

STATEMENT OF COMPLIANCE TO EU REACH, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

July 2, 2018

As a global supplier of frequency control devices, Fox Electronics has a policy of conducting business in an environmentally responsible manner and operating within all regulatory guidelines.

Fox Electronics products are considered articles under REACH. As such, we are obligated to report any product containing the 191 Substances of Very High Concern (SVHC), listed below, in quantities greater than 0.1% (w/w) and total quantity used is over 1 tonne.

Original – October 2008

Substance	EC No	CAS #
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8
Anthracene	204-371-1	120-12-7
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7
Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9
Cobalt dichloride	231-589-4	7646-79-9
Diarsenic pentaoxide	215-116-9	1303-28-2
Diarsenic trioxide	215-481-4	1327-53-3
Dibutyl phthalate (DBP)	201-557-4	84-74-2
Hexabromocyclododecane (HBCDD) and all major diastereoisomers:	247-148-4 / 221-695-9	25637-99-4 / 3194-55-6
Alpha-hexabromocyclododecane		(134237-50-6)
Beta-hexabromocyclododecane		(134237-51-7)
Gamma-hexabromocyclododecane		(134237-52-8)
Lead hydrogen arsenate	232-064-2	7784-40-9
Sodium dichromate	234-190-3	7789-12-0 / 10588-01-9
Triethyl arsenate	427-700-2	15606-95-8

Added – January 2010

2,4-Dinitrotoluene	204-450-0	121-14-2
Anthracene oil	292-602-7	90640-80-5
Anthracene oil, anthracene paste	292-603-2	90640-81-6

Substance	EC No	CAS #
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4
Anthracene oil, anthracene-low	292-604-8	90640-82-7
Diisobutyl phthalate	201-553-2	84-69-5
Lead chromate	231-846-0	7758-97-6
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
Pitch, coal tar, high temp.	266-028-2	65996-93-2
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8
Added – March 2010		
Acrylamide	201-173-7	79-06-1
Added – June 2010		
Ammonium dichromate	232-143-1	7789-09-5
Boric acid	233-139-2 / 234-343-4	10043-35-3 / 11113-50-1
Disodium tetraborate, anhydrous	215-540-4	1303-96-4 / 1330-43-4 / 12179-04-3
Potassium chromate	232-140-5	7789-00-6
Potassium dichromate	231-906-6	7778-50-9
Sodium chromate	231-889-5	7775-11-3
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
Trichloroethylene	201-167-4	79-01-6
Added – December 2010		
Cobalt (II) Sulphate	233-334-2	10124-43-3
Cobalt (II) Dinitrate	233-402-1	10141-05-6
Cobalt (II) Carbonate	208-169-4	513-79-1
Cobalt (II) Diacetate	200-755-8	71-48-7
2-Methoxyethanol	203-713-7	109-86-4
2-Ethoxyethanol	203-804-1	110-80-5
Chromium Trioxide	215-607-8	1333-82-0
Acids generated by Chromium Trioxide and their oligomers: Chromic Acid, Dichromic acid, Oligomers of chromic and dichromic acid	231-801-5 236-881-5	7738-94-5 13530-68-2
Added – June 2011		
Substance	EC No	CAS #
1,2,3-Trichloropropane	202-486-1	96-18-4
1,2-Benzenedicarboxylic acid di-C6-8-branched alkyl esters C7-rich	276-158-1	71888-89-6
1,2-Benzenedicarboxylic acid di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4
1-Methyl-2-pyrrolidone	212-828-1	872-50-4
2-Ethoxyethyl acetate	203-839-2	111-15-9
Hydrazine	206-114-9	302-01-2 / 7803-57-8
Strontium chromate	232-142-6	7789-06-2

Added – December 2011

Substance
Lead styphnate
Lead diazide, Lead azide
Lead dipicrate
Phenolphthalein
2,2'-Dichloro-4,4'-methylenedianiline (MOCA)
N,N-dimethylacetamide (DMAC)
Trilead diarsenate
Calcium arsenate
Arsenic acid
Bis(2-methoxyethyl) ether
1,2-Dichloroethane
4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol
2-Methoxyaniline; o-Anisidine
Bis(2-methoxyethyl) phthalate
Formaldehyde, oligomeric reaction products with aniline (technical MDA)
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
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
Pentazinc chromate octahydroxide
Potassium hydroxyoctaoxodizincatedichromate
Dichromium tris(chromate)

EC No
239-290-0
236-542-1
229-335-2
201-004-7
202-918-9
204-826-4
222-979-5
231-904-5
231-901-9
203-924-4
203-458-1
205-426-2
201-963-1
204-212-6
500-036-1
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256-418-0
234-329-8
246-356-2

CAS #
15245-44-0
13424-46-9
6477-64-1
77-09-8
101-14-4
127-19-5
3687-31-8
7778-44-1
7778-39-4
111-96-6
107-06-2
140-66-9
90-04-0
117-82-8
25214-70-4
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49663-84-5
11103-86-9
24613-89-6

Added – June 2012 –

Substance
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)
Diboron trioxide – see footnote #1 concerning glass
Formamide
Lead(II) bis(methanesulfonate)
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)

EC No
203-977-3
203-794-9
215-125-8
200-842-0
401-750-5
219-514-3
423-400-0
202-027-5
202-959-2

CAS #
112-49-2
110-71-4
1303-86-2
75-12-7
17570-76-2
2451-62-9
59653-74-6
90-94-8
101-61-1

Added – June 2012 – continued

[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)]
[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)]
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)]
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)]

219-943-6
208-953-6
209-218-2
229-851-8

2580-56-5
548-62-9
561-41-1
6786-83-0

Added – December 2012 –

Substance
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)
Pentacosafuorotridecanoic acid
Tricosafuorododecanoic acid
Henicosafuoroundecanoic acid
Heptacosafuorotetradecanoic acid
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))
Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3]
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4]
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]
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated
Methoxyacetic acid
N,N-dimethylformamide
Dibutyltin dichloride (DBTC)
Lead monoxide (Lead oxide)
Orange lead (Lead tetroxide)
Lead bis(tetrafluoroborate)
Trilead bis(carbonate)dihydroxide
Lead titanium trioxide
Lead titanium zirconium oxide
Silicic acid, lead salt
Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped
1-bromopropane (n-propyl bromide)
Methyloxirane (Propylene oxide)
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear
Diisopentylphthalate (DIPP)
N-pentyl-isopentylphthalate
1,2-diethoxyethane

EC No
214-604-9
276-745-2
206-203-2
218-165-4
206-803-4
204-650-8
201-604-9, 236-086-3, 238-009-9
247-094-1, 243-072-0, 256-356-4, 260-566-1
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210-894-6
200-679-5
211-670-0
215-267-0
215-235-6
237-486-0
215-290-6
235-038-9
235-727-4
234-363-3
272-271-5
203-445-0
200-879-2
284-032-2
210-088-4
-
211-076-1

CAS #
1163-19-5
72629-94-8
307-55-1
2058-94-8
376-06-7
123-77-3
85-42-7, 13149-00-3, 14166-21-3
25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9
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625-45-6
68-12-2
683-18-1
1317-36-8
1314-41-6
13814-96-5
1319-46-6
12060-00-3
12626-81-2
11120-22-2
68784-75-8
106-94-5
75-56-9
84777-06-0
605-50-5
776297-69-9
629-14-1

Added – December 2012 -- continued

Acetic acid, lead salt, basic
Lead oxide sulfate
[Phthalato(2-)]dioxotrilead
Dioxobis(stearato)trilead
Fatty acids, C16-18, lead salts
Lead cyanamide
Lead dinitrate
Pentalead tetraoxide sulphate
Pyrochlore, antimony lead yellow
Sulfurous acid, lead salt, dibasic
Tetraethyllead
Tetralead trioxide sulphate

257-175-3
234-853-7
273-688-5
235-702-8
292-966-7
244-073-9
233-245-9
235-067-7
232-382-1
263-467-1
201-075-4
235-380-9

51404-69-4
12036-76-9
69011-06-9
12578-12-0
91031-62-8
20837-86-9
10099-74-8
12065-90-6
8012-00-8
62229-08-7
78-00-2
12202-17-4

Trilead dioxide phosphonate
Furan
Diethyl sulphate
Dimethyl sulphate
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
Dinoseb (6-sec-butyl-2,4-dinitrophenol)
4,4'-methylenedi-o-toluidine
4,4'-oxydianiline and its salts
4-aminoazobenzene
4-methyl-m-phenylenediamine (toluene-2,4-diamine)
6-methoxy-m-toluidine (p-cresidine)
Biphenyl-4-ylamine
o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]
o-toluidine
N-methylacetamide

235-252-2
203-727-3
200-589-6
201-058-1
421-150-7
201-861-7
212-658-8
202-977-0
200-453-6
202-453-1
204-419-1
202-177-1
202-591-2
202-429-0
201-182-6

12141-20-7
110-00-9
64-67-5
77-78-1
143860-04-2
88-85-7
838-88-0
101-80-4
60-09-3
95-80-7
120-71-8
92-67-1
97-56-3
95-53-4
79-16-3

Added – June 20 2013

Substance
Cadmium
Cadmium oxide
Ammonium pentadecafluorooctanoate (APFO)
Pentadecafluorooctanoic acid (PFOA)
Dipentyl phthalate (DPP)
4-Nonylphenol, branched and linear, ethoxylated <i>[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]</i>

EC No
231-152-8
215-146-2
223-320-4
206-397-9
205-017-9
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CAS #
7440-43-9
1306-19-0
3825-26-1
335-67-1
131-18-0
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Added – December 16 2013

Substance
Cadmium sulphide
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)
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)
Dihexyl phthalate
Imidazolidine-2-thione (2-imidazoline-2-thiol)
Lead di(acetate)
Trixylyl phosphite

EC No
215-147-8
209-358-4
217-710-3
201-559-5
202-506-9
206-104-4
246-677-8

CAS #
1306-23-6
573-58-0
1937-37-7
84-75-3
96-45-7
301-04-2
25155-23-1

Added – June 16, 2014

Substance
Cadmium chloride
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear
Sodium peroxometaborate
Sodium perborate; perboric acid, sodium salt

EC No
233-296-7
271-093-5
231-556-4
239-172-9;
234-390-0

CAS #
10108-64-2
68515-50-4
7632-04-4
Not Assigned

Added – December 2014

Substance
Cadmium fluoride
Cadmium sulphate
2-benzotriazol-2-yl-4,6-di-tert-butylphenol
2-(2H-benzotriazol-2-yl)-4,6-
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) 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)

EC No
232-222-0
233-331-6
223-346-6
247-384-8
239-622-4
Not Assigned

CAS #
7790-79-6
10124-36-4; 31119-53-6
3846-71-7
25973-55-1
15571-58-1
Not Assigned

Added – June 2015		EC No	CAS #
Substance 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	68515-51-5
		272-013-1	68648-93-1
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]		Not Assigned	Not Assigned
Added – December 2015		EC No	CAS #
Substance Nitrobenzene		202-716-0	98-95-3
		223-383-8	3864-99-1
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)			
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)		253-037-1	36437-37-3
1,3-propanesultone		214-317-9	1120-71-4
			375-95-1
Perfluorononan-1-oic-acid and its sodium and ammonium salts		206-801-3	21049-39-8
			4149-60-4
Added – June 2016		EC No	CAS #
Substance Benzo[def]chrysene (Benzo[a]pyrene)		200-028-5	50-32-8
Added – January 2017		EC No	CAS #
Substance 4,4'-isopropylidenediphenol (bisphenol A; BPA)		201-245-8	80-05-7
		206-400-3	335-76-2
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		-	3830-45-3
p-(1,1-dimethylpropyl)phenol		221-470-5	3108-42-7
4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]		201-280-9	80-46-6
		-	-
Added – July 2017		EC No	CAS #
Substance Perfluorohexane-1-sulfonic acid and its salts (PFHxS)		-	-
Added – January 15 2018		EC No	CAS #
Substance Chrysene		205-923-4	218-01-9
		200-280-6	56-55-3
Benz[a]anthracene		233-710-6	10325-94-7
Cadmium Nitrate		244-168-5	21041-95-2
Cadmium Hydroxide		208-168-9	513-78-0
Cadmium Carbonate			
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16.9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]		-	-
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]		-	-
Added – June 2018 --		EC No	CAS #
Substance Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA		209-008-0	552-30-7
		205-883-8	191-24-2
Benzo[ghi]perylene			
Decamethylcyclopentasiloxane D5		208-764-9	541-02-6
Dicyclohexyl phthalate DCHP		201-545-9	84-61-7
Disodium octaborate		234-541-0	12008-41-2
Dodecamethylcyclohexasiloxane D6		208-762-8	540-97-6
Ethylenediamine EDA		203-468-6	107-15-3

Lead
Octamethylcyclotetrasiloxane D4
Terphenyl, hydrogenated

231-100-4
209-136-7
262-967-7

7439-92-1
556-67-2
61788-32-7

After reviewing our processes and consulting with our partners, Fox Electronics has determined that our products and packaging are in compliance with the REACH regulations, including Annex XVII . - see footnote #1

Fox Electronics Inc



Gene Trefethen
President
July 2, 2018

footnote #1 Under REACH:

Glass is not a mixture of compounds such as metals or oxides like SiO₂, Na₂O, CaO, B₂O₃, etc.

Glass does not contain the oxidized chemicals in the different raw materials. Therefore as Diboron Trioxide is not present in the glass in its molecular form or Boron Oxide cannot be released under normal or reasonably foreseeable conditions, there are no obligations applying under the EU REACH regulation of communication to customers and notification to ECHA for articles containing glass, due to the inclusion of Diboron Trioxide (EU# 215-125-8 / CAS# 1303-86-2) to REACH Annex XIV.