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JUNG YI STEEL CO.,LTD.

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頁次(Page No): 1 of 16



「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	<70
3	汞/Mercury (Hg)	7439-97-6	IEC 62321-4:2017	2	N.D.
4	六價鉻/Hexavalent Chromium compounds.(Cr ⁺⁶)	-	IEC 62321-7:2015	0.1	N.D.
5	多溴聯苯/Polybrominated Biphenyls(PBB)	-	IEC 62321-6:2015	50	N.D.
6	多溴聯苯醚/ Polybrominated Diphenyl Ethers (PBDE)	-	IEC 62321-6:2015	50	N.D.
7	鄰苯二甲酸二(2-乙基己基)酯 / Di- (2-ethylhexyl) phthalate (DEHP)	117-81-7	IEC 62321-8:2017	50	N.D.
8	鄰苯二甲酸丁酯苯甲酯/ Butyl Benzyl phthalate (BBP)	85-68-7	IEC 62321-8:2017	50	N.D.
9	鄰苯二甲酸二丁酯/ Dibutyl phthalate (DBP)	84-74-2	IEC 62321-8:2017	50	N.D.
10	鄰苯二甲酸二異丁酯 / Di-isobutyl phthalate (DIBP)	84-69-5	IEC 62321-8:2017	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.

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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/ Anthracene 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-Dinitrotoluene	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	中性斯蒂酞酸鉛/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-甲氨基苯甲醇 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 Pentacosafuorotridecanoic acid	72629-94-8	SGS in house	500	N.D.
87	全氟十二酸 Tricosafuorododecanoic acid	307-55-1	SGS in house	500	N.D.
88	全氟十一酸 Henicosafuoroundecanoic acid	2058-94-8	SGS in house	500	N.D.
89	全氟十四酸 Heptacosafuorotetradecanoic 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]二氧化三鉛 [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-ditertpentylpheno l (UV-328)	25973-55-1	SGS in house	500	N.D.
160	二正辛基-雙(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-雙(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-stannate tridecanoate (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-heptadecafluorononanoic 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	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.
173	對(1,1-二甲基丙基)苯酚 p-(1,1-dimethylpropyl) phenol	80-46-6	SGS in house	500	N.D.
174	全氟己基磺酸及其鹽類 Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	355-46-4	SGS in house	500	N.D.
175	德克隆(涵蓋各個反式及順式同分異構物或者相關組合) 1,6,7,8,9,14,15,16,17,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus” TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	SGS in house	500	N.D.
176	苯駢[a]蒽 Benz(a)anthracene	56-55-3	SGS in house	500	N.D.
177	硝酸鎘 Cadmium nitrate	10325-94-7	SGS in house	-	N.D.
178	碳酸鎘 Cadmium carbonate	513-78-0	SGS in house	-	N.D.
179	氫氧化鎘 Cadmium hydroxide	21041-95-2	SGS in house	-	N.D.
180	苯並[a]菲 Chrysene	218-01-9	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)
181	1,3,4-噻唑烷-2,5-二硫酮，甲醛及 4-庚基苯酚 支鏈及直鏈反應物，(RP-HP) [含 $\geq 0.1\%$ w/w 支鏈及直鏈 4-庚基苯酚] Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	-	SGS in house	-	N.D.
182	苯並[g,h,i]芘 Benzo[ghi]perylene	191-24-2	SGS in house	500	N.D.
183	八甲基環四矽氧烷 Octamethylcyclotetrasiloxane (D4)	556-67-2	SGS in house	500	N.D.
184	十甲基環五矽氧烷 Decamethylcyclopentasiloxane (D5)	541-02-6	SGS in house	500	N.D.
185	十二甲基環六矽氧烷 Dodecamethylcyclohexasiloxane (D6)	540-97-6	SGS in house	500	N.D.
186	乙二胺 Ethylenediamine(EDA)	107-15-3	SGS in house	500	N.D.
187	鉛 Lead	7439-92-1	SGS in house	50	< 90
188	氫化三聯苯 Terphenyl hydrogenated	61788-32-7	SGS in house	500	N.D.
189	鄰苯二甲酸二環己酯 Dicyclohexyl phthalate (DCHP)	84-61-7	SGS in house	500	N.D.
190	1,2,4-苯三甲酸酐 Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	552-30-7	SGS in house	500	N.D.
191	八硼酸二鈉 Disodium octaborate	12008-41-2	SGS in house	-	N.D.
192	2,2-雙(4'-羥基苯基)-4-甲基戊烷 2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	SGS in house	500	N.D.
193	苯并[k]螢蒽 Benzo[k]fluoranthene	207-08-9	SGS in house	500	N.D.
194	螢蒽 Fluoranthene	206-44-0	SGS in house	500	N.D.
195	菲 Phenanthrene	85-01-8	SGS in house	500	N.D.
196	芘 Pyrene	129-00-0	SGS in house	500	N.D.
197	1,7,7-三甲基-3-(苯亞甲基)雙環[2.2.1]庚-2-酮 (3-苯亞甲基樟腦) 1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3- benzylidene camphor)	15087-24-8	SGS in house	500	N.D.
198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸，鹽類，及其 醃鹵(涵蓋他們其個別和組合之同分異構物) /2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propi onic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	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)
199	2-甲氧基乙基乙酯 2-methoxyethyl acetate	110-49-6	SGS in house	500	N.D.
200	4-叔丁基苯酚 4-tert-butylphenol	98-54-4	SGS in house	500	N.D.
201	三(4-壬基,支鏈及直鏈)亞磷酸酯含≥0.1%的 支鏈及直鏈 4-壬基酚 Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	SGS in house	500	N.D.
202	二異己基鄰苯二甲酸酯 Diisohexyl phthalate	71850-09-4	SGS in house	500	N.D.
203	2-苄基-2-二甲氨基-1-(4-嗎啉基)丁酮 2-benzyl-2-dimethylamino-4'- morpholinobutyrophenone	119313-12-1	SGS in house	500	N.D.
204	2-甲基-1-(4-甲硫基苯基)-2-嗎啡基-1-丙酮 2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one	71868-10-5	SGS in house	500	N.D.
205	全氟丁磺酸及其相關鹽類 Perfluorobutane sulfonic acid (PFBS) and its salts	-	SGS in house	500	N.D.
206	1-乙烯基咪唑 1-vinylimidazole	1072-63-5	SGS in house	500	N.D.
207	2-甲基咪唑 2-methylimidazole	693-98-1	SGS in house	500	N.D.
208	4-羥基苯甲酸丁酯 Butyl 4-hydroxybenzoate	94-26-8	SGS in house	500	N.D.
209	二正丁基雙(乙醯丙酮基)錫 Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	SGS in house	-	N.D.
210	雙(2-(2-甲氧基乙氧基)乙基)醚 Bis(2-(2-methoxyethoxy)ethyl) ether	43-24-8	SGS in house	500	N.D.
211	二月桂酸二辛基錫，錫烷，二辛基-，雙(椰油醯氧基)衍生物，以及任何其他錫烷，二辛基-，雙(脂肪醯氧基)衍生物。其中 C12 為脂肪醯氧基部分的主要碳原子數 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	-	SGS in house	-	N.D.
212	2-(4-叔丁基苄基)丙醛及其各自立體異構物 2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	SGS in house	500	N.D.
213	硼酸鈉鹽 Orthoboric acid, sodium salt	13840-56-7	SGS in house	-	N.D.
214	2,2-雙(溴甲基)-1,3-丙二醇及 2,2-bis(bromomethyl)propane 1,3-diol (BMP) 3-溴-2,2-雙(溴甲基)-1-丙醇及 2,2-dimethylpropan-1-ol, tribromo derivative / 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-二溴-1-丙醇 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 96-13-9	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)
215	戊二醛 Glutaral	111-30-8	SGS in house	500	N.D.
216	中鏈氯化石蠟[UVCB 物質，含量大於或等於 80% 碳鏈長度在 C14 至 C17 範圍內的直鏈氯代烷烴] Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	SGS in house	500	N.D.
217	透過由寡聚物反應烷基化的酚產物(主要在對位位置)具有 12 個碳支鏈或直鏈，並涵蓋其他同分異構物與/或其它組合 Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	SGS in house	500	N.D.
218	1,4-二氧六環 1,4-dioxane	123-91-1	SGS in house	500	N.D.
219	雙酚 B 4,4'-(1-methylpropylidene) bisphenol; (bisphenol B)	77-40-7	SGS in house	500	N.D.
220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亞甲基]二環 [2.2.1]庚烷-2-酮，包括各個異構體和/或其組合 ((±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof) (4-MBC)	-	SGS in house	500	N.D.
221	6,6'雙二叔丁基-2,2'-亞甲基雙對甲酚 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(DBMC)	119-47-1	SGS in house	500	N.D.
222	硫-(三環[5.2.1.0' ² ,6]癸-3-烯-8(或9)-基) 氧-(異丙基或異丁基或2-乙基己基) 氧-(異丙基或異丁基或2-乙基己基)二硫代磷酸酯 S-(tricyclo[5.2.1.0' ² ,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	SGS in house	500	N.D.
223	三(2-甲氧基乙氧基)乙烯基矽烷 Tris(2-methoxyethoxy)vinylsilane	1067-53-4	SGS in house	500	N.D.
224	N-羥甲基丙烯醯胺 N-(hydroxymethyl)acrylamide	924-42-5	SGS in house	500	N.D.
225	1,2-雙(2,4,6-三溴苯氧基)乙烷 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzen e]	37853-59-1	SGS in house	500	N.D.
226	四溴雙酚 A 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	SGS in house	500	N.D.
227	雙酚 S 4,4'-sulphonyldiphenol	80-09-1	SGS in house	500	N.D.
228	偏硼酸鋇 Barium diboron tetraoxide	13701-59-2	SGS in house	-	N.D.
229	雙(2-乙基己基)四溴鄰苯二甲酸酯，覆蓋任何單個異構體和/或其組合	-	SGS in house	500	N.D.

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	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof				
230	4-羥基苯甲酸 2-甲基丙酯 Isobutyl 4-hydroxybenzoate	4247-02-3	SGS in house	500	N.D.
231	三聚氰胺 Melamine	108-78-1	SGS in house	500	N.D.
232	全氟庚酸及其鹽類 Perfluoroheptanoic acid and its salts	-	SGS in house	500	N.D.
233	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)嗎啉和 2,2,3,3,5,5,6,6-八氟-4-(七氟丙基)嗎啉的反應物料 reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	SGS in house	500	N.D.
234	4,4'-二氯二苯基砜 Bis(4-chlorophenyl) sulphone	80-07-9	SGS in house	500	N.D.
235	(2,4,6-三甲基苯甲醯基)二苯基氧化磷 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	SGS in house	500	N.D.
236	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	599-64-4	SGS in house	500	N.D.
237	Bumetrizole (UV-326)	3896-11-5	SGS in house	500	N.D.
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	SGS in house	500	N.D.
239	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	SGS in house	500	N.D.
240	2,4,6-Tri-tert-butylphenol	732-26-3	SGS in house	500	N.D.
241	Bis(α, α-dimethylbenzyl)peroxide 過氧化二異丙苯	80-43-3	SGS in house	500	N.D.
242	磷酸三苯酯 Triphenyl phosphate	115-86-6	SGS in house	500	N.D.
243	alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid 6-[(C10-C13)-烷基-(支鏈, 不飽和) 2,5-二氧吡咯烷-1-基]己酸 6-[(C10-C13	2156592-54-8	SGS in house	500	N.D.
244	0,0,0-triphenyl phosphorothioate 硫代磷酸(0,0,0-三苯基)酯	597-82-0	SGS in house	500	N.D.
245	Octamethyltrisiloxane 八甲基三矽氧烷	107-51-7	SGS in house	500	N.D.
246	Perfluamine 全氟三丙胺	338-83-0	SGS in house	500	N.D.
247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives 三苯基硫代磷酸與叔丁基苯衍生物的反應產物	192268-65-8	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)

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	芘 Acenaphthene	83-32-9	SGS in house	0.2	N.D.
3	芘烯 Acenaphthylene	208-96-8	SGS in house	0.2	N.D.
4	蒽 Anthracene	120-12-7	SGS in house	0.2	N.D.
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	鹵素(氟) Halogen-Fluorine (F)	14762-94-8	SGS in house	50	N.D.
4	鹵素(氯) Halogen-Chlorine (Cl)	22537-15-1	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)
5	鹵素(溴) Halogen-Bromine (Br)	10097-32-2	SGS in house	50	N.D.
6	鹵素(碘) Halogen-Iodine (I)	14362-44-8	SGS in house	50	N.D.
7	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.，鎘為 100ppm Max.。7~10 項為歐盟 RoHS(2011/65/EU)指令於 2015.06.04 依據歐盟修正指令(EU)2015/863 新增的管制物質。
Item group I are specified as prohibitive substances by RoHS (2011/65/EU), in which maximum content of Pb、Hg、Cr⁺⁶、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 243~247 項為 2025.01.21 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 243~247 are listed since Jan.21.2025), 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.



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