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Client: **Alien Technology LLC**
845 Embedded Way
San Jose, CA 95138 USA

Item(s) Description: **Components**

**Identification/
Model No(s):** **Higgs-EC (ALC-380), Higgs 4 (ALC-370), and Higgs 3 (ALC-360) IC's**

Testing Laboratory: TUV Rheinland of North America
2709 SE Otis Corley Dr., Suite 11 Bentonville, AR 72712

Sample Receiving date: 14 August 2012, 18 March 2013, 23 January 2014, 04 August 2015

Testing Period: 15 August 2012 – 14 February 2018

Test specification:

Overall results according to tests performed

Test result:

Please refer to pages 2 - 3

Customer Requirement:

Risk Assessment of Articles: Screening of Substances of very high concern (SVHC) subject to authorisation (according to (EU) no. 143/2011 and (EU) no. 125/2012, Annex XIV of EC no. 1907/2006)

Substances of very high concern (SVHC) in candidate list, by European Chemical Agency (ECHA),

With reference to Corrigendum to Regulation (EC) no.1907/2006, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Other Information:

Number of substances on the Candidate List: 181 (last updated: 15 January 2018)

For and on behalf of
TÜV Rheinland of North America, Inc.




2/15/2018	Madison Johnson / Laboratory Technician	2/15/2018	Mark Smith / Lab Manager
<i>Date</i>	<i>Name/Position</i>	<i>Date</i>	<i>Name/Position</i>

Test result is drawn according to the kind and extent of tests performed.

This test report exclusively refers to the samples examined. Without permission of the test centre this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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Test Results

Test Methods: In-house method – GC-MS/ECD, LC, ICP, XRF, photometry and visual fibre identification

Product Name	SVHC % (W/W)
Higgs-EC (ALC-380), Higgs 4 (ALC-370), and Higgs 3 (ALC-360) IC's	ND

Abbreviations: ND = All SVHC content was found to be <0.1% of the articles present

Associated Article(s)	Conclusion	Detected Substances (if any)
See summary above	<p>Acc. To authorisation list EU no. 143/2011 (Annex XIV of EC no. 1907/2006), and candidate list by ECHA, the detected SVHC concentration is: <input checked="" type="checkbox"/> < 0.1% <input type="checkbox"/> > 0.1%</p> <p>Obligation of Importer: <input type="checkbox"/> Necessary <input checked="" type="checkbox"/> Not necessary (For article) To communicate information down the supply chain according to article. 33 of REACH. OR Notification to ECHA, if the quantities of SVHC in the produced/imported articles are above 1 ton in total per year per company. Provide sufficient information to ensure safe use of the article and, as a minimum, include the name of the substance, to their customers and on request to consumers within 45 days of the receipt of this request.</p> <p>(For preparation / preparation in special container) Provide a safety data sheet if the individual concentration is more than or equal to 0.1% (w/w) for non-gaseous preparations, and more than or equal to 0.2% by volume for gaseous preparations if at least one substance poses human health and/or environmental hazards, persistent, bioaccumulative and toxic or very persistent and very bioaccumulative.</p>	-- See Analyses results
	With reference to Corrigendum to Regulation (EC) no.1907/2006 and ECHA, this product is classified as: Article which does not contain substances released by the product under normal or reasonably foreseeable conditions of use	

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Analyses Results:

Material No.	Description	Detected Substances
M001	Representative Wafer	None

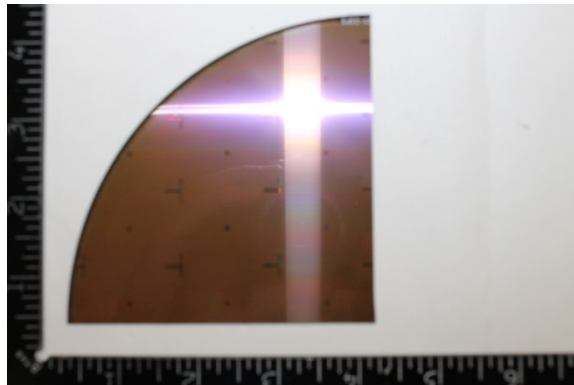
Remarks (if applicable):

The theoretical content in an article is calculated for the mentioned SVHC substance(s). It is suggested to check the respective recipe if the theoretical content of the respective substance >0.1% in the weight of whole article.

Notes:

The tested material(s) was screened only for selected SVHC substance(s). Selection of tests refers to the material type, application, and any additional product information or evaluation.

The SVHC substances which are not mentioned in the test result were either not subject to testing according to selection criteria or not detected.

Sample Photos:

Test Article

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Attachment: SVHC Candidate List (Last Updated: January 15, 2018)

No.	Substance Name	EC Number	CAS Number	Date of Inclusion	Decision Number
1	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	10/28/2008	ED/67/2008
2	Anthracene	204-371-1	120-12-7	10/28/2008	ED/67/2008
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	10/28/2008	ED/67/2008
4	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	10/28/2008	ED/67/2008
5	Dibutyl phthalate (DBP)	201-557-4	84-74-2	10/28/2008	ED/67/2008
6	Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	10/28/2008	ED/67/2008
7	Diarsenic pentaoxide	215-116-9	1303-28-2	10/28/2008	ED/67/2008
8	Triethyl arsenate	427-700-2	15606-95-8	10/28/2008	ED/67/2008
9	Diarsenic trioxide	215-481-4	1327-53-3	10/28/2008	ED/67/2008
10	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	10/28/2008	ED/67/2008
11	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	10/28/2008	ED/67/2008
12	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	10/28/2008	ED/67/2008
13	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	10/28/2008	ED/67/2008
14	Lead hydrogen arsenate	232-064-2	7784-40-9	10/28/2008	ED/67/2008
15	Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4	1/13/2010	ED/68/2009
16	Pitch, coal tar, high temp.	266-028-2	65996-93-2	1/13/2010	ED/68/2009
17	Anthracene oil, anthracene paste	292-603-2	90640-81-6	1/13/2010	ED/68/2009
18	Lead chromate	231-846-0	7758-97-6	1/13/2010	ED/68/2009
19	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	1/13/2010	ED/68/2009
20	Diisobutyl phthalate	201-553-2	84-69-5	1/13/2010	ED/68/2009
21	Anthracene oil, anthracene-low	292-604-8	90640-82-7	1/13/2010	ED/68/2009
22	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	1/13/2010	ED/68/2009
23	Anthracene oil	292-602-7	90640-80-5	1/13/2010	ED/68/2009
24	2,4-Dinitrotoluene	204-450-0	121-14-2	1/13/2010	ED/68/2009

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No.	Substance Name	EC Number	CAS Number	Date of Inclusion	Decision Number
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	1/13/2010	ED/68/2009
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	1/13/2010	ED/68/2009
27	Acrylamide	201-173-7	79-06-1	3/30/2010	ED/68/2009
28	Potassium chromate	232-140-5	7789-00-6	6/18/2010	ED/30/2010
29	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	6/18/2010	ED/30/2010
30	Sodium chromate	231-889-5	2146108	6/18/2010	ED/30/2010
31	Ammonium dichromate	232-143-1	2151163	6/18/2010	ED/30/2010
32	Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	6/18/2010	ED/30/2010
33	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	6/18/2010	ED/30/2010
34	Potassium dichromate	231-906-6	7778-50-9	6/18/2010	ED/30/2010
35	Trichloroethylene	201-167-4	79-01-6	6/18/2010	ED/30/2010
36	Cobalt(II) dinitrate	233-402-1	10141-05-6	12/15/2010	ED/95/2010
37	Cobalt(II) carbonate	208-169-4	513-79-1	12/15/2010	ED/95/2010
38	Chromium trioxide	215-607-8	1333-82-0	12/15/2010	ED/95/2010
39	2-Methoxyethanol	203-713-7	109-86-4	12/15/2010	ED/95/2010
40	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	231-801-5, 236-881-5	7738-94-5, 13530-68-2	12/15/2010	ED/95/2010
41	Cobalt(II) sulphate	233-334-2	10124-43-3	12/15/2010	ED/95/2010
42	2-Ethoxyethanol	203-804-1	110-80-5	12/15/2010	ED/95/2010
43	Cobalt(II) diacetate	200-755-8	71-48-7	12/15/2010	ED/95/2010
44	Hydrazine	206-114-9	302-01-2, 7803-57-8	6/20/2011	ED/31/2011
45	2-Ethoxyethyl acetate	203-839-2	111-15-9	6/20/2011	ED/31/2011
46	1,2,3-Trichloropropane	202-486-1	96-18-4	6/20/2011	ED/31/2011

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No.	Substance Name	EC Number	CAS Number	Date of Inclusion	Decision Number
47	1-Methyl-2-pyrrolidone	212-828-1	872-50-4	6/20/2011	ED/31/2011
48	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	6/20/2011	ED/31/2011
49	Strontium chromate	232-142-6	2151068	6/20/2011	ED/31/2011
50	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	6/20/2011	ED/31/2011
51	Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 – 2008/10/28	ED/31/2011 / ED/67/2008
52	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	12/19/2011	ED/77/2011
53	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	12/19/2011	ED/77/2011
54	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	-	-	12/19/2011	ED/77/2011/ED/95/2012
55	Trilead diarsenate	222-979-5	3687-31-8	12/19/2011	ED/77/2011
56	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	12/19/2011	ED/77/2011
57	Lead styphnate	239-290-0	15245-44-0	12/19/2011	ED/77/2011
58	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	12/19/2011	ED/77/2011
59	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	12/19/2011	ED/77/2011
60	Arsenic acid	231-901-9	7778-39-4	12/19/2011	ED/77/2011
61	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	-	-	12/19/2011	ED/77/2011 / ED/95/2012

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No.	Substance Name	EC Number	CAS Number	Date of Inclusion	Decision Number
	oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight				
62	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	12/19/2011	ED/77/2011
63	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	12/19/2011	ED/77/2011
64	Dichromium tris(chromate)	246-356-2	24613-89-6	12/19/2011	ED/77/2011
65	Calcium arsenate	231-904-5	7778-44-1	12/19/2011	ED/77/2011
66	1,2-dichloroethane	203-458-1	107-06-2	12/19/2011	ED/77/2011
67	Lead dipicrate	229-335-2	6477-64-1	12/19/2011	ED/77/2011
68	Lead diazide, Lead azide	236-542-1	13424-46-9	12/19/2011	ED/77/2011
69	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	12/19/2011	ED/77/2011
70	N,N-dimethylacetamide	204-826-4	127-19-5	12/19/2011	ED/77/2011
71	Phenolphthalein	201-004-7	77-09-8	12/19/2011	ED/77/2011
72	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	6/18/2012	ED/87/2012
73	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	6/18/2012	ED/87/2012
74	[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)]	219-943-6	2580-56-5	6/18/2012	ED/87/2012
75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	6/18/2012	ED/87/2012
76	[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)]	208-953-6	548-62-9	6/18/2012	ED/87/2012
77	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	6/18/2012	ED/87/2012
78	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)]	209-218-2	561-41-1	6/18/2012	ED/87/2012
79	Formamide	200-842-0	75-12-7	6/18/2012	ED/87/2012
80	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	6/18/2012	ED/87/2012
81	Diboron trioxide	215-125-8	1303-86-2	6/18/2012	ED/87/2012
82	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	6/18/2012	ED/87/2012
83	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	6/18/2012	ED/87/2012
84	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)]	229-851-8	6786-83-0	6/18/2012	ED/87/2012

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No.	Substance Name	EC Number	CAS Number	Date of Inclusion	Decision Number
85	Lead cyanamidate	244-073-9	20837-86-9	12/19/2012	ED/169/2012
86	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	12/19/2012	ED/169/2012
87	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	12/19/2012	ED/169/2012
88	4,4'-oxydianiline and its salts	202-977-0	101-80-4	12/19/2012	ED/169/2012
89	Orange lead (lead tetroxide)	215-235-6	1314-41-6	12/19/2012	ED/169/2012
90	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	12/19/2012	ED/169/2012
91	Biphenyl-4-ylamine	202-177-1	92-67-1	12/19/2012	ED/169/2012
92	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	12/19/2012	ED/169/2012
93	Diisopentylphthalate	210-088-4	605-50-5	12/19/2012	ED/169/2012
94	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	12/19/2012	ED/169/2012
95	o-aminoazotoluene	202-591-2	97-56-3	12/19/2012	ED/169/2012
96	Trilead dioxide phosphonate	235-252-2	12141-20-7	12/19/2012	ED/169/2012
97	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	12/19/2012	ED/169/2012
98	Methoxyacetic acid	210-894-6	625-45-6	12/19/2012	ED/169/2012
99	Pentacosfluorotridecanoic acid	276-745-2	72629-94-8	12/19/2012	ED/169/2012
100	Dioxobis(8tearate)trilead	235-702-8	12578-12-0	12/19/2012	ED/169/2012
101	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	12/19/2012	ED/169/2012
102	Tricosfluorododecanoic acid	206-203-2	307-55-1	12/19/2012	ED/169/2012
103	Heptacosfluorotetradecanoic acid	206-803-4	376-06-7	12/19/2012	ED/169/2012
104	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	12/19/2012	ED/169/2012
105	N-pentyl-isopentylphthalate	-	776297-69-9	12/19/2012	ED/169/2012
106	Tetraethyllead	201-075-4	78-00-2	12/19/2012	ED/169/2012
107	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	12/19/2012	ED/169/2012
108	Acetic acid, lead salt, basic	257-175-3	51404-69-4	12/19/2012	ED/169/2012
109	Tetralead trioxide sulphate	235-380-9	12202-17-4	12/19/2012	ED/169/2012
110	N-methylacetamide	201-182-6	79-16-3	12/19/2012	ED/169/2012
111	1,2-Diethoxyethane	211-076-1	629-14-1	12/19/2012	ED/169/2012
112	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	12/19/2012	ED/169/2012
113	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	12/19/2012	ED/169/2012
114	Lead titanium trioxide	235-038-9	12060-00-3	12/19/2012	ED/169/2012
115	Lead oxide sulfate	234-853-7	12036-76-9	12/19/2012	ED/169/2012
116	Furan	203-727-3	110-00-9	12/19/2012	ED/169/2012
117	4-Nonylphenol, branched 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	-	-	12/19/2012	ED/169/2012

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No.	Substance Name	EC Number	CAS Number	Date of Inclusion	Decision Number
	isomers or a combination thereof]				
118	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	12/19/2012	ED/169/2012
119	N,N-dimethylformamide	200-679-5	68-12-2	12/19/2012	ED/169/2012
120	Dimethyl sulphate	201-058-1	77-78-1	12/19/2012	ED/169/2012
121	Diethyl sulphate	200-589-6	64-67-5	12/19/2012	ED/169/2012
122	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	12/19/2012	ED/169/2012
123	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	12/19/2012	ED/169/2012
124	Silicic acid (H ₂ Si ₂ O ₅), 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 Regulation (EC) No 1272/2008]	272-271-5	68784-75-8	12/19/2012	ED/169/2012
125	Lead dinitrate	233-245-9	10099-74-8	12/19/2012	ED/169/2012
126	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	12/19/2012	ED/169/2012
127	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	12/19/2012	ED/169/2012
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	12/19/2012	ED/169/2012
129	o-Toluidine	202-429-0	95-53-4	12/19/2012	ED/169/2012
130	Lead monoxide (lead oxide)	215-267-0	1317-36-8	12/19/2012	ED/169/2012
131	Lead titanium zirconium oxide	235-727-4	12626-81-2	12/19/2012	ED/169/2012
132	Silicic acid, lead salt	234-363-3	11120-22-2	12/19/2012	ED/169/2012
133	4-Aminoazobenzene	200-453-6	60-09-3	12/19/2012	ED/169/2012
134	Henicosfluoroundecanoic acid	218-165-4	2058-94-8	12/19/2012	ED/169/2012
135	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	12/19/2012	ED/169/2012
136	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]	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	12/19/2012	ED/169/2012
137	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	12/19/2012	ED/169/2012

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No.	Substance Name	EC Number	CAS Number	Date of Inclusion	Decision Number
138	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]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	12/19/2012	ED/169/2012
139	Cadmium oxide	215-146-2	1306-19-0	6/20/2013	ED/69/2013
140	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 well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	-	6/20/2013	ED/69/2013
141	Dipentyl phthalate (DPP)	205-017-9	131-18-0	6/20/2013	ED/69/2013
142	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	6/20/2013	ED/69/2013
143	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	6/20/2013	ED/69/2013
144	Cadmium	231-152-8	7440-43-9	6/20/2013	ED/69/2013
145	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	12/16/2013	ED/121/2013
146	Dihexyl phthalate	201-559-5	84-75-3	12/16/2013	ED/121/2013
147	Lead di(acetate)	206-104-4	301-04-2	12/16/2013	ED/121/2013
148	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	12/16/2013	ED/121/2013
149	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)	217-710-3	1937-37-7	12/16/2013	ED/121/2013
150	Trixylyl phosphate	246-677-8	25155-23-1	12/16/2013	ED/121/2013
151	Cadmium sulphide	215-147-8	1306-23-6	12/16/2013	ED/121/2013
152	Cadmium chloride	233-296-7	10108-64-2	6/16/2014	ED/49/2014
153	Sodium peroxometaborate	231-556-4	7632-04-4	6/16/2014	ED/49/2014
154	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	15120-21-5	6/16/2014	ED/49/2014
155	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	6/16/2014	ED/49/2014
156	Cadmium fluoride	232-222-0	7790-79-6	2014/12/17	ED/108/2014

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No.	Substance Name	EC Number	CAS Number	Date of Inclusion	Decision Number
157	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)	-	-	2014/12/17	ED/108/2014
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	2014/12/17	ED/108/2014
159	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	2014/12/17	ED/108/2014
160	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	2014/12/17	ED/108/2014
161	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	2014/12/17	ED/108/2014
162	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)	271-094-0 272-013-1	68515-51-5 68648-93-1	2015/06/15	ED/39/2015
163	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]	-	-	2015/06/15	ED/39/2015
164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	2015/12/17	ED/79/2015
165	Nitrobenzene	202-716-0	98-95-3	2015/12/17	ED/79/2015
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	2015/12/17	ED/79/2015
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	2015/12/17	ED/79/2015
168	1,3-propanesultone	214-317-9	1120-71-4	2015/12/17	ED/79/2015
169	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	2016/6/20	ED/21/2016
170	p-(1,1-dimethylpropyl)phenol	221-280-9	80-46-6	2017/1/12	ED/01/2017
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts (Decanoic acid, nonadecafluoro-, sodium salt)	221-470-5 206-400-3	3830-45-3 3108-42-7 335-76-2	2017/1/12	ED/01/2017
172	4-heptylphenol, branched and linear	-	-	2017/1/12	ED/01/2017
173	4,4'-isopropylidenediphenol (BPA)	201-245-8	80-05-7	2017/1/12	ED/01/2017
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	2017/7/07	ED/30/2017
175	Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2	2018/1/15	ED/01/2018
176	Cadmium carbonate	208-168-9	513-78-0	2018/1/15	ED/01/2018
177	Cadmium hydroxide	244-168-5	21041-95-2	2018/1/15	ED/01/2018

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No.	Substance Name	EC Number	CAS Number	Date of Inclusion	Decision Number
178	Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	2018/1/15	ED/01/2018
179	Chrysene	205-923-4	218-01-9, 1719-03-5	2018/1/15	ED/01/2018
180	Dodecachloropentacyclo[12.2.1.16,9.0 2,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM)	-	-	2018/1/15	ED/01/2018
181	Reaction products of 1,3,4- thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	2018/1/15	ED/01/2018