



## REACH Declaration

Seoulsemiconductor hereby declares that all products

- do not contain any of the listed Substances of Very High Concern (SVHCs) in amounts greater than 0.1% as is defined in REACH Article 57, Annex XIV, Directive 67/548/EEC
- do not contain substances, mixtures or articles subjected to the restrictions listed in REACH Annex XVII

Number of Substances on the Candidate list : 211 (last updated: 19 Jan 2021)

Batch No.	No	Substance name	CAS No.	Einecs. No
1th 28/10/2008	1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4
	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5
	4	Anthracene	120-12-7	204-371-1
	5	Benzyl butyl phthalate(BBP)	85-68-7	201-622-7
	6	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0
	7	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0
	8	Cobalt dichloride	7646-79-9	231-589-4
	9	Diarsenic pentaoxide	1303-28-2	215-116-9
	10	Diarsenic trioxide	1327-53-3	215-481-4
	11	Dibutyl phthalate (DBP)	84-74-2	201-557-4
	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified : - Hexabromocyclododecane - 1,2,5,6,9,10-hexabromocyclododecane - alpha-hexabromocyclododecane - beta-hexabromocyclododecane - gamma-hexabromocyclododecane	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	247-148-4 221-695-9 - - -
	13	Lead hydrogen arsenate	7784-40-9	232-064-2
	14	Sodium dichromate, dehydrate	7789-12-0 10588-01-9	234-190-3
	15	Triethyl arsenate	15606-95-8	427-700-2
2th 13/01/2010	16	Anthracene oil	90640-80-5	292-602-7
	17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5
	18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9
	19	Anthracene oil, anthracene-low	90640-82-7	292-604-8
	20	Anthracene oil, anthracene paste	90640-81-6	292-603-2
	21	Pitch, coal tar, high temp.	65996-93-2	266-028-2
	-	Aluminosilicate Refractory Ceramic Fibres	-	-
	-	Zirconia Aluminosilicate, Refractory Ceramic Fibres	-	-
	22	2,4-Dinitrotoluene	121-14-2	204-450-0
	23	Diisobutyl phthalate	84-69-5	201-553-2
	24	Lead chromate	7758-97-6	231-846-0
	25	Lead chromate molybdate sulphate red(C.I. Pigment Red 104)	12656-85-8	235-759-9
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	
27	tris(2-chloroethyl)phosphate	115-96-8	204-118-5	
3th 30/03/2010	28	Acrylamide	79-06-01	201-173-7
4th 18/06/2010	29	Trichloroethylene (TCE)	79-01-6	201-167-4
	30	Boric acid	10043-35-3	233-139-2
			11113-50-1	234-343-4
	31	Disodium tetraborate,anhydrous	1303-96-4 1330-43-4 12179-04-3	215-540-4

	32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
	33	Sodium chromate	7775-11-3	231-889-5
	34	Potassium chromate	7789-00-6	232-140-5
	35	Ammonium dichromate	7789-09-5	232-143-1
	36	Potassium dichromate	7778-50-9	231-906-6
	5th 15/12/2010	37	Cobalt(II) sulphate	10124-43-3
38		Cobalt(II) dinitrate	10141-05-6	233-402-1
39		Cobalt(II) carbonate	513-79-1	208-169-4
40		Cobalt(II) diacetate	71-48-7	200-755-8
41		2-Methoxyethanol	109-86-4	203-713-7
42		2-Ethoxyethanol	110-80-5	203-804-1
43		Chromium trioxide	1333-82-0	215-607-8
44		Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-5 - 13530-68-2	231-801-5 - 236-881-5
6th 20/06/2011	45	2-ethoxyethyl acetate	111-15-9	203-839-2
	46	strontium chromate	7789-06-2	232-142-6
	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6
	48	Hydrazine	7803-57-8 302-01-2	206-114-9
	49	1-methyl-2-pyrrolidone	872-50-4	212-828-1
	50	1,2,3-trichloropropane	96-18-4	202-486-1
	51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP)	71888-89-6	276-158-1
7th 19/12/2011	52	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 <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight	-	-
	53	Calcium arsenate	7778-44-1	231-904-5
	54	Bis(2-methoxyethyl) ether	111-96-6	203-924-4
	55	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 <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight	-	-
	56	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8
	57	Lead dipicrate	6477-64-1	229-335-2
	58	N,N-dimethylacetamide	127-19-5	204-826-4
	59	Arsenic acid	7778-39-4	231-901-9
	60	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
	61	Trilead diarsenate	3687-31-8	222-979-5
	62	1,2-dichloroethane	107-06-2	203-458-1
	63	Pentazinc chromate octahydroxide	49663-84-5	256-418-0
	64	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
	65	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
	66	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2
67	Lead diazide, Lead azide	13424-46-9	236-542-1	

	68	Phenolphthalein	1977-09-08	201-004-7
	69	Dichromium tris(chromate)	24613-89-6	246-356-2
	70	Lead styphnate	15245-44-0	239-290-0
	71	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
8th 18/06/2012	72	$\alpha,\alpha$ -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)]	6786-83-0	229-851-8
	73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
	74	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)	59653-74-6	423-400-0
	75	Diboron trioxide	1303-86-2	215-125-8
	76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3
	77	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)]	561-41-1	209-218-2
	78	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
	79	Formamide	75-12-7	200-842-0
	80	[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)]	548-62-9	208-953-6
	81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
	82	[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)]	2580-56-5	219-943-6
	83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3
	84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
	85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9
	86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2
	87	Tricosafuorododecanoic acid	307-55-1	206-203-2
	88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4
	89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4
	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-
	91	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	-	-
	92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
	93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHP)	85-42-7	201-604-9
	94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1
	95	Methoxy acetic acid	625-45-6	210-894-6
	96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
	97	Diisopentylphthalate (DIPP)	605-50-5	210-088-4
	98	N-pentyl-isopentylphthalate	-	-
	99	1,2-Diethoxyethane	629-14-1	211-076-1
	100	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5
	101	Dibutyltin dichloride (DBT)	683-18-1	211-670-0
	102	Acetic acid, lead salt, basic	51404-69-4	257-175-3
	103	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	1319-46-6	215-290-6
	104	Lead oxide sulfate (basic lead sulfate)	12036-76-9	234-853-7

9th 19/12/2012	105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9	273-688-5	
	106	Dioxobis(stearato)trilead	12578-12-0	235-702-8	
	107	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	
	108	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	
	109	Lead cyanamidate	20837-86-9	244-073-9	
	110	Lead dinitrate	10099-74-8	233-245-9	
	111	Lead oxide (lead monoxide)	1317-36-8	215-267-0	
	112	Lead tetroxide (orange lead)	1314-41-6	215-235-6	
	113	Lead titanium trioxide	12060-00-3	235-038-9	
	114	Lead Titanium Zirconium Oxide	12626-81-2	235-727-4	
	115	Pentalead tetraoxide sulphate	12065-90-6	235-067-7	
	116	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	
	117	Silicic acid, barium salt, lead-doped	68784-75-8	272-271-5	
	118	Silicic acid, lead salt	11120-22-2	234-363-3	
	119	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	
	120	Tetraethyllead	78-00-2	201-075-4	
	121	Tetralead trioxide sulphate	12202-17-4	235-380-9	
	122	Trilead dioxide phosphonate	12141-20-7	235-252-2	
	123	Furan	110-00-9	203-727-3	
	124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	
	125	Diethyl sulphate	64-67-5	200-589-6	
	126	Dimethyl sulphate	77-78-1	201-058-1	
	127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	
	128	Dinoseb	88-85-7	201-861-7	
	129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	
	130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	
	131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	
	132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	
	133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	
	134	Biphenyl-4-ylamine	92-67-1	202-177-1	
	135	o-aminoazotoluene	97-56-3	202-591-2	
	136	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	
	137	N-methylacetamide	79-16-3	201-182-6	
	138	1-bromopropane; n-propyl bromide	106-94-5	203-445-0	
	10th 20/06/2013	139	Cadmium	7440-43-9	231-152-8
		140	Cadmium oxide	1306-19-0	215-146-2
		141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4
		142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
143		Dipentyl phthalate (DPP)	131-18-0	205-017-9	
144		<i>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]</i>	-	-	
11th 16/12/20136	145	Cadmium sulphide	1306-23-6	215-147-8	
	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)	1937-37-7	217-710-3	
	147	Dihexyl phthalate	84-75-3	201-559-5	
	148	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	
	149	Trixylyl phosphate	25155-23-1	246-677-8	
	150	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis (4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	
	151	Lead di(acetate)	301-04-2	206-104-4	
12th 16/06/2014	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	
	153	Cadmium chloride	10108-64-2	233-296-7	
	-	Sodium perborate, perboric acid, sodium salt	-	-	
	154	Sodium perborate	15120-21-5	239-172-9	
	155	Perboric acid, sodium salt	11138-47-9	234-390-0	

	-	Sodium peroxometaborate	7632-04-4	231-556-4	
13th 17/12/2014	156	Cadmium fluoride	7790-79-6	232-222-0	
	157	Cadmium sulphate	10124-36-4 31119-53-6	233-331-6	
	158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	
	159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	
	160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	
	161	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)	-	-	
14th 15/06/2015	-	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl	-	-	
	162	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1	272-013-1	
	163	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5	271-094-0	
	-	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-	-	-	
	-	5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-	
	-	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-	
15th 17/12/2015	164	1,3-propanesultone	1120-71-4	214-317-9	
	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	
	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	
	167	Nitrobenzene	98-95-3	202-716-0	
	-	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	-	
	-	Ammonium salts of perfluorononan-1-oic-acid	-, 4149-60-4	-	
	168	Perfluorononan-1-oic-acid	375-95-1	206-801-3	
	-	Sodium salts of perfluorononan-1-oic-acid	-, 21049-39-	-	
16th 20/06/2016	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	
17th 12/01/2017	170	4,4'-isopropylidenediphenol	80-05-7	201-245-8	
	171	4-heptylphenol, branched and linear	-	-	
	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	-	
	173	Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3	-	
	-	Nonadecafluorodecanoic acid	335-76-2	206-400-3	
	-	Ammonium nonadecafluorodecanoate	3108-42-7	221-470-5	
	-	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	
18th 07/07/2017	174	Perfluorohexane-1-sulphonic acid and its salts	-	-	
19th 15/01/2018	175	Chrysene	218-01-9	205-923-4	
	176	Benz[a]anthracene	56-55-3	200-280-6	
	177	Cadmium nitrate	10325-94-7	233-710-6	
	178	Cadmium hydroxide	21041-95-2	244-168-5	
	179	Cadmium carbonate	513-78-0	208-168-9	
	180	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) <i>with ≥ 0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)</i>	-	-	
	181	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™) <i>covering any of its individual anti- and syn-isomers or any combination thereof</i>	-	-	
	20th 27/06/2018	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	209-008-0
		183	Benzo[ghi]perylene	191-24-2	205-883-8
184		Decamethylcyclopentasiloxane	541-02-6	208-764-9	
185		Dicyclohexyl phthalate	84-61-7	201-545-9	
186		Disodium octaborate	12008-41-2	234-541-0	
187		Dodecamethylcyclohexasiloxane	540-97-6	208-762-8	
188		Ethylenediamine	107-15-3	203-468-6	
189		Lead	7439-92-1	231-100-4	
190		Octamethylcyclotetrasiloxane	556-67-2	209-136-7	

	191	Terphenyl, hydrogenated	61788-32-7	262-967-7
21th 15/01/2019	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9
	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1
	194	Benzo[k]fluoranthene	207-08-9	205-916-6
	195	Fluoranthene	206-44-0 93951-69-0	205-912-4
	196	Phenanthrene	85-01-8	201-581-5
	197	Pyrene	129-00-0 1718-52-1	204-927-3
	22th 16/07/2019	198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-
199		4-tert-butylphenol	98-54-4	202-679-0
200		2-methoxyethyl acetate	110-49-6	203-772-9
201		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides <i>covering any of their individual isomers and combinations thereof</i>	-	-
23th 16/01/2020	202	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-
	203	Diisohexyl phthalate	71850-09-4	276-090-2
	204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
	205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-	404-360-3
24th 25/06/2020	206	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4
	207	butyl 4-hydroxybenzoate	202-318-7	94-26-8
	208	2-methylimidazole	211-765-7	693-98-1
	209	1-vinylimidazole	214-012-0	1072-63-5
25th 19/01/2021	210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7
	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety dioctyltin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. Stannane, dioctyl-, bis(coco acyloxy) derivs. Dioctyltin dilaurate	-	-
			91648-39-4 3648-18-8	293-901-5 222-883-3

Certified by :



Jeon Gyeong Jun  
Director of System Quality  
January 20<sup>th</sup> 2021