



致(To): 僑隆實業股份有限公司
 CHARM LORD ENTERPRISE CO., LTD.

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「有害物質」化學成分證明書

Hazardous Substances Chemical Contents Declaration & Warranty

本公司供應貴公司之下列產品，其有害物質含有量，經分析、確認，保證如下表所示。
 We hereby declare that the hazardous substances and their contents in the captioned product are shown as below.

產品名稱(Product Name):

棒鋼、線材(Bar & Rod)

I. RoHs					
項次 Item No.	有害物質名稱/ Substance Name	CAS 編碼 CAS No.	測試方法 Test Method	極限值 MDL/RL (ppm)	濃度 Content (ppm)
1	鎘/Cadmium (Cd)	7440-43-9	IEC 62321-5:2013	2	N.D.
2	鉛/Lead (Pb)	7439-92-1	IEC 62321-5:2013	2	<90
3	汞/Mercury (Hg)	7439-97-6	IEC 62321-4:2013	2	N.D.
4	六價鉻/ Hexavalent Chromium compounds.(Cr ⁺⁶)	-	IEC 62321-4:2008	0.02	N.D.
5	多溴聯苯/ Polybrominated Biphenyls(PBB)	-	IEC 62321-4:2015	5	N.D.
6	多溴聯苯醚/ Polybrominated Diphenyl Ethers (PBDE)	-	IEC 62321-4:2015	5	N.D.
7	鄰苯二甲酸二(2-乙基己基)酯 / Di- (2-ethylhexyl) phthalate (DEHP)	117-81-7	IEC 62321-8 (111/321/CD)	50	N.D.
8	鄰苯二甲酸丁酯苯甲酯/ Butyl Benzyl phthalate (BBP)	85-68-7	IEC 62321-8 (111/321/CD)	50	N.D.
9	鄰苯二甲酸二丁酯/ Dibutyl phthalate (DBP)	84-74-2	IEC 62321-8 (111/321/CD)	50	N.D.
10	鄰苯二甲酸二異丁酯 / Di-isobutyl phthalate (DIBP)	84-69-5	IEC 62321-8 (111/321/CD)	50	N.D.
II. REACH					
項次 Item No.	有害物質名稱/ Substance Name	CAS 編碼 CAS No.	測試方法 Test Method	極限值 MDL/RL (ppm)	濃度 Content (ppm)
1	蒽/ Anthracene	120-12-7	SGS in house	500	N.D.
2	4,4'-二氨基二苯甲烷 /4,4'-Diaminodiphenylmethane	101-77-9	SGS in house	500	N.D.
3	重鉻酸鈉二水合物/ Sodium dichromate	7789-12-0 010588-01-9	SGS in house	-	N.D.
4	氯化鈷/ Cobalt dichloride	7646-79-9	SGS in house	50	N.D.
5	五氧化二砷/ Diarsenic pentaoxide	1303-28-2	SGS in house	-	N.D.



項次 Item No.	有害物質名稱/ Substance Name	CAS 編碼 CAS No.	測試方法 Test Method	極限值 MDL/RL (ppm)	濃度 Content (ppm)
6	2,4,6-三硝基-5-叔丁基間二甲苯(二甲苯麝香)/ 5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	SGS in house	500	N.D.
7	鄰苯二甲酸二丁酯/ Dibutyl Phthalate (DBP)	84-74-2	SGS in house	500	N.D.
8	鄰苯二甲酸二(2-乙基己基)酯/ Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	SGS in house	500	N.D.
9	鄰苯二甲酸甲苯基丁酯/ Benzyl butyl phthalate (BBP)	85-68-7	SGS in house	500	N.D.
10	六溴環十二烷/ Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6	SGS in house	500	N.D.
11	短鏈氯化石蜡(10-13)/ Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCPs)	85535-84-8	SGS in house	500	N.D.
12	氧化双三丁基錫/ Bis(tributyltin) oxide (TBTO)	56-35-9	SGS in house	-	N.D.
13	砷酸氫鉛/ Lead hydrogen arsenate	7784-40-9	SGS in house	-	N.D.
14	三乙基砷酸酯/ Triethyl arsenate	15606-95-8	SGS in house	-	N.D.
15	三氧化二砷/ Diarsenic trioxide	1327-53-3	SGS in house	-	N.D.
16	蒽油/ Anthracene oil	90640-80-5	SGS in house	500	N.D.
17	蒽油，蒽糊，輕油/ Anthracene oil, anthracene paste, distn. Lights	91995-17-4	SGS in house	500	N.D.
18	蒽油，蒽糊，蒽餾分/ Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	SGS in house	500	N.D.
19	蒽油，含蒽量少/ Anthracene oil, anthracene-low	90640-82-7	SGS in house	500	N.D.
20	蒽油，蒽糊/ Anathracene oil, anthracene paste	90640-81-6	SGS in house	500	N.D.
21	煤瀝青，高溫/ Pitch, coal tar, high temperature	65996-93-2	SGS in house	500	N.D.
22	丙烯醯胺/ Acrylamide	79-06-1	SGS in house	500	N.D.
23	矽酸鋁，耐火陶瓷纖維/ Aluminosilicate, refractory Ceramic Fibres	-	SGS in house	500	N.D.
24	鋁矽酸鋁，耐火陶瓷纖維/ Zirconia Aluminosilicate, Refractory Ceramic Fibres	-	SGS in house	500	N.D.
25	2,4-二硝基甲苯/2,4-Dinitrotolune	121-14-2	SGS in house	500	N.D.
26	鄰苯二甲酸二異丁酯/ Diisobutyl phthalate	84-69-5	SGS in house	500	N.D.
27	鉻酸鉛/ Lead chromate	7758-97-6	SGS in house	100	N.D.
28	紅色鉬鉻酸鉛硫酸鹽；顏色索引：顏料紅 104/ Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	SGS in house	100	N.D.
29	黃色硫化鉻酸鉛；顏色索引：顏料黃 34/ Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	SGS in house	100	N.D.
30	磷酸三(2-氯乙基)酯/ Tris(2-chloroethyl)phosphate	115-96-8	SGS in house	500	N.D.
31	鉻酸鈉/Sodium chromate	7775-11-3	SGS in house	-	N.D.
32	重鉻酸銨/Ammonium dichromate	7789-09-5	SGS in house	-	N.D.



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33	重鉻酸鉀/ Potassium dichromate	7778-50-9	SGS in house	-	N.D.
34	鉻酸鉀/ Potassium chromate	7789-00-6	SGS in house	-	N.D.
35	硼酸 /Boric acid	10043-35-3 11113-50-1	SGS in house	-	N.D.
36	無水四硼酸二鈉/ disodium tetraborate, anhydrous	1330-43-4 1303-96-4 12179-04-3	SGS in house	-	N.D.
37	水合硼酸鈉/ Tetraboron disodium heptaoxide, hydrate	12267-73-1	SGS in house	-	N.D.
38	三氯乙烯/Trichloroethylene	79-01-6	SGS in house	500	N.D.
39	硫酸鈷(二價)/ Cobalt(II) sulphate	10124-43-3	SGS in house	-	N.D.
40	硝酸鈷(二價)/ Cobalt(II) dinitrate	10141-05-6	SGS in house	-	N.D.
41	碳酸鈷(二價)/ Cobalt(II) carbonate	513-79-1	SGS in house	-	N.D.
42	醋酸鈷(二價)/ Cobalt(II) diacetate	71-48-7	SGS in house	-	N.D.
43	乙二醇甲醚 /2-Methoxyethanol	109-86-4	SGS in house	500	N.D.
44	乙二醇乙醚 2-Ethoxyethanol	110-80-5	SGS in house	500	N.D.
45	三氧化鉻 /Chromium trioxide	1333-82-0	SGS in house	-	N.D.
46	從三氧化鉻與其它寡聚體生成的酸類：鉻酸， 重鉻酸，鉻酸與重鉻酸的寡聚體 Acids generated from chromium trioxide and their oligomers:Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	SGS in house	-	N.D.
47	乙二醇乙醚乙酸酯/2-ethoxyethyl acetate	111-15-9	SGS in house	500	N.D.
48	鉻酸鋇/strontium chromate	7789-06-2	SGS in house	-	N.D.
49	鄰苯二甲酸二(C7-11 支鏈與直鏈)烷基酯 (1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters)	68515-42-4	SGS in house	500	N.D.
50	聯氨/Hydrazine	7803-57-8; 302-01-2	SGS in house	500	N.D.
51	N-甲基吡咯烷酮/1-methyl-2-pyrrolidone	872-50-4	SGS in house	500	N.D.
52	1,2,3-三氯丙烷/1,2,3-trichloropropane	96-18-4	SGS in house	500	N.D.
53	鄰苯二甲酸二(C6-8 支鏈與直鏈)烷基酯，富 C7 (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich)	71888-89-6	SGS in house	500	N.D.
54	鉻酸鉻/Dichromium tris(chromate)	24613-89-6	SGS in house	-	N.D.
55	氫氧化鉻酸鋅鉀 Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	SGS in house	-	N.D.
56	八氫氧化五鉻酸鋅 Pentazinc chromate octahydroxide	49663-84-5	SGS in house	-	N.D.
57	甲醛與苯胺的寡聚反應物 Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	SGS in house	500	N.D.



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58	鄰苯二甲酸雙(2-甲氧基乙基)酯 Bis(2-methoxyethyl) phthalate	117-82-8	SGS in house	500	N.D.
59	鄰甲氧基苯胺/ 2-Methoxyaniline; o-Anisidine	90-04-0	SGS in house	500	N.D.
60	對特辛基苯酚/辛基酚 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	SGS in house	500	N.D.
61	1,2-二氯乙烷/1,2-Dichloroethane	107-06-2	SGS in house	500	N.D.
62	雙(2-甲氧基乙基)醚/ Bis(2-methoxyethyl) ether	111-96-6	SGS in house	500	N.D.
63	砷酸/ Arsenic acid	7778-39-4	SGS in house	-	N.D.
64	砷酸鈣/ Calcium arsenate	7778-44-1	SGS in house	-	N.D.
65	砷酸鉛/ Trilead diarsenate	3687-31-8	SGS in house	-	N.D.
66	N,N-二甲基乙醯胺/ N,N-dimethylacetamide (DMAC)	127-19-5	SGS in house	500	N.D.
67	2,2'-二氯-4,4'-二氨基二苯基甲烷/ 2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	SGS in house	500	N.D.
68	酚酞/Phenolphthalein	77-09-8	SGS in house	500	N.D.
69	疊氮化鉛/Lead diazide, Lead azide	13424-46-9	SGS in house	-	N.D.
70	中性斯蒂酚酸鉛/Lead styphnate	15245-44-0	SGS in house	-	N.D.
71	苦味酸鉛/Lead dipicrate	6477-64-1	SGS in house	-	N.D.
72	三甘醇二甲醚/ 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	SGS in house	500	N.D.
73	乙二醇二甲醚/ 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	SGS in house	500	N.D.
74	三氧化二硼/ Diboron trioxide	1303-86-2	SGS in house	-	N.D.
75	甲醯胺/ Formamide	75-12-7	SGS in house	500	N.D.
76	甲基磺酸鉛/Lead(II) bis(methanesulfonate)	17570-76-2	SGS in house	-	N.D.
77	異氰尿酸三縮水甘油酯/ TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	SGS in house	500	N.D.
78	異氰尿酸 β-三縮水甘油酯/ 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	SGS in house	500	N.D.
79	4,4'-二(N,N-二甲氨基)二苯甲酮(米氏酮) / 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	SGS in house	500	N.D.
80	4,4'-(對二甲氨基)二苯基甲烷(米氏鹼) / N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	SGS in house	500	N.D.



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81	鹼性紫 3/ [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	SGS in house	500	N.D.
82	鹼性藍 26/ [4-[[4-anilino-1-naphthyl][4-(dimethylamino)ph enyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	SGS in house	500	N.D.
83	溶劑藍 4 α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	SGS in house	500	N.D.
84	α,α -二[(二甲氨基)苯基]-4-氨基苯甲醇 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	SGS in house	500	N.D.
85	十溴聯苯醚 Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	SGS in house	500	N.D.
86	全氟十三酸 Pentacosaflluorotridecanoic acid	72629-94-8	SGS in house	500	N.D.
87	全氟十二酸 Tricosaflluorododecanoic acid	307-55-1	SGS in house	500	N.D.
88	全氟十一酸 Henicosaflluoroundecanoic acid	2058-94-8	SGS in house	500	N.D.
89	全氟十四酸 Heptacosaflluorotetradecanoic acid	376-06-7	SGS in house	500	N.D.
90	4-(1,1,3,3-四甲基丁基)苯酚, 乙氧基- 以及所 有的被定義的物質, 未知成分或可變成分的物 質, 聚合物和同系物 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues		SGS in house	500	N.D.
91	分支或線性的壬基酚, 包括含有9個碳烷基鏈 的所有獨立的同分異構體和所有含有線性或 分支9個碳烷基鏈的UVCB物質 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		SGS in house	500	N.D.
92	偶氮[二]甲醯胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	SGS in house	500	N.D.
93	六氫苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, transcyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7, 13149-00-3, 14166-21-3	SGS in house	500	N.D.



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94	甲基六氫苯酐 Hexahydromethylphthalic anhydride,	25550-51-0	SGS in house	500	N.D.
	4-甲基六氫苯酐 Hexahydro-4-methylphthalic anhydride	19438-60-9	SGS in house	500	N.D.
	1-甲基六氫苯酐 Hexahydro-1-methylphthalic anhydride	48122-14-1	SGS in house	500	N.D.
	3-甲基六氫苯酐 Hexahydro-3-methylphthalic anhydride	57110-29-9	SGS in house	500	N.D.
95	甲氧基乙酸 Methoxy acetic acid	625-45-6	SGS in house	500	N.D.
96	支鏈和直鏈1,2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	SGS in house	500	N.D.
97	鄰苯二甲酸二異戊酯 Diisopentylphthalate	605-50-5	SGS in house	500	N.D.
98	鄰苯二甲酸正戊基異戊基酯 N-pentyl-isopentylphthalate	776297-69-9	SGS in house	500	N.D.
99	乙二醇二乙醚 1,2-Diethoxyethane	629-14-1	SGS in house	500	N.D.
100	N,N-二甲基甲醯胺 N,N-dimethylformamide; dimethyl formamide	68-12-2	SGS in house	500	N.D.
101	二氯二丁基錫 Dibutyltin dichloride (DBTC)	683-18-1	SGS in house	500	N.D.
102	城式醋酸鉛 Acetic acid, lead salt, basic	51404-69-4	SGS in house	-	N.D.
103	城式碳酸鉛 Trilead bis(carbonate)dihydroxide (basic lead carbonate)	1319-46-6	SGS in house	-	N.D.
104	城式硫酸鉛 Lead oxide sulfate	12036-76-9	SGS in house	-	N.D.
105	[1,2-苯二羧酸根合]三氧化二鉛 [Phthalato(2-)]dioxotrilead	69011-06-9	SGS in house	-	N.D.
106	雙(十八酸基)二氧代三鉛 Dioxobis(stearato)trilead	12578-12-0	SGS in house	-	N.D.
107	C16-18-脂肪酸鉛鹽 Fatty acids, C16-18, lead salts	91031-62-8	SGS in house	-	N.D.
108	氰基氰鉛鹽 Lead cyanamidate	20837-86-9	SGS in house	-	N.D.
109	硝酸鉛 Lead dinitrate	10099-74-8	SGS in house	-	N.D.
110	氧化鉛 Lead oxide (lead monoxide)	1317-36-8	SGS in house	-	N.D.
111	四氧化鉛 Lead tetroxide (orange lead)	1314-41-6	SGS in house	-	N.D.
112	氧化鉛與硫酸鉛的複合物 Pentalead tetraoxide sulphate	12065-90-6	SGS in house	-	N.D.
113	矽酸鉛 Silicic acid, lead salt	11120-22-2	SGS in house	-	N.D.
114	亞硫酸鉛 (II) Sulfurous acid, lead salt, dibasic	62229-08-7	SGS in house	-	N.D.



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115	四乙基鉛 Tetraethyllead	78-00-2	SGS in house	-	N.D.
116	三鹼式硫酸鉛/ C.I. 顏料白 Tetralead trioxide sulphate	12202-17-4	SGS in house	-	N.D.
117	四氟硼酸鉛(II) Lead bis(tetrafluoroborate)	13814-96-5	SGS in house	-	N.D.
118	鈦酸鉛 Lead titanium trioxide	12060-00-3	SGS in house	-	N.D.
119	鈦酸鉛鋯 Lead Titanium Zirconium Oxide	12626-81-2	SGS in house	-	N.D.
120	C.I.顏料黃41 Pyrochlore, antimony lead yellow	8012-00-8	SGS in house	-	N.D.
121	磷酸氧化鉛 Trilead dioxide phosphonate	12141-20-7	SGS in house	-	N.D.
122	含鉛的矽酸鋇 Silicic acid, barium salt, lead-doped	68784-75-8	SGS in house	-	N.D.
123	呋喃 Furan	110-00-9	SGS in house	500	N.D.
124	環氧丙烷 Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	SGS in house	500	N.D.
125	硫酸二乙酯 Diethyl sulphate	64-67-5	SGS in house	500	N.D.
126	硫酸二甲酯 Dimethyl sulphate	77-78-1	SGS in house	500	N.D.
127	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-惡唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	SGS in house	500	N.D.
128	2-(1-甲基丙基)-4,6-二硝基苯酚 Dinoseb	88-85-7	SGS in house	500	N.D.
129	4,4'-二氨基-3,3'-二甲基聯苯基甲烷 4,4'-methylenedi-o-toluidine	838-88-0	SGS in house	500	N.D.
130	4,4'-二氨基二苯醚 4,4'-oxydianiline and its salts	101-80-4	SGS in house	500	N.D.
131	4-苯基偶氮基苯胺 4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	SGS in house	500	N.D.
132	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (2,4-toluenediamine)	95-80-7	SGS in house	500	N.D.
133	3-甲基-6-甲氧基苯胺 6-methoxy-m-toluidine (p-cresidine)	120-71-8	SGS in house	500	N.D.
134	4-胺基聯苯 Biphenyl-4-ylamine	92-67-1	SGS in house	500	N.D.
135	鄰氨基偶氮甲苯 o-aminoazotoluene	97-56-3	SGS in house	500	N.D.
136	鄰甲苯胺 o-Toluidine; 2-Aminotoluene	95-53-4	SGS in house	500	N.D.



項次 Item No.	有害物質名稱/ Substance Name	CAS 編碼 CAS No.	測試方法 Test Method	極限值 MDL/RL (ppm)	濃度 Content (ppm)
137	N-甲基乙醯胺 N-methylacetamide	79-16-3	SGS in house	500	N.D.
138	正丙基溴 1-bromopropane	106-94-5	SGS in house	500	N.D.
139	全氟辛酸 Pentadecafluorooctanoic acid(PFOA)	335-67-1	SGS in house	500	N.D.
140	全氟辛酸銨 Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	SGS in house	500	N.D.
141	氧化鎘 Cadmium oxide	1306-19-0	SGS in house	-	N.D.
142	鎘 Cadmium (Cd)	7440-43-9	SGS in house	50	N.D.
143	鄰苯二甲酸二戊酯 Dipentyl phthalate (DPP)	131-18-0	SGS in house	500	N.D.
144	分支或線性的乙氧基壬基酚，包括含有 9 個碳 烷基鏈的所有獨立的同分異構體和所有含有 線性或分支 9 個碳烷基鏈的 UVCB 物質。 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]	-	SGS in house	500	N.D.
145	鄰苯二甲酸二己酯 Dihexyl phthalate	84-75-3	SGS in house	500	N.D.
146	直接紅 28 Disodium 3,3'-[[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-amin onaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	SGS in house	500	N.D.
147	直接黑 38 disodium 4-amino-3-((4'-((2,4-diaminophenyl)az o)(1,1'-biphenyl)-4-yl)-azo)-5-hydroxy-6-(phen ylazo)naphthalene-2,7-disulphonate(C.I. Direct Black 38)	1937-37-7	SGS in house	500	N.D.
148	亞乙基硫脲 Imidazolidine-2-thione; 2-Imidazoline-2-thiol	96-45-7	SGS in house	500	N.D.
149	磷酸三(二甲苯)酯 Trixylyl phosphate	25155-23-1	SGS in house	500	N.D.
150	硫化鎘 Cadmium sulfide	1306-23-6	SGS in house	-	N.D.
151	醋酸鉛 Lead di(acetate)	301-04-2	SGS in house	-	N.D.
152	鄰苯二甲酸二己酯(直鏈和支鏈) 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	SGS in house	500	N.D.
153	氯化鎘 Cadmium chloride	10108-64-2	SGS in house	-	N.D.



項次 Item No.	有害物質名稱/ Substance Name	CAS 編碼 CAS No.	測試方法 Test Method	極限值 MDL/RL (ppm)	濃度 Content (ppm)
154	過硼酸鈉 Sodium perborate, perboric acid, sodium salt	10486-00-7	SGS in house	-	N.D.
155	過氧偏硼酸鈉 Sodium peroxometaborate	7632-04-4	SGS in house	-	N.D.
156	氟化鎘 Cadmium fluoride	7790-79-6	SGS in house	-	N.D.
157	硫酸鎘 Cadmium sulphate	10124-36-4, 31119-53-6	SGS in house	-	N.D.
158	2-[2-羥基-3',5'-二-叔-丁基苯基]-苯並三唑 (紫外線吸收劑320) 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	SGS in house	500	N.D.
159	2-(2'-羥基-3',5'-二-叔-戊基苯基)苯並三唑 (紫外線吸收劑328) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	SGS in house	500	N.D.
160	二正辛基-双(2-乙基己基巰基乙酸酯)錫 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-st annatetradecanoate (DOTE)	15571-58-1	SGS in house	-	N.D.
161	二正辛基-双(2-乙基己基巰基乙酸酯)錫和單 辛基-三(2-乙基己基巰基乙酸酯)錫的反應物 reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-st annatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]t hio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatet radecanoate (reaction mass of DOTE and MOTE)	-	SGS in house	-	N.D.
162	鄰苯二甲酸二(C6-10)烷基酯：鄰苯二甲酸二 己、二辛、二癸酯混合物;鄰苯二甲酸二己酯 ≥0.3% /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	68515-51-5 68648-93-1	SGS in house	500	N.D.
163	5-二級丁基-2-(2,4-二甲基環己-3-烯-1-基)-5- 甲基-1,3-二氧環己烷[1]，5-二級丁基-2-(4,6- 二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己 烷[2] [任何[1]和[2]或者其任意組合的單獨異 構物 或其任何組合) 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]	-	SGS in house	500	N.D.
164	硝基苯/Nitrobenzene	98-95-3	SGS in house	500	N.D.
165	2,4-二叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯 酚(紫外線吸收劑 327) 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)ph enol(UV-327)	3864-99-1	SGS in house	500	N.D.



項次 Item No.	有害物質名稱/ Substance Name	CAS 編碼 CAS No.	測試方法 Test Method	極限值 MDL/RL (ppm)	濃度 Content (ppm)
166	2-(3-仲-丁基-5-叔丁基-2-羥苯基)苯并三唑(紫外線吸收劑 350) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)	36437-37-3	SGS in house	500	N.D.
167	1,3-丙烷磺內酯 1,3-propanesultone	1120-71-4	SGS in house	500	N.D.
168	全氟壬酸 Perfluorononan-1-oic acid(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoiz acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	SGS in house	500	N.D.
169	苯并(a)芘 Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	SGS in house	500	N.D.
170	雙酚 A 4,4'-isopropylidenediphenol (Bisphenol A)	80-05-7	SGS in house	500	N.D.
171	4-庚基苯酚, 支鍊及直鍊, 包括含有 7 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 7 個碳烷基鏈的 UVCB 物質 4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	SGS in house	500	N.D.
172	4-叔丁基苯酚 4-tert-butylphenol	98-54-4	SGS in house	500	N.D.
173	1,2,4-苯三甲酸酐 Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	SGS in house	500	N.D.
174	十九氟癸酸及其鈉和銨鹽 Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	SGS in house	500	N.D.
175	對(1,1-二甲基丙基)苯酚 p-(1,1-dimethylpropyl) phenol	80-46-6	SGS in house	500	N.D.
III. PAHs					
項次 Item No.	有害物質名稱/ Substance Name	CAS 編碼 CAS No.	測試方法 Test Method	極限值 MDL/RL (ppm)	濃度 Content (ppm)
1	苯駢[a]芘 Benzo(a)pyrene	50-32-8	SGS in house	0.2	N.D.
2	萘 Acenaphthene	83-32-9	SGS in house	0.2	N.D.
3	萘烯 Acenaphthylene	208-96-8	SGS in house	0.2	N.D.
4	蒽 Anthracene	120-12-7	SGS in house	0.2	N.D.



項次 Item No.	有害物質名稱/ Substance Name	CAS 編碼 CAS No.	測試方法 Test Method	極限值 MDL/RL (ppm)	濃度 Content (ppm)
5	苯駢[a]蒽 Benz(a)anthracene	56-55-3	SGS in house	0.2	N.D.
6	苯駢芘 Benzo[g,h,i]perylene	191-24-2	SGS in house	0.2	N.D.
7	苯駢芴 Fluoranthene	206-44-0	SGS in house	0.2	N.D.
8	苯(b)苯駢芴 Benzo(b)fluoranthene	205-99-2	SGS in house	0.2	N.D.
9	苯(k)苯駢芴 Benzo(k)fluoranthene	207-08-9	SGS in house	0.2	N.D.
10	屈 Chrysene	218-01-9	SGS in house	0.2	N.D.
11	二苯駢(a,h)蒽 Dibenz(a,h)anthracene	53-70-3	SGS in house	0.2	N.D.
12	次聯苯甲酮(芴) Fluorene	86-73-7	SGS in house	0.2	N.D.
13	節酮芘(多環芳烴) Indeno(1,2,3-cd)pyrene	193-39-5	SGS in house	0.2	N.D.
14	萘 Naphthalene	91-20-3	SGS in house	0.2	N.D.
15	菲 Phenanthrene	85-01-8	SGS in house	0.2	N.D.
16	芘 Pyrene	129-00-0	SGS in house	0.2	N.D.
17	苯駢[e]芘 Benzo(e)pyrene	192-97-2	SGS in house	0.2	N.D.
18	苯(j)苯駢芴(苯駢芴) Benzo(j)fluoranthene	205-82-3	SGS in house	0.2	N.D.

IV. Client's Specific Request

項次 Item No.	有害物質名稱/ Substance Name	CAS 編碼 CAS No.	測試方法 Test Method	極限值 MDL/RL (ppm)	濃度 Content (ppm)
1	環十二烷 Cyclododecane	294-62-2	SGS in house	500	N.D.
2	鈹 Beryllium	7440-41-7	SGS in house	2	N.D.
3	全氟辛烷磺酸 Perfluorooctane sulfonates (PFOS)	1763-23-1	SGS in house	1 (µg/m ²)	N.D.
4	全氟辛酸 Pentadecafluorooctanoic acid(PFOA)	335-67-1	SGS in house	1 (µg/m ²)	N.D.
5	鹵素(氟) Halogen-Fluorine (F)	14762-94-8	SGS in house	50	N.D.
6	鹵素(氯) Halogen-Chlorine (Cl)	22537-15-1	SGS in house	50	N.D.
7	鹵素(溴) Halogen-Bromine (Br)	10097-32-2	SGS in house	50	N.D.
8	鹵素(碘) Halogen-Iodine (I)	14362-44-8	SGS in house	50	N.D.

項次 Item No.	有害物質名稱/ Substance Name	CAS 編碼 CAS No.	測試方法 Test Method	極限值 MDL/RL (ppm)	濃度 Content (ppm)
9	石棉類 Asbestos	77536-66-4 12172-73-5 77536-67-5 12001-29-5 12001-28-4 77536-68-6	SGS in house	-	Negative

註(Remarks):

- 上表中第 I 大項為歐盟 RoHS(2011/65/EU)指令限制禁用之物質，RoHS 指令對鉛、汞、六價鉻、PBB、PBDE、DEHP、BBP、DBP 及 DIBP 之濃度限制為 1000ppm Max.，編為 100ppm Max.。7~10 項為歐盟 RoHS(2011/65/EU) 指令於 2015.06.04 新公告列管之物質。
Item group I are specified as prohibitive substances by RoHS, (2011/65/EU), in which maximum content of Pb、Hg、Cr⁶⁺、PBB、PBDE、DEHP、BBP、DBP 及 DIBP is restricted to 1000ppm respectively, while 100ppm is restricted for cadmium. Item 7-10 are the "Restricted Substances" listed in the European Directive of RoHS regulation 2011/65/EU since Jun.04.2015.
- 上表中第 II 大項為歐盟 REACH 指令管制之物質，其中 175 項為 2016.09.06 新通過項目。REACH 指令對其濃度建議為單一有害物質 1000ppm Max.。
Item group II are specified as prohibitive substances by REACH(Item 175 is listed since Sep.06.2016), in which maximum content of each substance is restricted to 1000ppm.
- 上表中第 III 大項為德國 ZEK 01.4-08 管制之物質。ZEK 01.4-08 對苯駢[e]芘濃度建議為 MDL 或 0.2 ppm Max.，而 18 項 PAHs (Polynuclear Aromatic Hydrocarbons) 總濃度建議為 MDL 或 0.2 ppm Max.。
Item group III are specified as prohibitive substances by ZEK 01.4-08, in which maximum content of Benzo(e)pyrene is restricted to MDL or 0.2ppm, and sum of 18 PAHs is restricted to MDL or 0.2ppm.
- 上表中第 IV 大項是依客戶特定須求分析。
Item group IV are analyzed by client's specific request.
- Note:
MDL: Method Detection Limit
RL: Reporting Limit
N.D.: Not detected
Negative: Asbestos fibers not being found is shown as "Negative"
- 本證明文件僅保證中鋼之產品，客戶加工後所產生之有害物質，不屬於本證明文件保證之範圍。
This is to certify that the steel product of CSC in the as-delivered condition does not contain harmful substances in table, but this does not guarantee that the product will definitely not include those harmful substances after being processed mechanically or chemically.

Tian Yuan Cheng

冶金技術處
冶金規範及試驗組組長
Manager Metallurgical Specification and
Testing Section, Metallurgical Dept