FORMOSA CHEMICALS & FIBRE CORP.

201, Tung Hwa N. Road Taipei, Taiwan, R.O.C.

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Certificate of Product Safety

Dear Sirs：

We hereby certify that the following resin produced by Formosa Chemicals & Fibre Corporation listed below:

TAIRILAC ABS AG1000, AG12A0, AG12A1, AG12A1-H, AG12A3, AG12AJ, AG15A0, AG15A1, AG15A1-H, AG15A2, AG15A3, AG15A5, AG15A6, AG15AB, AG15AJ, AG15AM, AG15E0, AG15E1, AG15E1-H, AG15E3, AF3500, AF3535, AF3538B, AF3560, AF3600, AX4000, AX4100, AX4300, AG22AT, AG23AT, AG26AT, AG27AT, AT5500, AT5800, AG10NP, AG10AP, AE8000, AE8200, AH2003, ANC100, ANC120, ANC160, ANC180

TAIRILAC ASA WG1700, WG1800, WF3300, WF3301, WE8100, WE810P, WE8500

TAIRISAN SAN NF2100, NF2200, NF2200AE, NX3200, NX3400,

TAIRIREX PS GP5000, GP5250, GP525N, GP5350, GP535A, GP535N, GP535N-1M, GP5500,GP5500-1M, GP5500-1Y, GP550N, GP550N-1Y, MP6500, HP8250, HP825F, HP825H, HP9450,
GP535P, GP560N, HP825G, HP825T, HP825S, HP825N

TAIRILOY PC/ABS AC2000, AC2100, AC2108, AC2300, AC2400, AC2500, AC2508, AC3100, AC3100AF, AC3108, AC3250

TAIRILITE PC AC2820, AC3600, AC3610, AC3700, AC3710, AC3800, AC3900, AC285(X), AC291(X), AC293(X), AC294(X), AC295(X), AC383(X), AC385(X), AC386(X), AC387(X), AC6000, AC913(X), AC914(X)

conforms to the requirement that no chemicals as following are added (<1,000 ppm) .

The SVHC List of 1st (released by ECHA on 28 Oct. 2008)

	REACH SVHC	CAS Number
1	Anthracene	120-12-7
2	4,4'-Diaminodiphenylmethane	101-77-9
3	Dibutyl phthalate	84-74-2
4	Cobalt dichloride	7646-79-9
5	Diarsenic pentaoxide	1303-28-2
6	Diarsenic trioxide	1327-53-3
7	Sodium dichromate	7789-12-0 10588-01-9
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2

	REACH SVHC	CAS Number
9	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7
10	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 134237-51-7 134237-50-6 134237-52-8
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
12	Bis(tributyltin)oxide	56-35-9
13	Lead hydrogen arsenate	7784-40-9
14	Triethyl arsenate	15606-95-8
15	Benzyl butyl phthalate	85-68-7

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The SVHC List of 2nd (released by ECHA on 13 Jan. 2010)

	REACH SVHC	CAS Number
1	Anthracene oil	90640-80-5
2	Anthracene oil, anthracene paste, distn. lights	91995-17-4
3	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
4	Anthracene oil, anthracene-low	90640-82-7
5	Anthracene oil, anthracene paste	90640-81-6
6	Coal tar pitch, high temperature	65996-93-2
7	Acrylamide	79-06-1

	REACH SVHC	CAS Number
8	2,4-Dinitrotoluene	121-14-2
9	Diisobutyl phthalate	84-69-5
10	Lead chromate	7758-97-6
11	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8
12	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
13	Tris(2-chloroethyl)phosphate	115-96-8

The SVHC List of 3rd (released by ECHA on 18 Jun.2010)

	REACH SVHC	CAS Number
1	Trichloroethylene	79-01-6
2	Boric acid	10043-35-3; 11113-50-14
3	Disodium tetraborate, anhydrous	1330-43-4; 12179-04-3; 1303-96-4
4	Tetraboron disodium heptaoxide, hydrate	12267-73-1

	REACH SVHC	CAS Number
5	Sodium chromate	7775-11-3
6	Potassium chromate	7789-00-6
7	Ammonium dichromate	7789-09-5
8	Potassium dichromate	7778-50-9

The SVHC List of 4th (released by ECHA on 15 Dec.2010)

	REACH SVHC	CAS Number
1	Cobalt sulfate	10124-43-3
2	Cobalt dinitrate	10141-05-6
3	Cobalt carbonate	513-79-1
4	Cobalt diacetate	71-48-7

	REACH SVHC	CAS Number
5	2-Methoxyethanol	109-86-4
6	2-Ethoxyethanol	110-80-5
7	Chromium trioxide	1333-82-0
8	Chromic acid; Dichromic acid	7738-94-5; 13530-68-2

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The SVHC List of 5th (released by ECHA on 20 Jun.2011)

	REACH SVHC	CAS Number
1	2-ethoxyethyl acetate	111-15-9
2	strontium chromate	7789-06-2
3	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4
4	Hydrazine	7803-57-8; 302-01-2

	REACH SVHC	CAS Number
5	1-methyl-2-pyrrolidone	872-50-4
6	1,2,3-trichloropropane	96-18-4
7	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6

The SVHC List of 6th (released by ECHA on 19 Dec.2011)

	REACH SVHC	CAS Number
1	Dichromium tris(chromate)	24613-89-6
2	Potassium hydroxyoctaoxodizincatedi-chromate	11103-86-9
3	Pentazinc chromate octahydroxide	49663-84-5

	REACH SVHC	CAS Number
4	Bis(2-methoxyethyl) ether	111-96-6
5	Arsenic acid	7778-39-4
6	Calcium arsenate	7778-44-1

7	Aluminosilicate Refractory Ceramic Fibres (RCF)*1	-
8	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)*2	-
9	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
10	Bis(2-methoxyethyl) phthalate	117-82-8
11	2-Methoxyaniline; o-Anisidine	90-04-0
12	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9
13	1,2-Dichloroethane	107-06-2

14	Trilead diarsenate	3687-31-8
15	N,N-dimethylacetamide (DMAC)	127-19-5
16	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4
17	Phenolphthalein	77-09-8
18	Lead azide Lead diazide	13424-46-9
19	Lead styphnate	15245-44-0
20	Lead dipicrate	6477-64-1

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The SVHC List of 7th (released by ECHA on 18 June. 2012)

	REACH SVHC	CAS Number
1	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
2	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
3	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1
4	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
5	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9
6	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5
7	Diboron trioxide	1303-86-2

	REACH SVHC	CAS Number
8	Formamide	75-12-7
9	Lead(II) bis(methanesulfonate)	17570-76-2
10	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
11	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9
12	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0
13	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6

The Candidate SVHC List of 8th (released by ECHA on 19 Dec. 2012)

	REACH SVHC	CAS Number
1	Bis(pentabromophenyl)ether(DecaBDE)	1163-19-5
2	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	-
3	Diazene-1,2-dicarboxamide(C, C'-azodi(formamide))	123-77-3
4	4-(1,1,3,3-tetramethylbuty)phenol, ethoxylated-covering well-defined substances and UVCB substances, polymers and homologues	-
5	Henicosafluoroundecanoic acid	2058-94-8
6	Pentacosafluorotridecanoic acid	72629-94-8

	REACH SVHC	CAS Number
7	Acetic acid, lead salt, basic	51404-69-4
8	Dimethyl sulphate	77-78-1
9	Furan	110-00-9
10	Pyrochlore, antimony lead yellow	8012-00-8
11	Tetraethyllead	78-00-2
12	[Phthalato(2-)]dioxotrilead	69011-06-9

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13	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7
14	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9,
15	Heptacosafluorotetradecanoic acid	376-06-7
16	Diisopentylphthalate	605-50-5
17	1,2-Benzenedicarboxylicacid,dipentylester,branched and linear	84777-06-0
18	N-pentyl-isopentylphtalate	776297-69-9
19	Methoxy acetic acid	625-45-6
20	Tricosafluorododecanoic acid	307-55-1
21	1,2-Diethoxyethane	629-14-1
22	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
23	4-methyl-m-phenylenediamine(2,4-toluene-diamine)	95-80-7
24	N-methylacetamide	79-16-3
25	Pentaleadtetraoxidesulphate	12065-90-6
26	Biphenyl-4-ylamine	92-67-1
27	Dinoseb	88-85-7
28	Dioxobis(stearato)trilead	12578-12-0
29	Lead dinitrate	10099-74-8
30	Tetralead trioxide sulphate	12202-17-4
31	Lead oxide(lead monoxide)	1317-36-8

32	Diethyl sulphate	64-67-5
33	Lead cynamidate	20837-86-9
34	Silicic acid, barium salt,lead-doped	68784-75-8
35	Trilead dioxide phosphonate	12141-20-7
36	o-Toluidine; 2-Aminotoluene	95-53-4
37	o-aminoazotoluene	97-56-3
38	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3
39	6-methoxy-m-toluidine(p-cresidine)	120-71-8
40	Dibutyltin dichloride(DBT)	683-18-1
41	Lead Titanium Zirconium Oxide	12626-81-2
42	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9
43	1-bromopropane	106-94-5
44	Basiclead carbonate(trileadbis(carbonate) dihydroxide)	1319-46-6
45	Fatty acids, C16-18, lead salts	91031-62-8
46	Lead tetroxide(orange lead)	1314-41-6
47	Sulfurous acid, lead salt, dibasic	62229-08-7
48	4,4'-oxydianiline and its salts	101-80-4
49	Lead oxide sulphate	12036-76-9
50	Lead bis(tetrafluoroborate)	13814-96-6

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51	Lead titanium trioxide	12060-00-3
52	4,4' –methylenedi-o-toluidine	838-88-0

53	Silicic acid, lead salt	11120-22-2
54	N,N-dimethylformamide; dimethyl formamide	68-12-2

The SVHC List of 9th (released by ECHA on 20 June 2013)

	REACH SVHC	CAS Number
1	Cadmium	7440-43-9
2	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
3	Pentadecafluorooctanoic acid (PFOA)	335-67-1

	REACH SVHC	CAS Number
4	Dipentyl phthalate (DPP)	131-18-0
5	4-Nonylphenol, branched and linear, ethoxylated	--
6	Cadmium oxide	1306-19-0

The SVHC List of 10th (released by ECHA on 16 Dec. 2013)

	REACH SVHC	CAS Number
1	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
2	Dihexyl phthalate	84-75-3
3	Cadmium sulphide	1306-23-6

	REACH SVHC	CAS Number
4	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
5	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7
6	Lead di(acetate)	301-04-2
7	Trixylyl phosphate	25155-23-1

The SVHC List of 11th (released by ECHA on 16 June 2014)

	REACH SVHC	CAS Number
1	Cadmium chloride	10108-64-2
2	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4

	REACH SVHC	CAS Number
3	Sodium peroxometaborate	7632-04-4
4	Sodium perborate; perboric acid, sodium salt	--

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The SVHC List of 12th (released by ECHA on 17 Dec. 2014)

	REACH SVHC	CAS Number		REACH SVHC	CAS Number
1	Cadmium fluoride	7790-79-6	4	Cadmium sulphate	10124-36-4; 31119-53-6
2	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	5	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
3	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	6	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)	--

The SVHC List of 13th (released by ECHA on 15 June 2015)

	REACH SVHC	CAS Number		REACH SVHC	CAS Number
1	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	2	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]	--

The SVHC List of 14th (released by ECHA on 17 Dec. 2015)

	REACH SVHC	CAS Number		REACH SVHC	CAS Number
1	1,3-propanesultone	1120-71-4	4	Nitrobenzene	98-95-3
2	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	5	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
3	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4			

The SVHC List of 15th (released by ECHA on 20 June 2016)

	REACH SVHC	CAS Number
1	Benzo[def]chrysene	50-32-8

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The SVHC List of 16th (released by ECHA on 12 Jan. 2017)

	REACH SVHC	CAS Number
1	4,4'-isopropylidenediphenol	80-05-7
2	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt	335-76-2 3108-42-7 3830-45-3
3	4-Heptylphenol, branched and linear	--
4	p-(1,1-dimethylpropyl)phenol	80-46-6

The SVHC List of 17th (released by ECHA on 7 July 2017)

	REACH SVHC	CAS Number
1	Perfluorohexane-1-sulphonic acid and its salts	--

Sincerely Yours,

C C Chen

C. C. Chen

Department Manager

Plastics Division

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