

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)

January 16, 2019

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 197 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	EC No	CAS #
Lead styphnate	239-290-0	15245-44-0
Lead diazide, Lead azide	236-542-1	13424-46-9
Lead dipicrate	229-335-2	6477-64-1
Phenolphthalein	201-004-7	77-09-8
2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4
N,N-dimethylacetamide (DMAC)	204-826-4	127-19-5
Trilead diarsenate	222-979-5	3687-31-8
Calcium arsenate	231-904-5	7778-44-1
Arsenic acid	231-901-9	7778-39-4
Bis(2-methoxyethyl) ether	203-924-4	111-96-6
1,2-Dichloroethane	203-458-1	107-06-2
4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	205-426-2	140-66-9
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4
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	256-418-0	49663-84-5
Potassium hydroxyoctaoxidzincatedichromate	234-329-8	11103-86-9
Dichromium tris(chromate)	246-356-2	24613-89-6

Added – June 2012 --

Substance	EC No	CAS #
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
Diboron trioxide – see footnote #1 concerning glass	215-125-8	1303-86-2
Formamide	200-842-0	75-12-7
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	219-514-3	2451-62-9
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
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	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 SiO 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

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>

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

Added – June 16, 2014

Substance

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

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)

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

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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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

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

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

Substance
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)
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]

EC No
271-094-0 272-013-1
Not Assigned

CAS #
68515-51-5 68648-93-1
Not Assigned

Added – December 2015

Substance
Nitrobenzene
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)
1,3-propanesultone
Perfluorononan-1-ic-acid and its sodium and ammonium salts/propanesultone

EC No
202-716-0 223-383-8
253-037-1 214-317-9
206-801-3

CAS #
98-95-3 3864-99-1
36437-37-3 1120-71-4 375-95-1 21049-39-8 4149-60-4

Added – June 2016

Substance
Benzo[def]chrysene (Benzo[a]pyrene)

EC No
200-028-5

CAS #
50-32-8

Added – January 2017

Substance
4,4'-isopropylidenediphenol (bisphenol A; BPA)
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts
p-(1,1-dimethylpropyl)phenol
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]

EC No
201-245-8 206-400-3 - 221-470-5 201-280-9
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CAS #
80-05-7 335-76-2 3830-45-3 3108-42-7 80-46-6
-

Added – July 2017

Substance
Perfluorohexane-1-sulfonic acid and its salts (PFHxS)

EC No
-

CAS #
-

Added – January 15 2018

Substance
Chrysene
Benz[a]anthracene
Cadmium Nitrate
Cadmium Hydroxide
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 $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]

EC No
205-923-4 200-280-6 233-710-6 244-168-5 208-168-9
-
-

CAS #
218-01-9 56-55-3 10325-94-7 21041-95-2 513-78-0
-
-

Added – June 2018 –

Substance
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA
Benzo[ghi]perylene
Decamethylcyclopentasiloxane D5
Dicyclohexyl phthalate DCHP
Disodium octaborate
Dodecamethylcyclohexasiloxane D6
Ethylenediamine
EDA

EC No
209-008-0 205-883-8
208-764-9
201 545 9 234-541-0
208-762-8
203-468-6

CAS #
552-30-7 191-24-2
541-02-6
84 61 7 12008-41-2
540-97-6
107-15-3

Lead	231-100-4	7439-92-1
Octamethylcyclotetrasiloxane	209-136-7	556-67-2
D4	262-967-7	61788-32-7
Terphenyl, hydrogenated		
<i>Added – January 2019</i>		
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8
3-benzylidene camphor; 3-BC		
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6
Benzo[k]fluoranthene	205-916-6	207-08-9
Fluoranthene	205-912-4	206-44-0; 93951-69-0
Phenanthrene	201-581-5	85-01-8
Pyrene	204-927-3	129-00-0; 1718-52-1

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
January 16, 2019

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.