

 FREQUENCY MANAGEMENT INTERNATIONAL 15302 Bolsa Chica Street, Huntington Beach, CA 92649-1245, USA ph 714 373 8100 800 800 9825 www.fmi-inc.com fax 714 373 8100			
REACH SVHC List in this Table, Total Number: 163 Substances (Updated on 16 June 2015)			
ECHA Source: http://echa.europa.eu/candidate-list-table			
The FMI Letter of Compliance to EU REACH REGULATIONS - Frequency Management International operates within all the regulatory guidelines for the European Union Reach program. Article 33 of the Reach legislation requires that we, as a supplier, would identify and declare if our products contain "SVHC's" (Substances of Very High Concern) and if the substance is present in the final article at a concentration above 0.1% w/w (weight by weight).			
Name	EC Number	CAS Number	Date of inclusion
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	6/15/15
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]			6/15/15
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	2014/12/17; 2008/10/28
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	12/17/14
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	12/17/14
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	12/17/14
Cadmium fluoride	232-222-0	7790-79-6	12/17/14
Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	12/17/14
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)			12/17/14
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	271-093-5	68515-50-4	6/16/14
Cadmium chloride	233-296-7	10108-64-2	6/16/14
Sodium perborate, perboric acid, sodium salt	239-172-9, 234-390-0		6/16/14
Sodium peroxometaborate	231-556-4	7632-4-4,	6/16/14
Cadmium sulphide	215-147-8	1306-23-6	12/16/13
Dihexyl phthalate	201-559-5	84-75-3	12/16/13
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	12/16/13
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	12/16/13
Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	12/16/13
Lead di(acetate)	206-104-4	301-04-2	12/16/13
Trixylyl phosphate	246-677-8	25155-23-1	12/16/13
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]			6/20/13
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	6/20/13
Cadmium	231-152-8	7440-43-9	6/20/13
Cadmium oxide	215-146-2	1306-19-0	6/20/13
Dipentyl phthalate (DPP)	205-017-9	131-18-0	6/20/13
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	6/20/13
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	12/19/12
1,2-Diethoxyethane	211-076-1	629-14-1	12/19/12
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	12/19/12
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	12/19/12
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	12/19/12
4,4'-oxydianiline and its salts	202-977-0	101-80-4	12/19/12
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]			12/19/12
4-Aminoazobenzene	200-453-6	60-09-3	12/19/12
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	12/19/12
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]			12/19/12
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	12/19/12
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	12/19/12
Acetic acid, lead salt, basic	257-175-3	51404-69-4	12/19/12
Biphenyl-4-ylamine	202-177-1	92-67-1	12/19/12

Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	12/19/12
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	12/19/12
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3	12/19/12
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	12/19/12
Diethyl sulphate	200-589-6	64-67-5	12/19/12
Diisopentylphthalate	210-088-4	605-50-5	12/19/12
Dimethyl sulphate	201-058-1	77-78-1	12/19/12
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	12/19/12
Dioxobis(stearato)trilead	235-702-8	12578-12-0	12/19/12
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	12/19/12
Furan	203-727-3	110-00-9	12/19/12
Henicosafuoroundecanoic acid	218-165-4	2058-94-8	12/19/12
Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	12/19/12
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	12/19/12
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	12/19/12
Lead cyanamidate	244-073-9	20837-86-9	12/19/12
Lead dinitrate	233-245-9	10099-74-8	12/19/12
Lead monoxide (lead oxide)	215-267-0	1317-36-8	12/19/12
Lead oxide sulfate	234-853-7	12036-76-9	12/19/12
Lead titanium trioxide	235-038-9	12060-00-3	12/19/12
Lead titanium zirconium oxide	235-727-4	12626-81-2	12/19/12
Methoxyacetic acid	210-894-6	625-45-6	12/19/12
Methyloxirane (Propylene oxide)	200-879-2	75-56-9	12/19/12
N,N-dimethylformamide	200-679-5	68-12-2	12/19/12
N-methylacetamide	201-182-6	79-16-3	12/19/12
N-pentyl-isopentylphthalate		776297-69-9	12/19/12
o-aminoazotoluene	202-591-2	97-56-3	12/19/12
o-Toluidine	202-429-0	95-53-4	12/19/12
Orange lead (lead tetroxide)	215-235-6	1314-41-6	12/19/12
Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	12/19/12
Pentalead tetraoxide sulphate	235-067-7	12065-90-6	12/19/12
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	12/19/12
Silicic acid (H ₂ SiO 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	12/19/12
Silicic acid, lead salt	234-363-3	11120-22-2	12/19/12
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	12/19/12
Tetraethyllead	201-075-4	78-00-2	12/19/12
Tetralead trioxide sulphate	235-380-9	12202-17-4	12/19/12
Tricosafuorododecanoic acid	206-203-2	307-55-1	12/19/12
Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	12/19/12
Trilead dioxide phosphonate	235-252-2	12141-20-7	12/19/12
1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-977-3	112-49-2	6/18/12
1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	6/18/12
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	6/18/12
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	6/18/12
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	6/18/12
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	6/18/12
[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	6/18/12

[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	6/18/12
Diboron trioxide	215-125-8	1303-86-2	6/18/12
Formamide	200-842-0	75-12-7	6/18/12
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	6/18/12
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	6/18/12
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	6/18/12
1,2-Dichloroethane	203-458-1	107-06-2	12/19/11
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	12/19/11
2-Methoxyaniline,o-Anisidine	201-963-1	90-04-0	12/19/11
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	12/19/11
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			12/19/11
Arsenic acid	231-901-9	7778-39-4	12/19/11
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	12/19/11
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	12/19/11
Calcium arsenate	231-904-5	7778-44-1	12/19/11
Dichromium tris(chromate)	246-356-2	24613-89-6	12/19/11
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	12/19/11
Lead diazide, Lead azide	236-542-1	13424-46-9	12/19/11
Lead dipicrate	229-335-2	6477-64-1	12/19/11
Lead styphnate	239-290-0	15245-44-0	12/19/11
N,N-dimethylacetamide	204-826-4	127-19-5	12/19/11
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	12/19/11
Phenolphthalein	201-004-7	77-09-8	12/19/11
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	12/19/11
Trilead diarsenate	222-979-5	3687-31-8	12/19/11
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			12/19/11
Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 - 2008/10/28
1,2,3-trichloropropane	202-486-1	96-18-4	6/20/11
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	6/20/11
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	6/20/11
1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	6/20/11
2-Ethoxyethyl acetate	203-839-2	111-15-9	6/20/11
Hydrazine	206-114-9	302-01-2, 7803-57-8	6/20/11
Strontium chromate	232-142-6	7789-6-2,	6/20/11
2-Ethoxyethanol	203-804-1	110-80-5	12/15/10
2-Methoxyethanol	203-713-7	109-86-4	12/15/10
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	12/15/10
Chromium trioxide	215-607-8	1333-82-0	12/15/10
Cobalt(II) carbonate	208-169-4	513-79-1	12/15/10
Cobalt(II) diacetate	200-755-8	71-48-7	12/15/10

Cobalt(II) dinitrate	233-402-1	10141-05-6	12/15/10
Cobalt(II) sulphate	233-334-2	10124-43-3	12/15/10
Ammonium dichromate	232-143-1	7789-9-5,	6/18/10
Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	6/18/10
Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	6/18/10
Potassium chromate	232-140-5	7789-00-6	6/18/10
Potassium dichromate	231-906-6	7778-50-9	6/18/10
Sodium chromate	231-889-5	7775-11-3,	6/18/10
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	6/18/10
Trichloroethylene	201-167-4	79-01-6	6/18/10
Acrylamide	201-173-7	79-06-1	3/30/10
2,4-Dinitrotoluene	204-450-0	121-14-2	1/13/10
Anthracene oil	292-602-7	90640-80-5	1/13/10
Anthracene oil, anthracene paste	292-603-2	90640-81-6	1/13/10
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	1/13/10
Anthracene oil, anthracene paste, distr. lights	295-278-5	91995-17-4	1/13/10
Anthracene oil, anthracene-low	292-604-8	90640-82-7	1/13/10
Diisobutyl phthalate	201-553-2	84-69-5	1/13/10
Lead chromate	231-846-0	7758-97-6	1/13/10
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	1/13/10
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	1/13/10
Pitch, coal tar, high temp.	266-028-2	65996-93-2	1/13/10
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	1/13/10
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	10/28/08
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	10/28/08
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	10/28/08
Anthracene	204-371-1	120-12-7	10/28/08
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	10/28/08
Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	10/28/08
Diarsenic pentaoxide	215-116-9	1303-28-2	10/28/08
Diarsenic trioxide	215-481-4	1327-53-3	10/28/08
Dibutyl phthalate (DBP)	201-557-4	84-74-2	10/28/08
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4, 221-695-9	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	10/28/08
Lead hydrogen arsenate	232-064-2	7784-40-9	10/28/08
Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	10/28/08
Triethyl arsenate	427-700-2	15606-95-8	10/28/08