



REACH Substances of Very High Concern (SVHC) Declaration

This declaration covers the following products manufactured by or on behalf of GeneSiC Semiconductor, Inc. and shipped after the date of declaration:

Product Identification	Silicon Carbide Merged PiN-Schottky (MPS™) Diodes Silicon Carbide SLT Series Diodes Silicon Carbide PiN Diodes Silicon Carbide MOSFETs Silicon Carbide Junction Transistors Silicon Carbide Thyristors
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These products are considered to be “articles” under regulation EC 1907/2006 concerning registration, evaluation, authorization, and restriction of chemicals, as amended through June 2009 under EU REACH. GeneSiC Semiconductor Inc. is not subject to the EU REACH pre-registration and registration requirements with respect to the products identified above. EU REACH requires GeneSiC Semiconductor Inc. to advise requestors of candidate list of substances of very high concern (SVHC) $\geq 0.1\%$ by total weight of “articles”.

GeneSiC Semiconductor Inc. declares that none of the following substances listed as substances of very high concern (SVHC) as of the date of declaration are intentionally added or used in the “articles” of the product groups identified above. The content determination is based on supplier information and internal process knowledge.

	Name	EC Number	CAS Number	Inclusion Date
1	1,2,3-trichloropropane	202-486-1	96-18-4	20/06/2011
2	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	-	15/06/2015
3	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	272-013-1	68648-93-1	15/06/2015
4	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	271-094-0	68515-51-5	15/06/2015
5	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	20/06/2011
6	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	20/06/2011
7	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	16/06/2014
8	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0	19/12/2012
9	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-977-3	112-49-2	18/06/2012
10	1,2-dichloroethane	203-458-1	107-06-2	19/12/2011
11	1,2-diethoxyethane	211-076-1	629-14-1	19/12/2012
12	1,2-dimethoxyethane, ethylene glycol dimethyl ether	203-794-9	110-71-4	18/06/2012
13	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	18/06/2012
14	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	18/06/2012

15	1,3-propanesultone	214-317-9	1120-71-4	17/12/2015
16	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™")	-	-	15/01/2018
17	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	19/12/2012
18	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	20/06/2011
19	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	19/12/2011
20	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	17/12/2015
21	2,4-dinitrotoluene	204-450-0	121-14-2	13/01/2010
22	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	17/12/2014
23	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	17/12/2015
24	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	17/12/2014
25	2-ethoxyethanol	203-804-1	110-80-5	15/12/2010
26	2-ethoxyethyl acetate	203-839-2	111-15-9	20/06/2011
27	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	17/12/2014
28	2-Methoxyaniline, o-Anisidine	201-963-1	90-04-0	19/12/2011
29	2-methoxyethanol	203-713-7	109-86-4	15/12/2010
30	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	19/12/2012
31	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	28/10/2008
32	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1	18/06/2012
33	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	18/06/2012
34	4,4'-isopropylidenediphenol	201-245-8	80-05-7	12/01/2017
35	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	19/12/2012
36	4,4'-oxydianiline and its salts	-	-	19/12/2012
37	4,4'-oxydianiline	202-977-0	101-80-4	19/12/2012
38	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	19/12/2011
39	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	19/12/2012
40	4-aminoazobenzene	200-453-6	60-09-3	19/12/2012
41	4-heptylphenol, branched and linear	-	-	12/01/2017
42	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	19/12/2012
43	4-Nonylphenol, branched and linear	-	-	19/12/2012
44	4-Nonylphenol, branched and linear, ethoxylated	-	-	20/06/2013
45	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]	-	-	15/06/2015
46	5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-	15/06/2015
47	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-	15/06/2015
48	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	28/10/2008
49	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	19/12/2012
50	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9	18/06/2012
51	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5	18/06/2012
52	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	19/12/2012
53	Acetic acid, lead salt, basic	257-175-3	51404-69-4	19/12/2012
54	Acids generated from chromium trioxide and their oligomers	-	-	15/12/2010

55	Dichromic acid	236-881-5	7738-94-5	15/12/2010
56	Chromic acid	231-801-5	13530-68-2	15/12/2010
57	Oligomers of chromic acid and dichromic acid	-	-	15/12/2010
58	Acrylamide	201-173-7	79-06-1	30/03/2010
59	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	28/10/2008
60	Aluminosilicate Refractory Ceramic Fibres	-	-	19/12/2011
61	Ammonium dichromate	232-143-1	7789-09-5	18/06/2010
62	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	20/06/2013
63	Anthracene	204-371-1	120-12-7	28/10/2008
64	Anthracene oil	292-602-7	90640-80-5	13/01/2010
65	Anthracene oil, anthracene paste	292-603-2	90640-81-6	13/01/2010
66	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	13/01/2010
67	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	13/01/2010
68	Anthracene oil, anthracene-low	292-604-8	90640-82-7	13/01/2010
69	Arsenic acid	231-901-9	7778-39-4	19/12/2011
70	Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2	15/01/2018
71	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	209-008-0	552-30-7	27/06/2018
72	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	20/06/2016
73	Benzo[ghi]perylene	205-883-8	191-24-2	27/06/2018
74	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	28/10/2008
75	Biphenyl-4-ylamine	202-177-1	92-67-1	19/12/2012
76	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	28/10/2008
77	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19/12/2011
78	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19/12/2011
79	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	19/12/2012
80	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	28/10/2008
81	Boric acid	-	-	18/06/2010
82	Boric acid, crude natural	234-343-4	11113-50-1	18/06/2010
83	Boric acid	233-139-2	10043-35-3	18/06/2010
84	Cadmium	231-152-8	7440-43-9	20/06/2013
85	Cadmium carbonate	208-168-9	513-78-0	15/01/2018
86	Cadmium chloride	233-296-7	10108-64-2	16/06/2014
87	Cadmium fluoride	232-222-0	7790-79-6	17/12/2014
88	Cadmium hydroxide	244-168-5	21041-95-2	15/01/2018
89	Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	15/01/2018
90	Cadmium oxide	215-146-2	1306-19-0	20/06/2013
91	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	17/12/2014
92	Cadmium sulphide	215-147-8	1306-23-6	16/12/2013
93	Calcium arsenate	231-904-5	7778-44-1	19/12/2011
94	Chromium trioxide	215-607-8	1333-82-0	15/12/2010
95	Chrysene	205-923-4	218-01-9, 1719-03-5	15/01/2018
96	Cobalt dichloride	231-589-4	7646-79-9	28/10/2008
97	Cobalt(II) carbonate	208-169-4	513-79-1	15/12/2010
98	Cobalt(II) diacetate	200-755-8	71-48-7	15/12/2010
99	Cobalt(II) dinitrate	233-402-1	10141-05-6	15/12/2010

100	Cobalt(II) sulphate	233-334-2	10124-43-3	15/12/2010
101	Cyclohexane-1,2-dicarboxylic anhydride	-	-	19/12/2012
102	cis-cyclohexane-1,2-dicarboxylic anhydride	236-086-3	13149-00-3	19/12/2012
103	Cyclohexane-1,2-dicarboxylic anhydride	201-604-9	85-42-7	19/12/2012
104	trans-cyclohexane-1,2-dicarboxylic anhydride	238-009-9	14166-21-3	19/12/2012
105	Decamethylcyclopentasiloxane	208-764-9	541-02-6	27/06/2018
106	Diarsenic pentaoxide	215-116-9	1303-28-2	28/10/2008
107	Diarsenic trioxide	215-481-4	1327-53-3	28/10/2008
108	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3	19/12/2012
109	Diboron trioxide	215-125-8	1303-86-2	18/06/2012
110	Dibutyl phthalate (DBP)	201-557-4	84-74-2	28/10/2008
111	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	19/12/2012
112	Dichromium tris(chromate)	246-356-2	24613-89-6	19/12/2011
113	Dicyclohexyl phthalate	201-545-9	84-61-7	27/06/2018
114	Diethyl sulphate	200-589-6	64-67-5	19/12/2012
115	Dihexyl phthalate	201-559-5	84-75-3	16/12/2013
116	Diisobutyl phthalate	201-553-2	84-69-5	13/01/2010
117	Diisopentyl phthalate	210-088-4	605-50-5	19/12/2012
118	Dimethyl sulphate	201-058-1	77-78-1	19/12/2012
119	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	19/12/2012
120	Dioxobis(stearato)trilead	235-702-8	12578-12-0	19/12/2012
121	Dipentyl phthalate (DPP)	205-017-9	131-18-0	20/06/2013
122	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	16/12/2013
123	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	16/12/2013
124	Disodium octaborate	234-541-0	12008-41-2	27/06/2018
125	Disodium tetraborate, anhydrous	215-540-4	12179-04-3, 1303-96-4, 1330-43-4	18/06/2010
126	Dodecamethylcyclohexasiloxane	208-762-8	540-97-6	27/06/2018
127	Ethylenediamine	203-468-6	107-15-3	27/06/2018
128	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	19/12/2012
129	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19/12/2011
130	Formamide	200-842-0	75-12-7	18/06/2012
131	Furan	203-727-3	110-00-9	19/12/2012
132	Henicosafuoroundecanoic acid	218-165-4	2058-94-8	19/12/2012
133	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	19/12/2012
134	Hexabromocyclododecane (HBCDD)	-	-	28/10/2008
135	Hexabromocyclododecane	247-148-4	25637-99-4	28/10/2008
136	gamma-hexabromocyclododecane	-	134237-52-8	28/10/2008
137	1,2,5,6,9,10-hexabromocyclododecane	221-695-9	3194-55-6	28/10/2008
138	alpha-hexabromocyclododecane	-	134237-50-6	28/10/2008
139	beta-hexabromocyclododecane	-	134237-51-7	28/10/2008
140	Hexahydromethylphthalic anhydride	-	-	19/12/2012
141	Hexahydro-4-methylphthalic anhydride	243-072-0	19438-60-9	19/12/2012
142	Hexahydro-3-methylphthalic anhydride	260-566-1	57110-29-9	19/12/2012
143	Hexahydro-1-methylphthalic anhydride	256-356-4	48122-14-1	19/12/2012

144	Hexahydromethylphthalic anhydride	247-094-1	25550-51-0	19/12/2012
145	Hydrazine	206-114-9	302-01-2, 7803-57-8	20/06/2011
146	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	16/12/2013
147	Lead	231-100-4	7439-92-1	27/06/2018
148	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	19/12/2012
149	Lead chromate	231-846-0	7758-97-6	13/01/2010
150	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	13/01/2010
151	Lead cyanamidate	244-073-9	20837-86-9	19/12/2012
152	Lead di(acetate)	206-104-4	301-04-2	16/12/2013
153	Lead diazide, Lead azide	236-542-1	13424-46-9	19/12/2011
154	Lead dinitrate	233-245-9	10099-74-8	19/12/2012
155	Lead dipicrate	229-335-2	6477-64-1	19/12/2011
156	Lead hydrogen arsenate	232-064-2	7784-40-9	28/10/2008
157	Lead monoxide (lead oxide)	215-267-0	1317-36-8	19/12/2012
158	Lead oxide sulfate	234-853-7	12036-76-9	19/12/2012
159	Lead styphnate	239-290-0	15245-44-0	19/12/2011
160	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	13/01/2010
161	Lead titanium trioxide	235-038-9	12060-00-3	19/12/2012
162	Lead titanium zirconium oxide	235-727-4	12626-81-2	19/12/2012
163	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	18/06/2012
164	Methoxyacetic acid	210-894-6	625-45-6	19/12/2012
165	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	19/12/2012
166	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	18/06/2012
167	N,N-dimethylacetamide	204-826-4	127-19-5	19/12/2011
168	N,N-dimethylformamide	200-679-5	68-12-2	19/12/2012
169	N-methylacetamide	201-182-6	79-16-3	19/12/2012
170	N-pentyl-isopentylphthalate	-	776297-69-9	19/12/2012
171	Nitrobenzene	202-716-0	98-95-3	17/12/2015
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	-	12/01/2017
173	Ammonium nonadecafluorodecanoate	221-470-5	3108-42-7	12/01/2017
174	Decanoic acid, nonadecafluoro-, sodium salt	-	3830-45-3	12/01/2017
175	Nonadecafluorodecanoic acid	206-400-3	335-76-2	12/01/2017
176	o-aminoazotoluene	202-591-2	97-56-3	19/12/2012
177	o-toluidine	202-429-0	95-53-4	19/12/2012
178	Octamethylcyclotetrasiloxane	209-136-7	556-67-2	27/06/2018
179	Orange lead (lead tetroxide)	215-235-6	1314-41-6	19/12/2012
180	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	12/01/2017
181	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	19/12/2012
182	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	20/06/2013
183	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	19/12/2012
184	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19/12/2011
185	Perfluorohexane-1-sulphonic acid and its salts	-	-	07/07/2017
186	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	-	17/12/2015
187	Ammonium salts of perfluorononan-1-oic-acid	-	4149-60-4	17/12/2015
188	Perfluorononan-1-oic-acid	206-801-3	375-95-1	17/12/2015
189	Sodium salts of perfluorononan-1-oic-acid	-	21049-39-8	17/12/2015
190	Phenolphthalein	201-004-7	77-09-8	19/12/2011

191	Pitch, coal tar, high-temp.	266-028-2	65996-93-2	13/01/2010
192	Potassium chromate	232-140-5	7789-00-6	18/06/2010
193	Potassium dichromate	231-906-6	7778-50-9	18/06/2010
194	Potassium hydroxyoctaoxidizincatedichromate	234-329-8	11103-86-9	19/12/2011
195	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	19/12/2012
196	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)	-	-	17/12/2014
197	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	15/01/2018
198	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	272-271-5	68784-75-8	19/12/2012
199	Silicic acid, lead salt	234-363-3	11120-22-2	19/12/2012
200	Sodium chromate	231-889-5	7775-11-3	18/06/2010
201	Sodium dichromate	234-190-3	10588-01-9, 7789-12-0	28/10/2008
202	Sodium perborate, perboric acid, sodium salt	-	-	16/06/2014
203	Perboric acid, sodium salt	234-390-0	11138-47-9	16/06/2014
204	Sodium perborate	239-172-9	15120-21-5	16/06/2014
205	Sodium peroxometaborate	231-556-4	7632-04-4	16/06/2014
206	Strontium chromate	232-142-6	7789-06-2	20/06/2011
207	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	19/12/2012
208	Terphenyl, hydrogenated	262-967-7	61788-32-7	27/06/2018
209	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18/06/2010
210	Tetraethyllead	201-075-4	78-00-2	19/12/2012
211	Tetralead trioxide sulphate	235-380-9	12202-17-4	19/12/2012
212	Trichloroethylene	201-167-4	79-01-6	18/06/2010
213	Tricosafuorododecanoic acid	206-203-2	307-55-1	19/12/2012
214	Triethyl arsenate	427-700-2	15606-95-8	28/10/2008
215	Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	19/12/2012
216	Trilead diarsenate	222-979-5	3687-31-8	19/12/2011
217	Trilead dioxide phosphonate	235-252-2	12141-20-7	19/12/2012
218	Tris(2-chloroethyl) phosphate	204-118-5	115-96-8	13/01/2010
219	Trixylyl phosphate	246-677-8	25155-23-1	16/12/2013
220	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-	19/12/2011
221	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0	18/06/2012

REACH Packaging and Shipping Declaration

According to the regulations of the European Chemical Agency (EChA), packaging and shipping materials used to ship these products have been determined not to contain substances of very high concern (SVHC), except a humidity indicator card and/or silica gel packet may have been included. If included, the humidity indicator may contain cobalt dichloride at greater than 0.1 % by weight.

Date	October 25 th , 2018
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Company Seal

This certification is considered to be part of GeneSIC Semiconductor's product specifications and only applies to the products' compliance with the specific regulation and industry specification listed above. Additional restrictions and/or controls relating to these or other substances and materials enacted by these or other governing bodies are outside the scope of this certification. No additional certifications, expressions of risk or liability, or further declarations are made, expressed or implied. The recipient or end user of this data is responsible for determining the applicability of this data to their specific use. GeneSIC Semiconductor reserves the right to modify or rescind this declaration with respect to products not yet defined.