

SVHC Assessment Report 高度關注物質評估報告

報告號碼 Number : TWNH00054465

Applicant Lida Machinery Co., Ltd.
申請廠商:
No. 2, Xingzhong St.,
Taoyuan District, Taoyuan City 33068,
Taiwan, R.O.C.

報告日期 Date : Mar 24, 2016

樣品敘述 Sample Description :

One (1) set of submitted sample said to be :

壹 (一) 件所送檢樣品據指各為 :

Item name 品名	: Freewheel
Item no. 型號	: A0N 1/2"x3/32"x14T BN, A0N 1/2"x3/32"x14T BK, A8K 1/2"x1/8"x16T BN, A8K 1/2"x1/8"x16T BK
Country of origin 產地	: Taiwan 台灣
Date sample received 樣品收到日期	: Mar 15, 2016
Date test started 開始測試日期	: Mar 17, 2016

Test Conducted 測試執行:

As requested by the applicant, a composite test of the submitted samples based on equal weight were conducted.

For details, please refer to attached pages.

依申請商之要求，送檢樣品以等重的方式進行混合測試，相關細節請參考附頁。

Authorized by:
On Behalf of Intertek Testing Services
Taiwan Limited



Matt Wang
Sr. Manager



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Summary 摘要:

According to the client's request, a composite test was conducted for the **168** Substances of Very High Concern (SVHC) in the Candidate List promulgated by the European Chemicals Agency (ECHA) on December 17, 2015. For the submitted samples, the content of each SVHC was less than 0.1% (w/w).

依據客戶要求，針對由歐盟化學總署(ECHA)於 2015 年 12 月 17 日所頒佈，列於候選清單中的 **168** 項高度關注物質(SVHC)進行篩檢測試。本送檢樣品中每支 SVHC 的濃度皆小於 0.1%(重量比)。

This assessment report is for reference purposes only. The applicant shall make his/her own judgment as to whether the information provided in assessment report is sufficient for his/her purposes. The screening results shown in this assessment report will be in relation to various factors, including but not limited to the weight or size of dismantled component and composite test approach, etc. If the content of SVHC is out of the threshold, further identification is recommended to obtain the information of SVHC in each material.

本評估報告僅作為參考之用，申請者應自行評估本報告中所提供的資訊是否符合其申請目的。評估結果與許多因素有關，包括拆解後零件的重量、大小，以及混合測試方式等各種因素。如果任何 SVHC 物質超過限值時，建議進一步鑑定，以獲得每一材料 SVHC 的含量。

The thresholds and SVHCs are defined in Article 7 and 57 of Regulation (EC) No 1907/2006 (REACH Regulation). The information is quoted from the ECHA and can be found via following links:

高度關注物質的限值與定義是依據 (EC) No 1907/2006 法規(REACH)第 7 節與第 57 節所規定。相關訊息引用自歐盟化學總署(ECHA)，相關資料可見於以下連結網站。

- <http://echa.europa.eu/regulations/reach/authorisation>
- http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

Substances of Very High Concern (SVHC) are classified as 下列物質將被歸類為高度關注物質(SVHC)

- carcinogenic, mutagenic or toxic to reproduction (CMR) classified in category 1 or 2, 歸類於第一或第二類致癌性、致誘變性、致生殖毒性物質(CMR)
- PBT (PBT) or vPvB (vPvB) according to the criteria in Annex XIII of the REACH Regulation, and/or 依據 REACH 法規附錄 13 規定，具持久性、生物累積性、毒性物質(PBT)或高持久性、生物累積性物質(vPvB)物質，與/或
- Identified, on a case-by-case basis, from scientific evidence as causing probable serious effects to humans or the environment of an equivalent level of concern as those above e.g. endocrine disruptors 透過個案研究，以科學證據證明可能造成對人類或環境造成如同上述嚴重影響的物質，例如擾亂內分泌物質。

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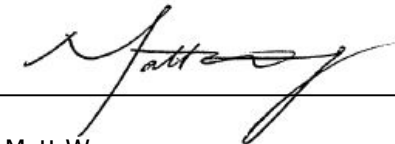
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Legal obligations 法律責任

- a. EU and EEA producers and importers of articles have a legal obligation to submit a notification to ECHA with regard to any substance on the Candidate List in their articles, if both the following conditions are met 假如下列兩種情形符合時，歐盟和歐洲經濟區的物品生產者或進口者就有向歐盟化學總署(ECHA)進行任何屬於候選清單中物質的通報法律責任。
 - the substance is present in their relevant articles above a concentration of 0.1% weight by weight, and 該物質存在於物品中且濃度超過 0.1%(重量百分比), 而且
 - the substance is present in their relevant articles in quantities totalling over 1 tonne per year. 該物質存在於物品中且年總量超過 1 噸。
 - b. EU and EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) have to provide sufficient information to allow safe use of the article to their customers or upon request, to a consumer within 45 days of the receipt of the request. This information must contain as a minimum the name of the substance. 如果物品含有重量百分比超過 0.1% 的高度關注物質時，歐盟和歐洲經濟區的供應者應該在收到要求後 45 天內，提供足夠的資訊給他們的客戶或提出需求者以安全使用該物品，這些資訊至少應包含物質的名稱。
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測試內容 Test Conducted

Tested Components 測試部件表:

Please refer to attached photos 請參考附件照片

	Tested Component 測試部件
(1)	Black metal wheel - small
(2)	Black metal wheel - big
(3)	Bronze metal wheel - small
(4)	Bronze metal wheel - big
(5)	Inner ring

Test Method 測試方法:

By Intertek in-house method 以 Intertek 內部方法

1. Acid digestion or aqueous extraction methods were used and the relevant elements were determined by ICP-OES. 以酸消化或水溶液萃取測試樣品，並用感應耦合電漿原子放射光譜儀分析相關元素。
2. If necessary, further confirmation test will be performed by UV-Vis (non-metal part) or spot test (metal part) for Cr⁶⁺. 必要時，六價鉻之確認，非金屬元件以紫外光-可見光分光光度計分析，金屬元件以點測試法確認。
3. Solvent extraction method was used for semi-volatile and non-volatile organic compounds and the relevant compounds were determined by GC-MS, GC-ECD, HPLC-DAD or LC-MS-MS. 半揮發性或不揮發性有機物質以溶劑萃取，並用氣相層析質譜儀，氣相層析儀電子捕捉偵測器，高效液相層析光二極體陣列偵測儀或串聯式液相層析質譜儀分析。



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Test Result Summary 測試結果:

No.	Substance Name 物質名稱	Result 結果 (ppm)
		(1/2/3/4/5)
--	Substances of Very High Concern (SVHC) in the Candidate List 候選清單中高度關注物質(SVHC)	All SVHC were not detected 所有 SVHC 皆未檢出

Remarks: ppm = Parts per million 百萬分之一 = mg/kg 毫克/公斤
備註 Detection limit = 100 ppm (for each compound)= 偵測極限 (每一個成份)



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Appendix – 168 Substances of Very High Concern (SVHC) in the Candidate List
附錄 - 候選清單中的 168 項高度關注物質(SVHC)

No.	Substance Name 物質名稱	EC Number	CAS Number	Reason for Inclusion 列入原因
1	Cobalt dichloride 二氯化鈷	231-589-4	7646-79-9	Carcinogenic Mutagenic
2	Diarsenic pentaoxide 五氧化二砷	215-116-9	1303-28-2	Carcinogenic
3	Diarsenic trioxide 三氧化二砷	215-481-4	1327-53-3	Carcinogenic
4	Lead hydrogen arsenate 酸式砷酸鉛	232-064-2	7784-40-9	Carcinogenic TRC
5	Triethyl arsenate 三乙基砷酸酯	427-700-2	15606-95-8	Carcinogenic
6	Sodium dichromate, dihydrate 重鉻酸鈉二水合物	234-190-3	7789-12-0	Carcinogenic Mutagenic TRC
7	Bis (tributyltin)oxide (TBTO) 三丁基氧化錫	200-268-0	56-35-9	PBT
8	Anthracene 蒽	204-371-1	120-12-7	PBT
9	4,4'-Diaminodiphenylmethane (MDA) 4,4'-二氨基二苯甲烷	202-974-4	101-77-9	Carcinogenic
10	Dibutyl phthalate (DBP) 鄰苯二甲酸二丁酯	201-557-4	84-74-2	TRC
11	5-tert-Butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene) 5-叔丁基-2,4,6-三硝基間二甲苯(二甲苯麝香)	201-329-4	81-15-2	vPvB
12	Bis(2-ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二(2-乙基己基)酯	204-211-0	117-81-7	Carcinogenic Equivalent Concern
13	Hexabromocyclododecane (HBCDD) 六溴環十二烷	247-148-4 221-695-9	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	PBT
14	Benzyl butyl phthalate (BBP) 鄰苯二甲酸苯基丁酯	201-622-7	85-68-7	TRC
15	Short chain chlorinated parafins (C10-13) 短鏈氯化石蠟	287-476-5	85535-84-8	PBT
16	Anthracene oil 蒽油	292-602-7	90640-80-5	PBT, vPvB
17	Anthracene oil, anthracene paste, distn. lights 蒽油, 蒽糊, 輕油	295-278-5	91995-17-4	PBT, vPvB, Carcinogenic Mutagenic
18	Anthracene oil, anthracene paste, anthracene fraction 蒽油, 蒽糊, 蒽餾分離液	295-275-9	91995-15-2	PBT, vPvB, Carcinogenic Mutagenic



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No.	Substance Name 物質名稱	EC Number	CAS Number	Reason for Inclusion 列入原因
19	Anthracene oil, anthracene-low 蔥油, 含蔥量少	292-604-8	90640-82-7	PBT, vPvB, Carcinogenic Mutagenic
20	Anthracene oil, anthracene paste 蔥油, 蔥糊	292-603-2	90640-81-6	PBT, vPvB, Carcinogenic Mutagenic
21	Coal tar pitch, high temp. 煤瀝青, 高溫	266-028-2	65996-93-2	PBT, vPvB, Carcinogenic
22	Acrylamide 丙烯醯胺	201-173-7	79-06-1	Carcinogenic Mutagenic
23	2,4-Dinitrotoluene 2,4-二硝基甲苯	204-450-0	121-14-2	Carcinogenic
24	Diisobutyl phthalate (DIBP) 鄰苯二甲酸二異丁酯	201-553-2	84-69-5	TRC
25	Lead chromate 鉻酸鉛	231-846-0	7758-97-6	Carcinogenic TRC
26	Lead chromate molybdate sulphate red (C.I. Pigment red 104) 紅色鉬鉻酸鉛硫酸鹽(C.I.紅色 104)	235-759-9	12656-85-8	Carcinogenic TRC
27	Lead sulfochromate yellow (C.I. Pigment yellow 34) 黃色硫化鉻酸鉛(C.I.黃色 34)	215-693-7	1344-37-2	Carcinogenic TRC
28	Tris(2-chloroethyl) phosphate (TCEP)三 2-(氯乙基)磷酸酯	204-118-5	115-96-8	TRC
29	Trichloroethylene 三氯乙烯	201-167-4	79-01-6	Carcinogenic
30	Boric acid 硼酸	233-139-2 234-343-4	10043-35-3 11113-50-1	TRC
31	Disodium tetraborate, anhydrous 無水四硼酸二鈉	215-540-4	1330-43-4 12179-04-3 1303-96-4	TRC
32	Tetraboron disodium heptaoxide, hydrate 含水七氧化四硼酸二鈉	235-541-3	12267-73-1	TRC
33	Sodium chromate 鉻酸鈉	231-889-5	7775-11-3	Carcinogenic Mutagenic TRC
34	Potassium chromate 鉻酸鉀	232-140-5	7789-00-6	Carcinogenic Mutagenic
35	Ammonium dichromate 重鉻酸銨	232-143-1	7789-09-5	Carcinogenic Mutagenic TRC
36	Potassium dichromate 重鉻酸鉀	231-906-6	7778-50-9	Carcinogenic Mutagenic TRC



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No.	Substance Name 物質名稱	EC Number	CAS Number	Reason for Inclusion 列入原因
37	Cobalt(II) sulphate 硫酸鈷(II)	233-334-2	10124-43-3	Carcinogenic TRC
38	Cobalt(II) dinitrate 硝酸鈷(II)	233-402-1	10141-05-6	Carcinogenic TRC
39	Cobalt(II) carbonate 碳酸鈷(II)	208-169-4	513-79-1	Carcinogenic TRC
40	Cobalt(II) diacetate 醋酸鈷(II)	200-755-8	71-48-7	Carcinogenic TRC
41	2-Methoxyethanol 2-甲氧基乙醇	203-713-7	109-86-4	TRC
42	2-Ethoxyethanol 2-乙氧基乙醇	203-804-1	110-80-5	TRC
43	Chromium trioxide 三氧化鉻	215-607-8	1333-82-0	Carcinogenic Mutagenic
44	Acids generated from chromium trioxide and their oligomers 由三氧化鉻和其他低聚合物形成的酸類: Chromic acid 鉻酸 Dichromic acid 重鉻酸 Oligomers of chromic acid and dichromic acid 鉻酸和重鉻酸的低聚物	231-805-5 236-881-5 --	7738-94-5 13530-68-2 --	Carcinogenic
45	2-Ethoxyethyl acetate (2-EEA) 乙酸-2-乙氧基乙酯	203-839-2	111-15-9	TRC
46	Strontium chromate 鉻酸鋇	232-142-6	7789-06-2	Carcinogenic
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) 鄰苯二甲酸二(C7-11 支鏈與直鏈)烷基酯	271-084-6	68515-42-4	TRC
48	Hydrazine 肼	206-114-9	7803-57-8 302-01-2	Carcinogenic
49	1-Methyl-2-pyrrolidone (NMP) 1-甲基吡咯烷酮	212-828-1	872-50-4	TRC
50	1,2,3-Trichloropropane 1,2,3-三氯丙烷	202-486-1	96-18-4	Carcinogenic TRC
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 鄰苯二甲酸二(C6-8 支鏈)烷基酯, 富 C7	276-158-1	71888-89-6	TRC
52	Dichromium tris(chromate) 鉻酸鉻	246-356-2	24613-89-6	Carcinogenic
53	Potassium hydroxyoctaoxodizincatedi-chromate 氫氧化鉻酸鋅鉀	234-329-8	11103-86-9	Carcinogenic
54	Pentazinc chromate octahydroxide C.I.顏料黃 36	256-418-0	49663-84-5	Carcinogenic
55	Formaldehyde, oligomeric reaction products with aniline (technical MDA) 甲醛和苯胺聚合物	500-036-1	25214-70-4	Carcinogenic



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No.	Substance Name 物質名稱	EC Number	CAS Number	Reason for Inclusion 列入原因
56	Aluminosilicate refractory ceramic fibres (RCF) 矽酸鋁,陶瓷耐火纖維**	--	--	Carcinogenic
57	Zirconia aluminosilicate refractory ceramic fibres (Zr-RCF) 矽酸鋁氧化鋯,陶瓷耐火纖維**	--	--	Carcinogenic
58	Bis(2-methoxyethyl)phthalate(DMEP) 鄰苯二甲酸二甲氧乙酯	204-212-6	117-82-8	TRC
59	2-Methoxyaniline(<i>o</i> -Anisidine) 鄰甲氧基苯胺	201-963-1	90-04-0	Carcinogenic
60	4-(1,1,3,3-Tetramethylbutyl)phenol, (4- <i>tert</i> -Octylphenol) 對特辛基苯酚	205-426-2	140-66-9	PBT, vPvB
61	1,2-Dichloroethane 1,2-二氯乙烷	203-458-1	107-06-2	Carcinogenic
62	Bis(2-methoxyethyl) ether 二甘醇二甲醚	203-924-4	111-96-6	TRC
63	Arsenic acid 砷酸	231-901-9	7778-39-4	Carcinogenic
64	Calcium arsenate 砷酸鈣	231-904-5	7778-44-1	Carcinogenic
65	Trilead diarsenate 砷酸鉛	222-979-5	3687-31-8	Carcinogenic TRC
66	N,N-Dimethylacetamide (DMAC) N,N-二甲基乙醯胺	204-826-4	127-19-5	TRC
67	4,4'-Methylenebis(2-chloroaniline) (MOCA) 4,4'-亞甲雙(2-氯苯胺)	202-918-9	101-14-4	Carcinogenic
68	Phenolphthalein 酚酞	201-004-7	77-09-8	Carcinogenic
69	Lead azide (Lead diazide) 疊氮化鉛	236-542-1	13424-46-9	TRC
70	Lead styphnate 收斂酸鉛	239-290-0	15245-44-0	TRC
71	Lead dipicrate 苦味酸鉛	229-335-2	6477-64-1	TRC
72	1,2-Bis(2-methoxyethoxy)ethane (TEGDME; Triglyme) 三乙二醇二甲醚	203-977-3	112-49-2	TRC
73	1,2-Dimethoxyethane; Ethylene glycol dimethyl ether (EGDME) 乙二醇二甲醚	203-794-9	110-71-4	TRC
74	Diboron trioxide 三氧化二硼	215-125-8	1303-86-2	TRC
75	Formamide 甲醯胺	200-842-0	75-12-7	TRC
76	Lead(II) bis(methanesulfonate) 甲基磺酸鉛	401-750-5	17570-76-2	TRC
77	1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC) 異氰尿酸三縮水甘油酯	219-514-3	2451-62-9	Mutagenic
78	1,3,5-Tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC) β 型異氰尿酸三縮水甘油酯	423-400-0	59653-74-6	Mutagenic



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No.	Substance Name 物質名稱	EC Number	CAS Number	Reason for Inclusion 列入原因
79	4,4'-Bis(dimethylamino)benzophenone (Michler's ketone) 4,4'-二(N,N-二甲胺基)二苯甲酮	202-027-5	90-94-8	Carcinogenic
80	N,N,N',N'-Tetramethyl-4,4'-methylenedianiline (Michler's base) 4,4'-亞甲基雙(N,N-二甲苯胺)	202-959-2	101-61-1	Carcinogenic
81	{4-[[4-Anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene} dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] {4-[[4-苯胺基-1-萘基][4-(二甲基胺基)苯基]亞甲基]環己-2,5-二烯-1-亞基}二甲基氯化銨 (C.I. 鹼性藍 26)	219-943-6	2580-56-5	Carcinogenic
82	{4-[4,4'-Bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene}dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] {4-[4,4'-雙(二甲基胺基)二苯亞甲基]環己-2,5-二烯-1-亞基}二甲基氯化銨 (C.I. 鹼性紫 3)	208-953-6	548-62-9	Carcinogenic
83	4,4'-Bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (4,4'-雙(二甲基胺基)-4''-(甲基胺基)三苯甲基醇)	209-218-2	561-41-1	Carcinogenic
84	α, α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] α, α -雙[4-(二甲基胺基)苯基]-4-(苯基胺基)-1-萘甲醇 (C.I. 溶劑藍 4)	229-851-8	6786-83-0	Carcinogenic
85	Bis(pentabromophenyl) ether (DecaBDE) 十溴聯苯醚	214-604-9	1163-19-5	PBT, vPvB
86	Pentacosafuorotridecanoic acid 全氟十三酸	276-745-2	72629-94-8	vPvB
87	Tricosafuorododecanoic acid 全氟十二酸	206-203-2	307-55-1	vPvB
88	Henicosafuoroundecanoic acid 全氟十一酸	218-165-4	2058-94-8	vPvB
89	Heptacosafuorotetradecanoic acid 全氟十四酸	206-803-4	376-06-7	vPvB
90	4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues 辛基酚聚醚-9，包括界定明確的物質以及 UVCB 物質、聚合物及同系物	--	--	Equivalent Concern



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No.	Substance Name 物質名稱	EC Number	CAS Number	Reason for Inclusion 列入原因
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 支鏈及直鏈壬基酚-包括含有 9 個碳烷基鏈之所有獨立同分異構體及所有含有含直鏈或支鏈之 9 個碳烷基鏈 UVCB 物質	-	-	Equivalent Concern
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) 偶氮二甲醯胺	204-650-8	123-77-3	Equivalent Concern
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) 六氫鄰苯二甲酸酐	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	Equivalent Concern
94	Hexahydromethylphthalic anhydride (MHHPA-1) 甲基六氫苯酐 Hexahydro-4-methylphthalic anhydride (MHHPA-2) 4-甲基六氫苯酐 Hexahydro-1-methylphthalic anhydride (MHHPA-3) 甲基六氫化鄰苯二甲酸酐 Hexahydro-3-methylphthalic anhydride (MHHPA-4) 3-甲基六氫苯二甲酯酐	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	Equivalent Concern
95	Methoxy acetic acid 甲氧基乙酸	210-894-6	625-45-6	TRC
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (PIPP) 1, 2-苯二羧二戊酯 (支鏈和直鏈)	284-032-2	84777-06-0	TRC
97	Diisopentyl phthalate (DIPP) 鄰苯二甲酸二異戊酯	210-088-4	605-50-5	TRC
98	n-Pentyl-iso-pentyl phthalate (PIPP) 鄰苯二甲酸正戊基異戊基酯	--	776297-69-9	TRC
99	1,2-Diethoxyethane 乙二醇二乙醚	211-076-1	629-14-1	TRC
100	N,N-Dimethylformamide; Dimethyl formamide (DMFA) N,N-二甲基甲醯胺	200-679-5	68-12-2	TRC
101	Dibutyltin dichloride (DBT) 二丁基二氯化錫	211-670-0	683-18-1	TRC
102	Acetic acid, lead salt, basic 鹼式乙酸鉛	257-175-3	51404-69-4	TRC
103	Basic lead carbonate (Trilead bis(carbonate) dihydroxide) 鹼式碳酸鉛	215-290-6	1319-46-6	TRC
104	Lead oxide sulfate (Basic lead sulfate) 鹼式硫酸鉛	234-853-7	12036-76-9	TRC



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105	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate) 二鹽基鄰苯二甲酸鉛	273-688-5	69011-06-9	TRC
106	Dioxobis(stearato)trilead 雙(十八酸基)二氧化三鉛	235-702-8	12578-12-0	TRC
107	Fatty acids, C16-18, lead salts C16-18 脂肪酸鉛鹽	292-966-7	91031-62-8	TRC
108	Lead bis(tetrafluoroborate) 氟硼酸鉛	237-486-0	13814-96-5	TRC
109	Lead cyanamidate 氨基氰鉛鹽	244-073-9	20837-86-9	TRC
110	Lead dinitrate 硝酸鉛	233-245-9	10099-74-8	TRC
111	Lead oxide (Lead monoxide) 一氧化鉛	215-267-0	1317-36-8	TRC
112	Lead tetroxide (Orange lead) 四氧化三鉛	215-235-6	1314-41-6	TRC
113	Lead titanium trioxide 鈦酸鉛	235-038-9	12060-00-3	TRC
114	Lead titanium zirconium oxide 鈦酸鉛鋯	235-727-4	12626-81-2	TRC
115	Pentalead tetraoxide sulphate 氧化鉛與硫酸鉛的複合物	235-067-7	12065-90-6	TRC
116	Pyrochlore, antimony lead yellow 顏料黃 41	232-382-1	8012-00-8	TRC
117	Silicic acid, barium salt, lead-doped 摻雜鉛的矽酸鋇	272-271-5	68784-75-8	TRC
118	Silicic acid, lead salt 矽酸鉛	234-363-3	11120-22-2	TRC
119	Sulfurous acid, lead salt, dibasic 亞硫酸鉛 (II)	263-467-1	62229-08-7	TRC
120	Tetraethyllead 四乙基鉛	201-075-4	78-00-2	TRC
121	Tetralead trioxide sulphate 三鹼式硫酸鉛	235-380-9	12202-17-4	TRC
122	Trilead dioxide phosphonate 磷酸氧化鉛	235-252-2	12141-20-7	TRC
123	Furan 呋喃	203-727-3	110-00-9	Carcinogenic
124	Propylene oxide; 1,2-Epoxypropane; Methyloxirane 1,2-環氧丙烷	200-879-2	75-56-9	Carcinogenic Mutagenic
125	Diethyl sulphate 硫酸二乙酯	200-589-6	64-67-5	Carcinogenic Mutagenic
126	Dimethyl sulphate 硫酸二甲酯	201-058-1	77-78-1	Carcinogenic
127	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine 3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷	421-150-7	143860-04-2	TRC
128	Dinoseb 地樂酚	201-861-7	88-85-7	TRC
129	4,4'-Methylenedi- <i>o</i> -toluidine 4,4'-二氨基-3,3'-二甲基二苯 甲烷	212-658-8	838-88-0	Carcinogenic
130	4,4'-Oxydianiline and its salts 4,4'-二氨基二苯醚	202-977-0	101-80-4	Carcinogenic Mutagenic
131	4-Aminoazobenzene; 4-Phenylazoaniline 4-胺基偶氮苯	200-453-6	60-09-3	Carcinogenic
132	4-Methyl- <i>m</i> -phenylenediamine (2,4-Toluene-diamine) 2,4-二氨基甲苯	202-453-1	95-80-7	Carcinogenic



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No.	Substance Name 物質名稱	EC Number	CAS Number	Reason for Inclusion 列入原因
133	6-Methoxy- <i>m</i> -toluidine (<i>p</i> -cresidine) 2-甲氧基-5-甲基苯胺	204-419-1	120-71-8	Carcinogenic
134	Biphenyl-4-ylamine ; 4-Aminobiphenyl 4-胺基聯苯	202-177-1	92-67-1	Carcinogenic
135	<i>o</i> -Aminoazotoluene 鄰氨基偶氮甲苯	202-591-2	97-56-3	Carcinogenic
136	<i>o</i> -Toluidine; 2-Aminotoluene 鄰甲苯胺	202-429-0	95-53-4	Carcinogenic
137	N-Methylacetamide N-甲基乙醯胺	201-182-6	79-16-3	TRC
138	1-Bromopropane; <i>n</i> -Propyl bromide 1-溴丙烷	203-445-0	106-94-5	TRC
139	Cadmium 鎘	231-152-8	7440-43-9	Carcinogenic Equivalent Concern
140	Cadmium oxide 氧化鎘	215-146-2	1306-19-0	Carcinogenic
141	Pentadecafluorooctanoic acid (PFOA) 全氟辛酸	206-397-9	335-67-1	TRC
142	Ammonium pentadecafluorootanoate (APFO) 全氟辛酸銨	223-320-4	3825-26-1	TRC
143	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] 支鏈及直鏈乙氧基壬基酚- 包括含有 9 個碳烷基鏈及所有含有含直鏈或支鏈之 9 個碳烷基鏈 UVCB 物質、聚合物及同系物，包括獨立同分異構物及複合物	--	--	Equivalent Concern
144	Dipentyl phthalate (DPP) 鄰苯二甲酸二戊酯	205-017-9	131-18-0	TRC
145	Cadmium sulphide 硫化鎘	215-147-8	1306-23-6	Carcinogenic Equivalent Concern
146	Lead di(acetate) 醋酸鉛	206-104-4	301-04-2	TRC
147	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) C.I. 直接黑 38	217-710-3	1937-37-7	Carcinogenic
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) C.I. 直接紅 28	209-358-4	573-58-0	Carcinogenic
149	Trixylyl phosphate 磷酸三(二甲苯)酯	246-677-8	25155-23-1	TRC



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No.	Substance Name 物質名稱	EC Number	CAS Number	Reason for Inclusion 列入原因
150	Dihexyl phthalate (DnHP) 鄰苯二甲酸二正己酯	201-559-5	84-75-3	TRC
151	Imidazolidine-2-thione; 2-Imidazoline-2-thiol 亞乙基硫脒	202-506-9	96-45-7	TRC
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 鄰苯二甲酸二己酯 (支鏈和直鏈)	271-093-5	68515-50-4	TRC
153	Cadmium chloride 氯化鎘	233-296-7	10108-64-2	Carcinogenic Equivalent Concern Mutagenic TRC
154	Sodium perborate; Perboric acid, sodium salt 過硼酸鈉	239-172-9, 234-390-0	--	TRC
155	Sodium peroxometaborate 過氧偏硼酸鈉	231-556-4	7632-04-4	TRC
156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-(2'-羥基-3',5'-二-叔-戊基苯基)苯並三唑	247-384-8	25973-55-1	PBT, vPvB
157	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) 2-(2'-羥基-3',5'-二-叔-丁基苯基)-苯並三唑	223-346-6	3846-71-7	PBT, vPvB
158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) 二正辛基-双(2-乙基己基巯基乙酸酯)錫	239-622-4	15571-58-1	TRC
159	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) 二正辛基-双(2-乙基己基巯基乙酸酯)錫和單辛基-三(2-乙基己基巯基乙酸酯)錫的反應物	--	--	TRC
160	Cadmium fluoride 氟化鎘	232-222-0	7790-79-6	Carcinogenic Equivalent Concern Mutagenic TRC
161	Cadmium sulphate 硫酸鎘	233-331-6	10124-36-4, 31119-53-6	Carcinogenic Equivalent Concern Mutagenic TRC
162	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate 鄰苯二甲酸二(C6-C10)烷基酯:(癸基,己基,辛基)酯與1,2-鄰苯二甲酸的混合物且鄰苯二甲酸二己酯含量 $\geq 0.3\%$	271-094-0 272-013-1	68515-51-5 68648-93-1	TRC



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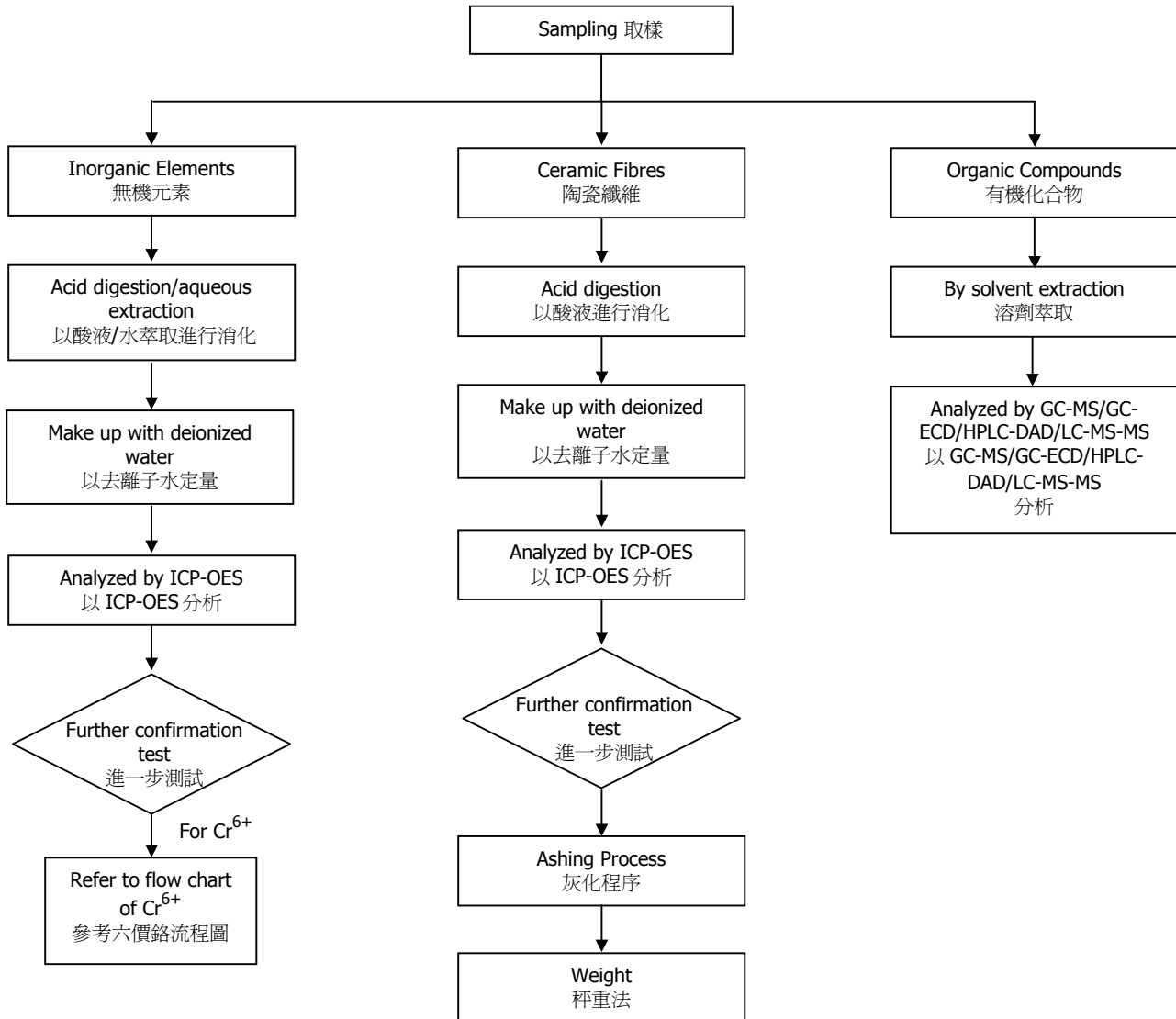
No.	Substance Name 物質名稱	EC Number	CAS Number	Reason for Inclusion 列入原因
163	5- <i>sec</i> -Butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5- <i>sec</i> -Butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof] 卡拉花醛及其同分異構化合物	--	--	vPvB
164	Nitrobenzene 硝基苯	202-716-0	98-95-3	TRC
165	2,4-Di- <i>tert</i> -butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) 2,4-二-叔丁基-6-(5-氯代苯并三唑-2-基)苯酚	223-383-8	3864-99-1	vPvB
166	2-(2H-Benzotriazol-2-yl)-4-(<i>tert</i> -butyl)-6-(<i>sec</i> -butyl)phenol (UV-350) 2-(2H-苯並三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚	253-037-1	36437-37-3	vPvB
167	1,3-Propanesultone 1,3-丙烷磺內酯	214-317-9	1120-71-4	Carcinogenic
168	Perfluorononan-1-oi-c-acid and its sodium and ammonium salts 全氟壬酸及其鈉鹽和銨鹽	206-801-3	375-95-1 21049-39-8 4149-60-4	TRC, PBT

Remarks: Carcinogenic = 致癌性
備註 Mutagenic = 致誘變
TRC = Toxic for Reproduction 致生殖毒性
PBT = Persistent, Bioaccumulative and Toxic 持久性、生物累積性、毒性物質
vPvB = Very Persistent And Very Bioaccumulative 高持久性、生物累積性物質
Equivalent concern = 相同危害等級
** = The Dec 19, 2011 'Aluminosilicate Refractory Ceramic Fibres' and 'Zirconia Aluminosilicate Refractory Ceramic Fibres' listings open the scope of these items from the original listing (Jan 1, 2010). Although these two modified substances are counted as additions to the existing list, they are revisions of the original substance listings to ensure all hazardous versions are covered. As of Jun 18, 2012, these entries have been consolidated; there is now one entry for 'Aluminosilicate Refractory Ceramic Fibres' and one entry for 'Zirconia Aluminosilicate Refractory Ceramic Fibres'.
"矽酸鋁陶瓷耐火纖維"與"矽酸鋁氧化鋯陶瓷耐火纖維"於 2011 年 12 月 19 日從原來的清單中(2010 年 01 月 01 日)再被提出討論。雖然這兩個物質是以新增加項目的型態被計算於原有清單中，但是它們僅是修訂原有清單資訊以確保所有的危害形態都被包含於清單中。在 2012 年 06 月 18 日時，這些項目被合併起來，所以現在只有各一個"矽酸鋁陶瓷耐火纖維"與"矽酸鋁氧化鋯陶瓷耐火纖維"項目。



測試內容 Test Conducted

Measurement Flowchart 測試流程圖:

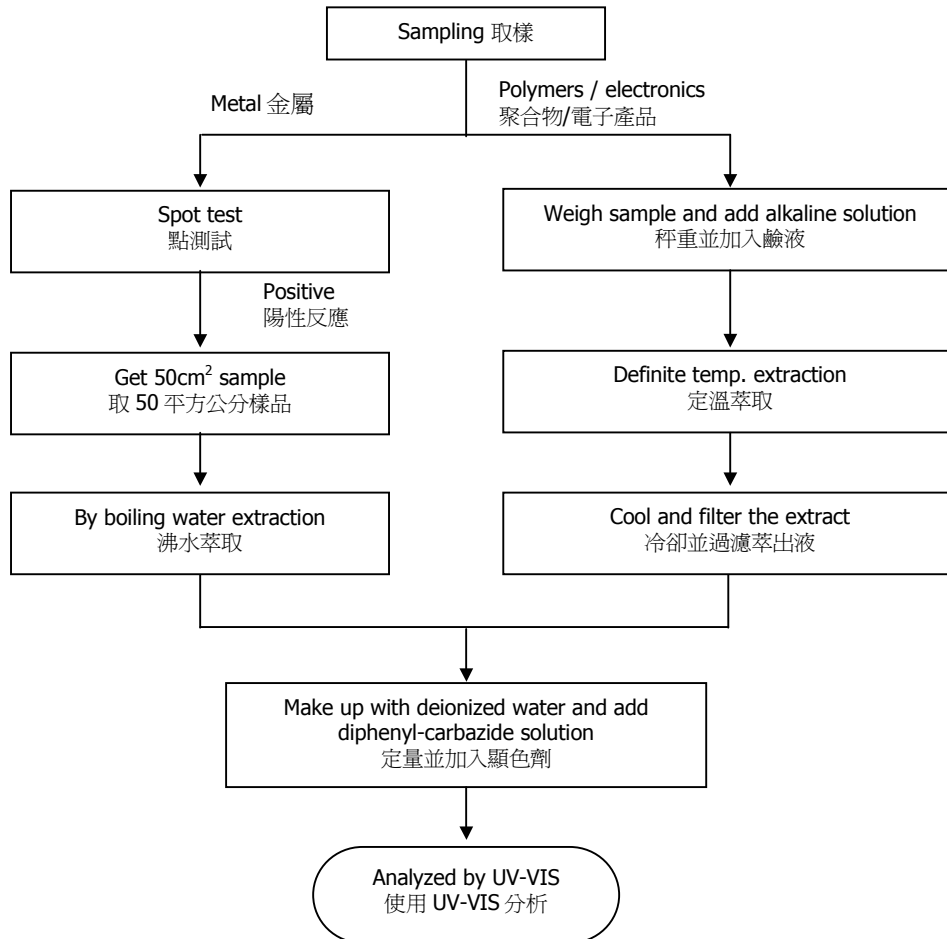


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Test for Chromium (VI) Content 六價鉻測試流程圖



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End of Report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.



TERMS AND CONDITIONS OF BUSINESS

1. Intertek Testing Services Taiwan Ltd. (hereinafter "the Company") agrees to provide its services in accordance with and subject to the terms and conditions herein contained (hereinafter "the Conditions"). The Conditions may only be modified by a variation expressed in writing and signed on behalf of the Company by a director and no other action on the part of the Company or its employees or agents shall be construed as an acceptance of any other terms and conditions.
2. The Company acts for the person or body from whom the request to provide its services has originated (hereinafter "the Principal"). No other party is entitled to give instructions to the Company unless agreed by the Company.
3. All rights (including but not limited to copyright) in any test reports, surveys, certificates of inspection or other material produced by the Company in the course of providing its services shall remain vested in the Company. The Principal shall not reproduce or make copies, publish or disclose the contents of any such material or extracts thereof to any third party without the Company's prior written consent, which may be refused at its discretion. The Principal further undertakes that its servants and agents shall keep confidential and shall not publish or otherwise use any information that may be acquired relating to the Company's activities.
4.
 - 4.1 The Company undertakes to exercise due care and skill in the performance of its services and accepts responsibility only where such skill and care is not exercised.
 - 4.2 The liability of the Company in respect of any claims for loss, damage or expense of whatsoever nature and howsoever arising in respect of any breach of contract and/or any failure to exercise due skill and care by the Company shall in no circumstances exceed a total aggregate sum equal to ten (10) times the amount of the fee or commission payable in respect of the specific service required under the particular contract with the Company which gives rise to such claims provided however that the Company shall have no liability in respect of any claims for indirect or consequential loss including loss of profit and/or loss of future business and/or loss of production and/or cancellation of contracts entered into by the Principal.
 - 4.3 The Company shall not in any event be liable for any loss or damage caused by delay in performance or non-performance of any of its services where the same is occasioned by any cause whatsoever that is beyond the Company's control including but not limited to war, civil disturbance, requisitioning, governmental or parliamentary restriction, prohibitions or enactment of any kind, import or export regulations, strike or trade dispute (whether involving its own employees or those of any other person), difficulties in obtaining workmen or materials, breakdown of machinery, fire or accident. Should any such event occur the Company may cancel or suspend any contract for the provision of services without incurring any liability whatsoever.
 - 4.4 The Company will not be liable to the Principal for any loss or damage whatsoever sustained by the Principal as a result of any failure by the Company to comply with any time estimate given by the Company relating to the provision of its services. [See clause 9.1] [See clause 9.2]
 - 4.5 The Principal acknowledges that samples may be damaged or destroyed in the course of testing carried out by the Company or any of the Company's agent or subcontractor as part of the necessary testing process and the Company shall not in any event be liable for any loss or damage arising from the damage or destruction of the samples subject to testing.
 - 4.6 In the event that the Principal requests for the return of the samples, the Company shall not be responsible for any re-packaging of the samples prior to such return and the Company shall in no circumstances be liable for any loss or damage caused to any of the samples during or as a result of their shipment to the Principal for the purpose of this Clause 4.6.
5.
 - 5.1 Subject to the Principal's instructions as accepted by the Company, the test reports, surveys, certificates of inspection or other material produced by the Company shall contain statements of opinion made with due care within the limitation of the instructions received by the Company. The Company is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received.
 - 5.2 For pre-shipment inspection or survey of goods, the Company's inspector shall perform the inspection or survey when goods are 100% completed, packed and marked (unless otherwise agreed between the Company and the Principal). Goods for inspection or survey shall be unpacked in the presence of the Company's inspector and inspection or survey shall, subject to Condition 5.3, take place at the place specified by the Principal.
 - 5.3 If the Company's inspector finds that the location is not suitable for carrying out a proper inspection or survey of goods or where necessary equipment for inspection or survey is not available the inspector may, if practical in the circumstances, draw samples of goods from the location and carry out the inspection or survey at the premises of the Company. The Principal shall be responsible for all costs and expenses incurred in relation thereto.
 - 5.4 Reports, surveys or certificates issued following testing or analysis of samples contain the Company's specific opinion on those samples only but do not express any opinion upon the bulk from which the samples were drawn. If an opinion on the bulk is requested special arrangements in writing must be made in advance with the Company for the inspection and sampling of the bulk. In no circumstances shall the Company's responsibility extend beyond inspection, testing and reporting upon the samples actually drawn from the bulk and inspected, tested and surveyed by the Company and any inference to be drawn from the results of such inspection or survey or testing shall be entirely in the discretion and at the sole and exclusive responsibility of the Principal.
6. The Company shall be entitled at its discretion to delegate the performance of the whole or any part of the services contracted for with the Principal to any agent or subcontractor.
7. Every officer, employee, agent or subcontractor of the Company shall have the benefit of the limitations of liability and the indemnities contained in the General Conditions. So far as relates to such limitations and indemnities, any contract entered into by the Company is entered into not only on its own behalf but also as agent and trustee for every such person as aforesaid.
8. If the requirements of the Principal necessitate the analysis of samples by the Principal or by any third party the Company will pass on the results of the analysis but without responsibility for its accuracy. Where the Company is only able to witness an analysis by the Principal or by any third party the Company will provide confirmation, if such be the case, that a correct sample has been analysed but will not otherwise be responsible for the accuracy of such analysis.
9. The Principal will:
 - 9.1 ensure that instructions to the Company are given in due time and are accompanied by sufficient information to enable the required services to be performed effectively;
 - 9.2 accept that documents reflecting arrangements or agreements made between the Principal and any third party, or third party documents such as copies of contracts of sale, letters of credit, bills of lading, etc. are -if received by the Company considered to be for information only, without extending or restricting the services to be provided or obligations accepted by the Company.
 - 9.3 procure all necessary access for the Company's representatives to enable the required services to be performed effectively.
 - 9.4 supply, if required, any special equipment and personnel necessary for the performance of the required services.
 - 9.5 ensure that all necessary measures are taken for safety and security of working conditions, sites and installations during the performance of the required services;



- 9.6 take all necessary steps to eliminate or remedy any obstruction to or interruptions in the performance of the required services and repack all inspected goods immediately after any inspection or survey of them;
- 9.7 inform the Company in advance of any known hazards or dangers, actual or potential, associated with any request for the provision of services by the Company including but not limited to the presence or risk of radiation, toxic or noxious or explosive elements or materials, environmental pollution or poisons;
10. The Principal shall guarantee, hold harmless and indemnify the Company and its officers, employees, agents or subcontractors against:
- 10.1 all claims made by any third party for any loss, damage or expense of whatsoever nature and howsoever arising relating to the performance, purported performance or non-performance of any of services to the extent that the aggregate of any such claims relating to any one service exceeds the limit mentioned in Condition 4.2.
- 10.2 any loss or damage suffered by the Company as a result of the provision of services by the Company to the Principal otherwise than resulting from the Company's own error, negligence or wilful default.
11. 11.1 The Principal will punctually pay the Company immediately upon presentation of the relevant invoice or within such other period as may have been agreed in writing by the Company all charges rendered by the Company failing which interest will become due at the rate of 1.5 per cent per month from the date of invoice until payment. The Principal further agrees and undertakes to reimburse the Company all disbursements reasonably incurred in connection with the provision of its services.
- 11.2 The Principal shall not be entitled to retain or defer payment of any sums due to the Company on account of any dispute, cross claim or set off which it may allege against the Company.
- 11.3 In the event of any suspension of payment arrangement with creditors, bankruptcy, insolvency, receivership or cessation of business or failure of the Principal to pay part or all of any sums owing to the Company, the Company shall be entitled to suspend all further performance of its services and withhold the issue of any test report, survey, certificate of inspection or other material requested forthwith and without liability until payment of all sums owing to the Company together with interest thereon is made
12. Without prejudice to any rights the Company may have at law or under the Conditions, the Company has the following rights in the event of non-payment of sums owing to the Company as set out below.
- 12.1 The Company has a general and particular lien over all samples delivered to be tested for all claims and sums owing by the Principal to the Company under any contract whatsoever and in any other way whatsoever.
- 12.2 During the currency of any such lien the Company is entitled to be paid reasonable storage charges for samples retained in the Company's custody.
- 12.3 Without prejudice to the Company's lien and other rights under Conditions 12.1 to 12.2 above, if test, inspection or survey of the goods takes place on the premises of the Company, the Company may give notice to the Principal that the goods (or any part thereof) are ready for collection and the Principal shall collect the same within three (3) calendar days (Saturdays, Sundays and Public Holidays excepted). Upon the expiry of this period, if the goods are not collected by the Principal, at the sole discretion of the Company the goods may be deemed abandoned and/or destroyed.
- 12.4 Without prejudice to Conditions 12.3 above, the Company shall have the discretion to store the goods (or any of them) at their own premises or elsewhere at the Principal's expense if the Principal has deposited the goods at the Company's premises for the performance of these services and has subsequently failed to collect the said goods.
- 12.5 The expenses by way of disbursements that the Company may reclaim from the Principal include all reasonable costs incurred by the Company (whether by way of storage, insurance or otherwise) in respect of the goods and it is expressly declared that it shall be reasonable but not mandatory for the Company to effect comprehensive insurance in respect of the goods.
- 12.6 Without prejudice to the Company's lien and other rights under Conditions 12.1 to 12.5 above, the risk and property in the goods shall remain at all times in the Principal.
13. In the event of the Company being prevented by reason of any cause whatsoever outside the Company's control from performing or completing any service for which an order has been given or an agreement made, the Principal will pay to the Company:
- 13.1 the amount of all abortive expenditure actually made or incurred; and
- 13.2 a proportion of the agreed fee or commission equal to the proportion (if any) of the service actually carried out; and the Company shall be relieved of all responsibility whatsoever for the partial or total non-performance of the required service.
14. The Company shall be discharged from all liability to the Principal for all claims for loss, damage or expense unless suit is brought within twelve (12) months after the date of the performance by the Company of the service which gives rise to the claim or in the event of any alleged non-performance within twelve (12) months of the date when such service should have been completed.
15. In the event that any unforeseen additional time or costs are incurred in the course of carrying out any of its services the Company shall be entitled to render additional charges as shall reasonably reflect such additional time and costs incurred.
16. All contracts for provision of services by the Company and the Conditions shall be construed in accordance with and governed by the laws of the ROC and for the purpose of any arbitral or litigation proceedings such contracts shall be deemed to have been made and performed in Taiwan. If any provision contained in the Conditions is and/or becomes invalid, illegal or unenforceable in any respect under the laws of the ROC, the validity, legality and enforceability of the remaining provisions hereof shall not in any way be affected or impaired thereby.
17. Any dispute or claim arising out of or relating to the provision of, or any agreement to provide, services by the Company shall be referred to and determined by arbitration subject to the Company's sole and overriding discretion to commence litigation proceedings in the courts of Taiwan or the courts of any other country as the Company may choose. The parties may agree to the appointment of an arbitrator failing which either party may, after having made a written request to concur in the appointment of an arbitrator, request the ROC Arbitration Association to appoint an arbitrator. The place of arbitration shall be in Taiwan. There shall only be one arbitrator.

