

## ANNEX XVII RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The list of restrictions is the Annex XVII to REACH and includes all the restrictions adopted in the framework of REACH and the previous legislation, Directive 76/769/EEC. Each entry shows the substance or group of substances or the mixture, and the consequent restrictions conditions.

Taiwan Semiconductor hereby declares and guarantees that all products and packaging materials have been designed and manufactured in compliance with the EU REACH Regulation with respect to Annex XVII.

### ECHA SVHC ANNEX XVII LIST

No.	Substance name	CAS number	EC Number
1	Polychlorinated terphenyls (PCT)	-	-
2	Chloro-1-ethylene (monomer vinyl chloride)	75-01-4	200-831-0
3	Liquid substances or preparations, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/45/EC.	-	-
4	Tris (2,3 dibromopropyl) phosphate	126-72-7	204-799-9
5	Benzene	71-43-2	200-753-7
6a	Crocidolite	12001-28-4	-
6b	Amosite	12172-73-5	-
6c	Anthophyllite	77536-67-5	-
6d	Actinolite	77536-66-4	-
6e	Tremolite	77536-68-6	-
6f	Chrysotile	12001-29-5 132207-32-0	-
7	Tris(aziridinyl)phosphin oxide	5455-55-1	208-892-5
8	Polybromobiphenyls; Polybrominatedbiphenyls Z(PBB)	59536-65-1	-
9a	Soap bark powder ( <i>Quillaja saponaria</i> ) and its derivatives containing saponines	68990-67-0	273-620-4
9b	Powder of the roots of <i>Helleborus viridis</i> and <i>Helleborus niger</i>	-	-
9c	Powder of the roots of <i>Veratrum album</i> and <i>Veratrum nigrum</i>	-	-
9d	Benzidine and/or its derivatives	92-87-5	202-199-1
9e	o-Nitrobenzaldehyde	552-89-6	209-025-3
9f	Wood powder	-	-
10a	Ammonium sulphide	12135-76-1	235-223-4
10b	Ammonium hydrogen sulphide	12124-99-1	235-184-3
10c	Ammonium polysulphide	9080-17-5	232-989-1
11a	Volatile esters of bromoacetic acids: Methyl bromoacetate Ethyl	96-32-2	202-499-2
11b	bromoacetate	105-36-2	203-290-9
11c	Propyl bromoacetate Butyl	35223-80-4	-
11d	bromoacetate	18991-98-5	242-729-9
12	2-Naphthylamine and its salts	91-59-8	202-080-4
13	Benzidine and/or its derivatives	92-87-5	202-199-1
14	4-Nitrobiphenyl	92-93-3	202-204-7
15	4-Aminobiphenyl xenylamine and its salt	92-67-1	202-177-1
16a	Lead Carbonates: Neutral anhydrous carbonate (PbCO <sub>3</sub> )	598-63-0	209-943-4
16b	Lead Carbonates: Trilead-bis(carbonate)-dihydroxide 2PbCO <sub>3</sub> -Pb(OH) <sub>2</sub>	1319-46-6	215-290-6
17a	Lead Sulphates: PbSO <sub>4</sub>	7446-14-2	231-198-9

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No.	Substance name	CAS number	EC Number
17b	Lead Sulphates: Pb <sub>x</sub> SO <sub>4</sub>	15739-80-7	239-831-0
18	Mercury and its compounds	-	-
18a	Mercury	7439-97-6	231-106-7
19	Arsenic compounds	-	-
20	Organo stannic compounds	-	-
21	Di- $\mu$ -oxo-di-n-butylstannio hydroxyborane dibutyltin hydrogen borate C <sub>8</sub> H <sub>19</sub> BO <sub>3</sub> Sn (DBB)	75113-37-0	401-040-5
22	Pentachlorophenol and its salts and esters	87-86-5	201-778-6
23	Cadmium and its compounds	7440-43-9	231-152-8
24	Monomethyl — tetrachlorodiphenyl methane Trade name: Ugilec 141	76253-60-6	278-404-3
25	Monomethyl-dichloro-diphenyl methane Trade name: Ugilec 121, Ugilec 21;	-	-
26	Monomethyl-dibromo-diphenyl methane bromobenzyl bromotoluene, mixture of isomers Trade name: DBBT	99688-47-8	402-210-1
27	Nickel	7440-02-0	231-111-4
28	Substances which appear in Part 3 of Annex VI to Regulation (EC) No1272/2008 classified as carcinogen category 1A or 1B (Table 3.1) or carcinogen category 1 or 2 (Table 3.2)	-	-
29	Substances which appear in Part 3 of Annex VI to Regulation (EC) No1272/2008 classified as germ cell mutagen category 1A or 1B (Table 3.1) or mutagen category 1 or 2 (Table 3.2)	-	-
30	Substances which appear in Part 3 of Annex VI to Regulation (EC) No1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2)	-	-
31a	Creosote; wash oil	8001-58-9	232-287-5
31b	Creosote oil; wash oil	61789-28-4	263-047-8
31c	distillates (coal tar), naphthalene oils; naphthalene oil	84650-04-4	283-484-8
31d	Creosote oil, acenaphthene fraction; wash oil	90640-84-9	292-605-3
31e	distillates (coal tar), upper; heavy anthracene oil	65996-91-0	266-026-1
31f	anthracene oil	90640-80-5	292-602-7
31g	Tar acids, coal, crude; crude phenols	65996-85-2	266-019-3
31h	Creosote, wood	8021-39-4	232-419-1
31i	Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline	122384-78-5	310-191-5
32	Chloroform	67-66-3	200-663-8
34	1,1,2 Trichloroethane	79-00-5	201-166-9
35	1,1,2,2 Tetrachloroethane	79-34-5	201-197-8
36	1,1,1,2 Tetrachloroethane	630-20-6	211-135-1
37	Pentachloroethane	76-01-7	200-925-1
38	1,1 Dichloroethylene	75-35-4	200-864-0
40	Substances meeting the criteria of flammability in Directive 67/548/EEC and classified as flammable, highly flammable or extremely flammable regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	-	-
41	Hexachloroethane	67-72-1	200-6664
43	Azocolourants & Azo Dyes	-	-
45	Diphenylether, octabromo derivative C <sub>12</sub> H <sub>2</sub> Br <sub>8</sub> O	-	-
46a	Nonylphenol C <sub>6</sub> H <sub>4</sub> (OH)C <sub>9</sub> H <sub>19</sub>	25154-52-3	246-672-0
46b	Nonylphenol ethoxylate (C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>15</sub> H <sub>24</sub> O	-	-
47	Chromium VI compounds	-	-
48	Toluene	108-88-3	203-625-9
49	Trichlorobenzene	120-82-1	204-428-0

No.	Substance name	CAS number	EC Number
50a	Polycyclic-aromatic hydrocarbons (PAH):	50-32-8	
50b	1. Benzo(a)pyrene (BaP)	192-97-2	
50c	2. Benzo(e)pyrene (BeP)	56-55-3	
50d	3. Benzo(a)anthracene (BaA)	218-01-9	
50e	4. Chrysen (CHR)	205-99-2	-
50f	5. Benzo(b)fluoranthene (BbFA)	205-82-3	
50g	6. Benzo(j)fluoranthene (BjFA)	207-08-9	
50h	7. Benzo(k)fluoranthene (BkFA)	53-70-3	
50h	8. Dibenzo(a, h)anthracene (DBAhA)		
51a	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0
51b	Dibutyl phthalate (DBP)	84-74-2	201-557-4
51c	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
51d	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2
52a	di-'isononyl' phthalate (DINP)	28553-12-0 68515-48-0	249-079-5 271-090-9
52b	di-'isodecyl' phthalate (DIDP)	26761-40-0 68515-49-1	247-977-1 271-091-4
52c	di-n-octyl phthalate (DNOP)	117-84-0	204-214-7
54	2-(2-methoxyethoxy)ethanol (DEGME)	111-77-3	203-906-6
55	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	203-961-6
56	Methylenediphenyl diisocyanate (MDI)	26447-40-5	247-714-0
56a	4,4'-Methylenediphenyl diisocyanate	101-68-8	202-966-0
56b	2,4'-Methylenediphenyl diisocyanate	5873-54-1	227-534-9
56c	2,2'-Methylenediphenyl diisocyanate	2536-05-2	219-799-4
57	Cyclohexane	110-82-7	203-806-2
58	Ammonium nitrate (AN)	6484-52-2	229-347-8
59	Dichloromethane	75-09-2	200-838-9
60	Acrylamide	79-06-1	201-173-7
61	Dimethylfumarate (DMF)	624-49-7	210-849-0
62a	Phenylmercury acetate	62-38-4	200-532-5
62b	Phenylmercury propionate	103-27-5	203-094-3
62c	Phenylmercury 2-ethylhexanoate	13302-00-6	236-326-7
62d	Phenylmercury octanoate	13864-38-5	-
62e	Phenylmercury neodecanoate	26545-49-3	247-783-7
63	Lead and its compounds	7439-92-1	231-100-4
64	1,4-Dichlorobenzene (p-dichlorobenzene)	106-46-7	203-400-5
65	Inorganic ammonium salts	-	-
66	Bisphenol A	80-05-7	201-245-8
67	Bis(pentabromophenyl) ether	1163-19-5	214-604-9
68	C9-C14 linear and/or branched perfluorocarboxylic acids (C9-C14 PFCAs), their salts and C9-C14 PFCAs-related substances, perfluorononan-1-oic acid (PFNA); nonadecafluorodecanoic acid (PFDA); heneicosfluoroundecanoic acid (PFUnDA); tricosfluorododecanoic acid (PFDoDA); pentacosfluorotridecanoic acid (PFTrDA); heptacosfluorotetradecanoic acid (PFTDA); including their salts and precursors	-	-
69	Methanol	67-56-1	200-659-6
70	Octamethylcyclotetrasiloxane (D4) Decamethylcyclopentasiloxane (D5)	-	-
71	1-methyl-2-pyrrolidone	872-50-4 872-50-4	212-828-1
72	The substances listed in column 1 of the Table in Appendix 12 <a href="#">(EU) 2018/1513</a>	-	-

No.	Substance name	CAS number	EC Number
73	(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) silanetriol and any of its mono-,di-or tri-O-(alkyl) derivatives	-	-
74	Diisocyanates ● 2,2'-Methylenediphenyl diisocyanate ● m-tolylidene diisocyanate ● 4-methyl-m-phenylene diisocyanate ● Hexamethylene diisocyanate ● 2-methyl-m-phenylene diisocyanate ● 3,3'-dimethylbiphenyl-4,4'-diyl diisocyanate ● 2,4,6-triisopropyl-m-phenylene diisocyanate ● 1,3-bis(1-isocyanato-1-methylethyl)benzene ● 1,5-naphthylene diisocyanate ● 1,3-bis(isocyanatomethyl)benzene ● 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate ● 4,4'-methylenedicyclohexyl diisocyanate ● 2,4'-Methylenediphenyl diisocyanate ● 4,4'-Methylenediphenyl diisocyanate	- 2536-05-2 26471-62-5 584-84-9 822-06-0 91-08-7 91-97-4 2162-73-4 2778-42-9 3173-72-6 3634-83-1 4098-71-9 5124-30-1 5873-54-1 101-68-8	- 219-799-4 247-722-4 209-544-5 212-485-8 202-039-0 202-112-7 218-485-4 220-474-4 221-641-4 222-852-4 223-861-6 225-863-2 227-534-9 202-966-0
75	Substances in tattoo inks and permanent make up of the Table in Appendix 13	-	-
76	N,N-dimethylformamide	68-12-2	200-679-5
77	Formaldehyde and formaldehyde-releasing substances	50-00-0	200-001-8
78	Synthetic polymer microparticles	-	-

Remark:

 1.Reference: [Regulation \(EU\) 474/201](#); [Annex XVII to REACH](#); [\(EU\) 2018/1513](#)

2.Taiwan Semiconductor will continue to monitor developments of the REACH legislation and is committed to meeting our corporate responsibilities for protection of the environment

**Smile Chung**  
**Quality Reliability Assurance**  
**Taiwan Semiconductor Co., Ltd.**  
**January 24, 2024**


 Signature: Smile Chung