97-56-3	Carcinogenic
53	o-トルイジン	o-toluidine	95-53-4	Carcinogenic
54	N-メチルアセトアミド	N-methylacetamide	79-16-3	Toxic for reproduction

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1	ジメチル(4- {ビス [4-(ジメチルアミノ)フェニル] メチリデン} シクロヘキサ-2,5-ジエン-1-イリデン)アンモニウムクロリド (C.I.ベーシックバイオレット 3)	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	Carcinogenic
2	rel-1,3,5-トリス [(R)-オキシラン-2-イルメチル] -1,3,5-トリアジナン-2,4,6-トリオン-	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	Mutagenic
3	トリエチレングリコールジメチルエーテル	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	Toxic for reproduction
4	ビス [4-(ジメチルアミノ)フェニル] [4-(メチルアミノ)フェニル] メタノール	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	Carcinogenic
5	メタンスルホン酸鉛 (II)	Lead(II) bis(methanesulfonate)	17570-76-2	Toxic for reproduction
6	1,2-ジメトキシエタン	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	Toxic for reproduction
7	三酸化二ホウ素	Diboron trioxide	1303-86-2	Toxic for reproduction
8	(4-アニリノ-1-ナフチル) {ビス [4-(ジメチルアミノ)フェニル]} メタノール	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	Carcinogenic
9	1,3,5-トリス(オキシラン-2-イルメチル)-1,3,5-トリアジナン-2,4,6-トリオン	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	Mutagenic
10	4,4'-ビス (ジメチルアミノ) ベ	4,4'-bis(dimethylamino)benzophe	90-94-8	Carcinogenic

	ンゾフェノン; ミヒラーズケトン	none (Michler's ketone)		
11	N,N,N',N'-テトラメチル-4,4'-メチレンジアニリン	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	Carcinogenic
12	ジメチル(4-[(4-アニリノ-1-ナフチル) [4-(ジメチルアミノ)フェニル] メチリデン} シクロヘキサ-2, 5-ジエン-1-イリデン)アンモニウム=クロリド	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	Carcinogenic
13	ホルムアミド	Formamide	75-12-7	Toxic for reproduction

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1	ジルコニアアルミノケイ酸塩耐火性セラミック繊維	Zirconia Aluminosilicate Refractory Ceramic Fibres		Carcinogenic
2	ヒ酸カルシウム	Calcium arsenate	7778-44-1	Carcinogenic
3	1-メトキシ-2- (2-メトキシエトキシ) エタン	Bis(2-methoxyethyl) ether	111-96-6	Toxic for reproduction
4	アルミノケイ酸塩耐火性セラミック繊維	Aluminosilicate Refractory Ceramic Fibres		Carcinogenic
5	ヒドロキシオクタオキソ二亜鉛酸二クロム酸カリウム	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	Carcinogenic
6	ピクリン酸鉛	Lead dipicrate	6477-64-1	Toxic for reproduction
7	N,N-ジメチルアセトアミド	N,N-dimethylacetamide	127-19-5	Toxic for reproduction
8	ヒ酸	Arsenic acid	7778-39-4	Carcinogenic
9	2-メトキシアニリン	2-Methoxyaniline;	90-04-0	Carcinogenic
10	ヒ酸鉛(II)	Trilead diarsenate	3687-31-8	Carcinogenic, toxic for reproduction
11	1,2-ジクロロエタン	1,2-dichloroethane	107-06-2	Carcinogenic
12	クロム酸八水酸化五亜鉛	Pentazinc chromate octahydroxide	49663-84-5	Carcinogenic
13	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	140-66-9	Equivalent level of concern having probable serious effects to the environment (article 57 f)
14	ホルムアルデヒドとアニリンの重合物	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	Carcinogenic
15	フタル酸ビス(2-メトキシエチル)	Bis(2-methoxyethyl) phthalate	117-82-8	Toxic for reproduction
16	アジ化鉛	Lead diazide, Lead azide	13424-46-9	Toxic for reproduction

17	トリニトロレゾルシン鉛	Lead styphnate	15245-44-0	Toxic for reproduction
18	2,2'-ジクロロ-4,4'-メチレンジアニリン	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	Carcinogenic
19	フェノールフタレイン	Phenolphthalein	77-09-8	Carcinogenic
20	トリス(クロム酸)ニクロム(III)	Dichromium tris(chromate)	24613-89-6	Carcinogenic

Table 1: Controlled substances No. II-1 (Candidate List of Substances of Very High Concern in REACH (SVHC)): Published on 20 June 2011

No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	塩化コバルト(II)	Cobalt dichloride	7646-79-9	Carcinogenic, toxic for reproduction
2	フタル酸ジヘプチル(DIHP)	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	Toxic for reproduction
3	1,2,3-トリクロロプロパン	1,2,3-Trichloropropane	96-18-4	Carcinogenic, toxic for reproduction
4	N-メチル-2-ピロリドン	1-Methyl-2-pyrrolidone	872-50-4	Toxic for reproduction
5	ヒドラジン	Hydrazine	302-01-2 / 7803-57-8	Carcinogenic
6	フタル酸ヘプチルノニルウンデシル(DHNUP)	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	Toxic for reproduction
7	クロム酸ストロンチウム(II)	Strontium chromate	7789-06-2	Carcinogenic
8	酢酸2-エトキシエチル	2-Ethoxyethyl acetate	111-15-9	Toxic for reproduction

Table 1: Controlled substances No. II-1 (Candidate List of Substances of Very High Concern in REACH (SVHC)): Published on 15 December 2010

No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	硫酸コバルト(II)	Cobalt(II) sulphate	10124-43-3	Carcinogenic, toxic for reproduction
2	硝酸コバルト(II)	Cobalt(II) dinitrate	10141-05-6	Carcinogenic, toxic for reproduction
3	炭酸コバルト(II)	Cobalt(II) carbonate	513-79-1	Carcinogenic, toxic for reproduction
4	酢酸コバルト(II)	Cobalt(II) diacetate	71-48-7	Carcinogenic, toxic for reproduction
5	2-メトキシエタノール	2-Methoxyethanol	109-86-4	Toxic for reproduction
6	2-エトキシエタノール	2-Ethoxyethanol	110-80-5	Toxic for reproduction
7	酸化クロム(VI)	Chromium trioxide	1333-82-0	Carcinogenic, mutagenic
8	クロム酸、クロム酸及び重クロム酸オリゴマー、重クロム酸	Chromic acid, Oligomers of chromic acid and dichromic acid,	7738-94-5 JAMP-SN0071	Carcinogenic

		Dichromic acid	13530-68-2	
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Table 1: Controlled substances No. II-1 (Candidate List of Substances of Very High Concern in REACH (SVHC)): Published on 18 June 2010

No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	三塩化エチレン	Trichloroethylene	79-01-6	Carcinogenic
2	ホウ酸	Boric acid	10043-35-3 11113-50-1	Toxic for reproduction
3	ホウ砂、 七酸化二ナトリウム四ホウ素、 七酸化二ナトリウム四ホウ素五水和物	Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3	Toxic for reproduction
4	七酸化二ナトリウム四ホウ素水和物	Tetraboron disodium heptaoxide, hydrate	12267-73-1	Toxic for reproduction
5	重クロム酸カリウム	Potassium dichromate	7778-50-9	Carcinogenic, mutagenic, toxic for reproduction
6	ニクロム酸アンモニウム	Ammonium dichromate	7789-09-5	Carcinogenic, mutagenic, toxic for reproduction
7	クロム酸カリウム	Potassium chromate	7789-00-6	Carcinogenic, mutagenic
8	クロム酸ナトリウム	Sodium chromate	7775-11-3	Carcinogenic, mutagenic, toxic for reproduction

Table 1: Controlled substances No. II-1 (Candidate List of Substances of Very High Concern in REACH (SVHC)): Published on 13 January and 30 March, 2010

No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	アクリルアミド	Acrylamide	79-06-1	Carcinogenic, mutagenic
2	2,4-ジニトロトルエン	2,4-Dinitrotoluene	121-14-2	Carcinogenic
3	アントラセンオイル	Anthracene oil	90640-80-5	Carcinogenic, PBT, vPvB
4	アントラセンオイル (anthracene-low)	Anthracene oil, anthracene-low	90640-82-7	Carcinogenic, mutagenic, PBT, vPvB
5	アントラセンオイル、アントラセンペースト	Anthracene oil, anthracene paste	90640-81-6	Carcinogenic, mutagenic, PBT, vPvB
6	アントラセンオイル、アントラセンペースト、アントラセン留分	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	Carcinogenic, mutagenic, PBT, vPvB
7	アントラセンオイル、アントラセンペースト、軽留分	Anthracene oil, anthracene paste, distn. lights	91995-17-4	Carcinogenic, mutagenic, PBT, vPvB
8	フタル酸ジイソブチル(DIBP)	Diisobutyl phthalate	84-69-5	Toxic for reproduction
9	クロム酸鉛(II)	Lead chromate	7758-97-6	Carcinogenic, toxic for reproduction
10	硫酸モリブデン酸クロム酸鉛 (C.Iピグメントレッド104)	Lead chromate molybdate sulphate red (C.I. Pigment Red	12656-85-8	Carcinogenic, toxic for reproduction

		104)		
11	クロム酸鉛 (C.I.ピグメントイエロー34)	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	Carcinogenic, toxic for reproduction
12	コールタールピッチ	Pitch, coal tar, high temp.	65996-93-2	Carcinogenic, PBT, vPvB
13	リン酸トリス(2-クロロエチル)	Tris(2-chloroethyl)phosphate	115-96-8	Toxic for reproduction

Table 1: Controlled substances No. II-1 (Candidate List of Substances of Very High Concern in REACH (SVHC)): Published on 28 October 2008

No.	Substance name (Japanese)	Substance name (published name)	CAS No. or JAMP-SN	Reason for inclusion
1	4,4'-ジアミノジフェニルメタン (MDA)	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	Carcinogenic
2	ムスクキシレン	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	vPvB
3	塩素化パラフィン(短鎖)	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	PBT、vPvB
4	アントラセン	Anthracene	120-12-7	PBT
5	フタル酸 n-ブチル=ベンジル (BBP)	Benzyl butyl phthalate (BBP)	85-68-7	Toxic for reproduction
6	フタル酸ビス(2-エチルヘキシル) (DEHP)	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	Toxic for reproduction
7	ビス(トリブチルスズ)=オキシド (TBTO)	Bis(tributyltin)oxide (TBTO)	56-35-9	PBT
8	五酸化二ヒ素	Diarsenic pentaoxide	1303-28-2	Carcinogenic
9	三酸化二ヒ素(三酸化ヒ素)	Diarsenic trioxide	1327-53-3	Carcinogenic
10	フタル酸ジ-n-ブチル(DBP)	Dibutyl phthalate (DBP)	84-74-2	Toxic for reproduction
11	ヘキサブロモシクロドデカン (HBCDD) 1,2,5,6,9,10-ヘキサブロモシクロドデカン/ アルファ-ヘキサブロモシクロドデカン ベータ-ヘキサブロモシクロドデカン ガンマ-ヘキサブロモシクロドデカン	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Betahexabromocyclododecane Gammahexabromocyclododecane	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	PBT
12	酸性ヒ酸鉛	Lead hydrogen arsenate	7784-40-9	Carcinogenic, toxic for reproduction
13	重クロム酸ナトリウム・2水和物 重クロム酸ナトリウム	Sodium dichromate	7789-12-0 10588-01-9	Carcinogenic, mutagenic, toxic for reproduction
14	ヒ酸トリエチル	Triethyl arsenate	15606-95-8	Carcinogenic

3. Major revisions to Annex C

Ver.	Date	Article of Annex C	Contents and reason for revisions
10	2016.04.04	Table 1	2 substances published by ECHA on 15 June 2015 were added. 5 substances published by ECHA on 17 December 2015 were added.
9	2015.06.05	Table 1	6 substances published by ECHA on 17 December 2014 were added. 4 substances published by ECHA on 16 June 2014 were added.
8	2014. 02.20	Table 1	7 substances published by ECHA on 16 December 2013 were added. 6 substances published by ECHA on 20 June 2013 were added.
7	2013.09.05	-	No change.(Version-up due to change of Annex A)
6	2013.05.17	Table 1	54 substances published by ECHA on 19 December 2012 were added.
5	2012.06.19		The Candidate List of Substances of Very High Concern in REACH was extracted from Annex A to the Control Rules for Environment-related Substances Used in Product, and separately presented.