

REACH Declaration Letter

Rev.17

Based on information collected from FMD's vendor survey and product material declaration data sheet, we hereby declare that all FMD's semiconductor products can meet the EU REACH SVHC restricted requirement on the substances below.

No.	Substance name	EC No.	CAS No.
1	2,4-Dinitrotoluene	204-450-0	121-14-2
2	2-Ethoxyethanol	203-804-1	110-80-5
3	2-Methoxyethanol	203-713-7	109-86-4
4	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9
5	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2
6	Acrylamide	201-173-7	79-06-1
7	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8
8	Ammonium dichromate	232-143-1	7789-09-5
9	Anthracene	204-371-1	120-12-7
10	Anthracene oil	292-602-7	90640-80-5
11	Anthracene oil, anthracene paste	292-603-2	90640-81-6
12	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
13	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4
14	Anthracene oil, anthracene-low	292-604-8	90640-82-7
15	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
16	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7
17	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9
18	Boric acid	233-139-2 234-343-4	10043-35-3 11113-50-1
19	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	231-801-5 236-881-5	7738-94-5 13530-68-2
20	Chromium trioxide	215-607-8	1333-82-0
21	Cobalt dichloride	231-589-4	7646-79-9
22	Cobalt(II) carbonate	208-169-4	513-79-1

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23	Cobalt(II) diacetate	200-755-8	71-48-7
24	Cobalt(II) dinitrate	233-402-1	10141-05-6
25	Cobalt(II) sulphate	233-334-2	10124-43-3
26	Diarsenic pentaoxide	215-116-9	1303-28-2
27	Diarsenic trioxide	215-481-4	1327-53-3
28	Dibutyl phthalate (DBP)	201-557-4	84-74-2
29	Diisobutyl phthalate	201-553-2	84-69-5
30	Disodium tetraborate, anhydrous	215-540-4	1303-96-4 1330-43-4 12179-04-3
31	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)
32	Lead chromate	231-846-0	7758-97-6
33	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
34	Lead hydrogen arsenate	232-064-2	7784-40-9
35	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
36	Pitch, coal tar, high temp.	266-028-2	65996-93-2
37	Potassium chromate	232-140-5	7789-00-6
38	Potassium dichromate	231-906-6	7778-50-9
39	Sodium chromate	231-889-5	7775-11-3
40	Sodium dichromate	234-190-3	7789-12-0 10588-01-9
41	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
42	Trichloroethylene	201-167-4	79-01-6
43	Triethyl arsenate	427-700-2	15606-95-8
44	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8
45	2-ethoxyethyl acetate	203-839-2	111-15-9
46	Strontium chromate	232-142-6	7789-06-2

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47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	271-084-6	68515-42-4
48	Hydrazine	206-114-9	302-01-2 7803-57-8
49	1-methyl-2-pyrrolidone	212-828-1	872-50-4
50	1,2,3-trichloropropane	202-486-1	96-18-4
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	276-158-1	71888-89-6
52	Dichromium tris(chromate)	246-356-2	24613-89-6
53	Potassium hydroxyoctaoxodizincatedi-chromate	234-329-8	11103-86-9
54	Pentazinc chromate octahydroxide	256-418-0	49663-84-5
55	Aluminosilicate Refractory Ceramic Fibres (RCF)	-	-
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	-	-
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4
58	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
59	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	205-426-2	140-66-9
61	1,2-Dichloroethane	203-458-1	107-06-2
62	Bis(2-methoxyethyl) ether	203-924-4	111-96-6
63	Arsenic acid	231-901-9	7778-39-4
64	Calcium arsenate	231-904-5	7778-44-1
65	Trilead diarsenate	222-979-5	3687-31-8
66	N,N-dimethylacetamide (DMAC)	204-826-4	127-19-5
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4
68	Phenolphthalein	201-004-7	77-09-8
69	Lead azide Lead diazide	236-542-1	13424-46-9
70	Lead styphnate	239-290-0	15245-44-0
71	Lead dipicrate	229-335-2	6477-64-1
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4

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74	Diboron trioxide	215-125-8	1303-86-2
75	Formamide	200-842-0	75-12-7
76	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
77	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione(TGIC)	219-514-3	2451-62-9
78	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
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6	2580-56-5
82	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	208-953-6	548-62-9
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	209-218-2	561-41-1
84	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8	6786-83-0
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5
86	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8
87	Tricosafuorododecanoic acid	206-203-2	307-55-1
88	Henicosafuoroundecanoic acid	218-165-4	2058-94-8
89	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3
91	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	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3

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	this entry].		
92	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
93	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]	-	-
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
95	Methoxyacetic acid	210-894-6	625-45-6
96	N,N-dimethylformamide	200-679-5	68-12-2
97	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
98	Lead monoxide (Lead oxide)	215-267-0	1317-36-8
99	Orange lead (Lead tetroxide)	215-235-6	1314-41-6
100	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
101	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6
102	Lead titanium trioxide	235-038-9	12060-00-3
103	Lead titanium zirconium oxide	235-727-4	12626-81-2
104	Silicic acid, lead salt	234-363-3	11120-22-2
105	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
106	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
107	Methyloxirane (Propylene oxide)	200-879-2	75-56-9

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108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
109	Diisopentylphthalate (DIPP)	210-088-4	605-50-5
110	N-pentyl-isopentylphthalate	-	776297-69-9
111	1,2-diethoxyethane	211-076-1	629-14-1
112	Acetic acid, lead salt, basic	257-175-3	51404-69-4
113	Lead oxide sulfate	234-853-7	12036-76-9
114	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
115	Dioxobis(stearato)trilead	235-702-8	12578-12-0
116	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
117	Lead cyanamidate	244-073-9	20837-86-9
118	Lead dinitrate	233-245-9	10099-74-8
119	Pentalead tetraoxide sulphate	235-067-7	12065-90-6
120	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
121	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
122	Tetraethyllead	201-075-4	78-00-2
123	Tetrolead trioxide sulphate	235-380-9	12202-17-4
124	Trilead dioxide phosphonate	235-252-2	12141-20-7
125	Furan	203-727-3	110-00-9
126	Diethyl sulphate	200-589-6	64-67-5
127	Dimethyl sulphate	201-058-1	77-78-1
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
130	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
131	4,4'-oxydianiline and its salts	202-977-0	101-80-4
132	4-aminoazobenzene	200-453-6	60-09-3
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
134	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
135	Biphenyl-4-ylamine	202-177-1	92-67-1
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	202-591-2	97-56-3
137	o-toluidine	202-429-0	95-53-4

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138	N-methylacetamide	201-182-6	79-16-3
139	Cadmium	231-152-8	7440-43-9
140	Cadmium oxide	215-146-2	1306-19-0
141	Amm onium pentade cafluorooctanoate (APFO)	223-320-4	3825-26-1
142	Pentadecafluorooctanoic acid(PFOA)	206-397-9	335-67-1
143	Dipentyl phthalate (DPP)	205-017-9	131-18-0
144	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]	-	-
145	Cadmium sulphide	215-147-8	1306-23-6
146	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
147	Dihexyl phthalate	201-559-5	84-75-3
148	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7
149	Trixylyl phosphate	246-677-8	25155-23-1
150	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
151	Lead di(acetate)	206-104-4	301-04-2
152	Cadmium chloride	233-296-7	10108-64-2
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
154	Sodlum peroxometaborate	231-556-4	7632-4-4
155	Sodium perborate; perboric acid, sodium salt	239-172-9 234-390-0	-
156	Cadmium fluoride	232-222-0	7790-79-6
157	cadmium sulphate	233-331-6	10124-36-4 31119-53-6
158	UV-320 2-benzotriazol-2-yl-4,6-di-tert-butylphenol	223-346-6	3846-71-7
159	UV-328 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	247-384-8	25973-55-1

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160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	239-622-4	15571-58-1
161	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoat	/	/
162	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)	271-094-0 272-013-1	68515-51-5 68648-93-1
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]	/	/
164	Nitrobenzene	202-716-0	98-95-3
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3
167	1,3-propanesultone	1120-71-4	214-317-9
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4
169	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8
170	4,4'-isopropylidenediphenol Bisphenol A;	214-245-8	80-05-7
171	4-heptylphenol, branched and linear		
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5	3830-45-3 3108-42-7 335-76-2
173	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	206-587-1	355-46-4

- 1) The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5)
- 2) The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5) and less than 0.1% w/w benzene (EINECS No 200-753-7)
- 3) The substance does not meet the criteria for identification as a mutagen in situations where it contains less than 0.1% w/w benzene (EINECS No 200-753-7)

Quality Control Department
Fremont Micro Devices (HK) Limited

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Authorised Signature(s)

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