



To whom it may concern

CERTIFICATE OF COMPLIANCE

Product covered:

- IC in bare die,
- IC in bare die with solder or gold bumps,
- IC assembled in plastic package DIP, SOIC, QFN, PSOP, PLCC, QFP, TSSOP, SOT, SC-70, EMDFN.

REACH – EU Regulation 1907/2006 and SVHC-73 List

EM Microelectronic certifies that to the best of their knowledge the material stated above will not contain any of the REACH Substances of Very High Concern (SVHC) above the limit of 0.1% set by REACH Article 33, as specified in the table below according to the Candidate list published by ECHA (European Chemical Agency).
http://www.echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

EM Microelectronic products comply with the restrictions imposed by the 76/769/EEC European Directive and which have been included in the Annex XVII of REACH.

Date: 12.03.2012

EM MICROELECTRONIC-MARIN SA

Pierre TSCHIRREN
Senior Quality Manager

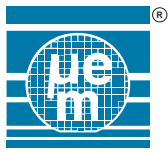
Tuan PHAM
VP Production



#	Substance name	EC number	CAS number	Date of inclusion
1	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			19.12.2011
2	Calcium arsenate	231-904-5	7778-44-1	19.12.2011
3	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19.12.2011
4	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			19.12.2011
5	Potassium hydroxyoctaoxidizincatedichromate	234-329-8	11103-86-9	19.12.2011
6	Lead dipicrate	229-335-2	6477-64-1	19.12.2011
7	N,N-dimethylacetamide	204-826-4	127-19-5	19.12.2011
8	Arsenic acid	231-901-9	7778-39-4	19.12.2011
9	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	19.12.2011
10	Trilead diarsenate	222-979-5	3687-31-8	19.12.2011
11	1,2-dichloroethane	203-458-1	107-06-2	19.12.2011
12	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19.12.2011
13	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	19.12.2011
14	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19.12.2011
15	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19.12.2011
16	Lead diazide, Lead azide	236-542-1	13424-46-9	19.12.2011
17	Lead styphnate	239-290-0	15245-44-0	19.12.2011
18	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	19.12.2011
19	Phenolphthalein	201-004-7	77-09-8	19.12.2011
20	Dichromium tris(chromate)	246-356-2	24613-89-6	19.12.2011
21	Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 - 2008/10/28
22	1,2,3-Trichloropropane	202-486-1	96-18-4	20.06.2011
23	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	20.06.2011
24	1-Methyl-2-pyrrolidone	212-828-1	872-50-4	20.06.2011
25	Hydrazine	206-114-9	302-01-2, 7803-57-8	20.06.2011
26	Strontium chromate	232-142-6	7789-06-2	20.06.2011
27	2-Ethoxyethyl acetate	203-839-2	111-15-9	20.06.2011
28	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	20.06.2011
29	Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	231-801-5, 236-881-5	7738-94-5, 13530-68-2	15.12.2010
30	Cobalt(II) carbonate	208-169-4	513-79-1	15.12.2010
31	Cobalt(II) diacetate	200-755-8	71-48-7	15.12.2010
32	2-Methoxyethanol	203-713-7	109-86-4	15.12.2010
33	Chromium trioxide	215-607-8	1333-82-0	15.12.2010



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34	Cobalt(II) dinitrate	233-402-1	10141-05-6	15.12.2010
35	Cobalt(II) sulphate	233-334-2	10124-43-3	15.12.2010
36	2-Ethoxyethanol	203-804-1	110-80-5	15.12.2010
37	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	18.06.2010
38	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18.06.2010
39	Potassium dichromate	231-906-6	7778-50-9	18.06.2010
40	Ammonium dichromate	232-143-1	7789-09-5	18.06.2010
41	Trichloroethylene	201-167-4	79-01-6	18.06.2010
42	Sodium chromate	231-889-5	7775-11-3	18.06.2010
43	Potassium chromate	232-140-5	7789-00-6	18.06.2010
44	Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	18.06.2010
45	Acrylamide	201-173-7	79-06-1	30.03.2010
46	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	13.01.2010
47	Lead chromate	231-846-0	7758-97-6	13.01.2010
48	Anthracene oil, anthracene-low (2) (3)	292-604-8	90640-82-7	13.01.2010
49	2,4-Dinitrotoluene	204-450-0	121-14-2	13.01.2010
50	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	13.01.2010
51	Anthracene oil, anthracene paste, anthracene fraction (2) (3)	295-275-9	91995-15-2	13.01.2010
52	Anthracene oil (1)	292-602-7	90640-80-5	13.01.2010
53	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 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 two following conditions: a) Al ₂ O ₃ and SiO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 43.5 - 47 % w/w, and SiO ₂ : 49.5 - 53.5 % w/w, or Al ₂ O ₃ : 45.5 - 50.5 % w/w, and SiO ₂ : 48.5 - 54 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).	-	Extracted from Index no.: 650-017-00-8	13.01.2010
54	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 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 two following conditions: a) Al ₂ O ₃ , SiO ₂ and ZrO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 35 - 36 % w/w, and SiO ₂ : 47.5 - 50 % w/w, and ZrO ₂ : 15 - 17 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).	-	Extracted from Index no. 650-017-00-8	13.01.2010
55	Pitch, coal tar, high temp.	266-028-2	65996-93-2	13.01.2010
56	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	13.01.2010
57	Anthracene oil, anthracene paste, distn. lights (2) (3)	295-278-5	91995-17-4	13.01.2010
58	Diisobutyl phthalate	201-553-2	84-69-5	13.01.2010
59	Anthracene oil, anthracene paste (2) (3)	292-603-2	90640-81-6	13.01.2010
60	Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	28.10.2008
61	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	28.10.2008
62	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	28.10.2008
63	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	28.10.2008



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64	Triethyl arsenate	427-700-2	15606-95-8	28.10.2008
65	Dibutyl phthalate (DBP)	201-557-4	84-74-2	28.10.2008
66	Diarsenic trioxide	215-481-4	1327-53-3	28.10.2008
67	Anthracene	204-371-1	120-12-7	28.10.2008
68	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	28.10.2008
69	Lead hydrogen arsenate	232-064-2	7784-40-9	28.10.2008
70	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	28.10.2008
71	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	28.10.2008
72	Diarsenic pentaoxide	215-116-9	1303-28-2	28.10.2008
73	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	28.10.2008

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).