



REACH Certificate of Compliance

(163 substances— June 15, 2015)

Exar does not use any Substances of Very High Concern (SVHC) listed under REACH requirements in below listed products or in their manufacturing processes based on the inputs from its suppliers. Table A is a list of these substances.

EXAR Part Number	
SP485ECN-L	SP485ECN-L/TR
SP485ECP-L	-
SP485EEN-L	SP485EEN-L/TR
SP485EEP-L	-
SP485EMN-L	SP485EMN-L/TR

September 8, 2015

Chiew Mee Foo
QA Manager



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Table A: List of REACH-SVHC

	Date of Inclusion: June 15, 2015	EC Number			
163	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	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]	-
162	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]	-	139	Cadmium oxide	215-146-2
	Date of Inclusion: December 17, 2014	EC Number		Date of Inclusion: December 19, 2012	EC Number
161	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	138	Trilead dioxide phosphonate	235-252-2
160	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	137	Trilead bis(carbonate)dihydroxide	215-290-6
159	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	136	Tricosafuorododecanoic acid	206-203-2
158	Cadmium fluoride	232-222-0	135	Tetralead trioxide sulphate	235-380-9
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)	-	134	Tetraethyllead	201-075-4
156	Cadmium sulphate	233-331-6	133	Sulfurous acid, lead salt, dibasic	263-467-1
	Date of Inclusion: June 16, 2014	EC Number	132	Silicic acid, lead salt	234-363-3
155	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	131	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
154	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	130	Pyrochlore, antimony lead yellow	232-382-1
153	Sodium peroxometaborate	231-556-4	129	Pentalead tetraoxide sulphate	235-067-7
152	Cadmium chloride	233-296-7	128	Pentacosafuorotridecanoic acid	276-745-2
	Date of Inclusion: December 16, 2013	EC Number	127	Orange lead (lead tetroxide)	215-235-6
151	Cadmium sulphide	215-147-8	126	o-Toluidine	202-429-0
150	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	125	o-aminoazotoluene	202-591-2
149	Dihexyl phthalate	201-559-5	124	N-pentyl-isopentylphthalate	-
148	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	123	N-methylacetamide	201-182-6
147	Trixylyl phosphate	246-677-8	122	N,N-dimethylformamide	200-679-5
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	121	Methyloxirane (Propylene oxide)	200-879-2
145	Lead di(acetate)	206-104-4	120	Methoxyacetic acid	210-894-6
	Date of Inclusion: June 20, 2013	EC Number	119	Lead titanium zirconium oxide	235-727-4
144	Cadmium	231-152-8	118	Lead titanium trioxide	235-038-9
143	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	117	Lead oxide sulfate	234-853-7
142	Pentadecafluorooctanoic acid (PFOA)	206-397-9	116	Lead monoxide (lead oxide)	215-267-0
141	Dipentyl phthalate (DPP)	205-017-9	115	Lead dinitrate	233-245-9
			114	Lead cyanamidate	244-073-9
			113	Lead bis(tetrafluoroborate)	237-486-0
			112	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
			111	Heptacosafuorotetradecanoic acid	206-803-4
			110	Henicosafuoroundecanoic acid	218-165-4
			109	Furan	203-727-3
			108	Fatty acids, C16-18, lead salts	292-966-7
			107	Dioxobis(stearato)trilead	235-702-8
			106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7



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105	Dimethyl sulphate	201-058-1	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
104	Diisopentylphthalate	210-088-4			
103	Diethyl sulphate	200-589-6			
102	Dibutyltin dichloride (DBTC)	211-670-0			
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8			
100	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	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9
99	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	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
98	Biphenyl-4-ylamine	202-177-1	73	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3
97	Acetic acid, lead salt, basic	257-175-3	72	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5
96	[Phthalato(2-)]dioxotrilead	273-688-5		Date of Inclusion: December 19, 2011	EC Number
95	6-methoxy-m-toluidine (p-cresidine)	204-419-1	71	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2
94	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 isomers or a combination thereof]	-	70	N,N-dimethylacetamide	204-826-4
93	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	69	Phenolphthalein	201-004-7
92	4-Aminoazobenzene	200-453-6	68	Lead diazide, Lead azide	236-542-1
91	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	67	Lead dipicrate	229-335-2
90	4,4'-oxydianiline and its salts	202-977-0	66	1,2-dichloroethane	203-458-1
89	4,4'-methylenedi-o-toluidine	212-658-8	65	Calcium arsenate	231-904-5
88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	64	Dichromium tris(chromate)	246-356-2
87	1-bromopropane (n-propyl bromide)	203-445-0	63	2-Methoxyaniline; o-Anisidine	201-963-1
86	1,2-Diethoxyethane	211-076-1	62	Pentazinc chromate octahydroxide	256-418-0
85	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	61	Arsenic acid	231-901-9
	Date of Inclusion: June 18, 2012	EC Number	60	Potassium hydroxyoctaoxodizincatedichromate	234-329-8
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	59	Formaldehyde, oligomeric reaction products with aniline	500-036-1
83	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	58	Lead styphnate	239-290-0
82	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	57	Trilead diarsenate	222-979-5
81	Diboron trioxide	215-125-8	56	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	
80	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	55	Bis(2-methoxyethyl) phthalate	204-212-6
79	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			
78	Lead(II) bis(methanesulfonate)	401-750-5			
77	Formamide	200-842-0			



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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, 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		31	Boric acid	233-139-2, 234-343-4
53	Bis(2-methoxyethyl) ether	203-924-4	30	Sodium chromate	231-889-5
52	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	29	Disodium tetraborate, anhydrous	215-540-4
51	Cobalt dichloride	231-589-4	28	Potassium chromate	232-140-5
	Date of Inclusion: June 20, 2011	EC Number		Date of Inclusion: March 30, 2010	EC Number
50	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	27	Acrylamide	201-173-7
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6		Date of Inclusion: January 13, 2010	EC Number
48	Strontium chromate	232-142-6	26	Lead sulphochromate yellow (C.I. Pigment Yellow 34)	215-693-7
47	1-Methyl-2-pyrrolidone	212-828-1	25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9
46	1,2,3-Trichloropropane	202-486-1	24	Anthracene oil	292-602-7
45	2-Ethoxyethyl acetate	203-839-2	23	2,4-Dinitrotoluene	204-450-0
44	Hydrazine	206-114-9	22	Anthracene oil, anthracene paste, anthracene fraction	295-275-9
	Date of Inclusion: December 15, 2010	EC Number	21	Anthracene oil, anthracene-low	292-604-8
43	Cobalt(II) diacetate	200-755-8	20	Tris(2-chloroethyl)phosphate	204-118-5
42	Cobalt(II) sulphate	233-334-2	19	Diisobutyl phthalate	201-553-2
41	2-Ethoxyethanol	203-804-1	18	Lead chromate	231-846-0
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	17	Anthracene oil, anthracene paste	292-603-2
39	2-Methoxyethanol	203-713-7	16	Pitch, coal tar, high temp.	266-028-2
38	Chromium trioxide	215-607-8	15	Anthracene oil, anthracene paste, distn. lights	295-278-5
37	Cobalt(II) carbonate	208-169-4		Date of Inclusion: October 28, 2008	EC Number
36	Cobalt(II) dinitrate	233-402-1	14	Lead hydrogen arsenate	232-064-2
	Date of Inclusion: June 18, 2010	EC Number	13	Benzyl butyl phthalate (BBP)	201-622-7
35	Trichloroethylene	201-167-4	12	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0
34	Potassium dichromate	231-906-6	11	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4
33	Tetraboron disodium heptaoxide, hydrate	235-541-3	10	Diarsenic trioxide	215-481-4
32	Ammonium dichromate	232-143-1	9	Bis(tributyltin)oxide (TBTO)	200-268-0
			8	Triethyl arsenate	427-700-2
			7	Diarsenic pentaoxide	215-116-9
			6	Sodium dichromate	234-190-3
			5	Dibutyl phthalate (DBP)	201-557-4
			4	4,4'- Diaminodiphenylmethane (MDA)	202-974-4
			3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5
			2	Anthracene	204-371-1
			1	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4, 221-695-9