



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

Test Report Number : CGZ3121029-03414-C

CTS (Ningbo) Testing Service Technology Co., Ltd.

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**TEST REPORT**

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1 General Information**1.1 Application Details**

Name : Pro-A Innovation Limited
Address : A1103, 11/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, N.T., HK
Contact : Pat Wong
Telephone : +852-31161173
Fax : +852-30115558
Mobile telephone : +852-92001448
Email : sales@pro-a.com.hk

1.2 Manufacturer & Buyer

Manufacturer name : Pro-A Innovation Limited
Address : A1103, 11/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, N.T., HK
Contact : Pat Wong
Telephone : +852-31161173
Fax : +852-30115558
Mobile telephone : +852-92001448
Email : sales@pro-a.com.hk
Buyer name : Overseas

1.3 Description of the Test Item

Sample name : PVC card
Model No. : /
Brand name : Pro-A
Condition of sample(s) : EFFECTIVE

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2 Test Results

2.1 General Information

2.1.1 Sample Receiving Date

Oct. 29, 2012

2.1.2 Testing Period

Oct. 29, 2012 to Nov. 2, 2012

2.1.3 Test Requested

- 1) As specified by applicant, based on the list published by European chemicals agency (ECHA) on 2008 October 28 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the fifteen (15) Substances of Very High Concern (SVHC) content in the submitted sample.
- 2) As specified by applicant, based on the list published by European chemicals agency (ECHA) on 2010 January 13 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the thirteen (13) Substances of Very High Concern (SVHC) content in the submitted sample.
- 3) As specified by applicant, based on the list published by European chemicals agency (ECHA) on 2010 June 18 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the eight (8) Substances of Very High Concern (SVHC) content in the submitted sample.
- 4) As specified by applicant, based on the list of the fourth published by European chemicals agency (ECHA) on 2010 December for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the eight (8) Substances of Very High Concern (SVHC) content in the submitted sample.
- 5) As specified by applicant, based on the list of the fifth published by European chemicals agency (ECHA) on 2011 May 31 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the seven (7) Substances of Very High Concern (SVHC) content in the submitted sample.
- 6) As specified by applicant, based on the list of the sixth published by European chemicals agency (ECHA) on 2011 December 19 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the twenty (20) Substances of Very High Concern (SVHC) content in the submitted sample.
- 7) As specified by applicant, based on the list of the seventh published by European chemicals agency (ECHA) on 2012 June 18 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the thirteen (13) Substances of Very High Concern (SVHC) content in the submitted sample.
- 8) In accordance with the RoHS Directive 2011/65/EU Annex II.

2.1.4 Test Method

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Please refer to the following page(s)

2.2 Results

2.2.1 SVHC Content

- 1) Test Method: With refer to US EPA 3051A, US EPA3052, US EPA8270D, ISO 17353 2004-9
 Test Instrument: ICP/OES, GC/MS, IC.
- 2) EN14372, US EPA3550C, ZLS standard ZEK 01.2-08 and In-House method. Analyzed by ICP-AES and GC/MS.
- 3-7) Test Method: With refer to US EPA 3051A, US EPA3052, US EPA8270D.
 Test Instrument: ICP/OES, GC/MS, HPLC.

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Anthracene	120-12-7	%	0.005	N.D.	PBT
4,4'-Diaminodiphenylmethane	101-77-9	%	0.005	N.D.	CMR
Dibutyl phthalate(DBP)	84-74-2	%	0.005	N.D.	CMR
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	N.D.	CMR
Cobalt dichloride*	7646-79-9	%	0.05	N.D.	CMR
Diarsenic pentaoxide*	1303-28-2	%	0.05	N.D.	CMR
Diarsenic trioxide*	1327-53-3	%	0.05	N.D.	CMR
Sodium dichromate, dehydrate [#]	7789-12-0, 10588-01-9	%	0.05	N.D.	CMR
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	%	0.005	N.D.	vPvB
Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	%	0.005	0.006	CMR
Hexabromocyclododecane (HBCDD)	25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	%	0.005	N.D.	PBT
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	%	0.005	N.D.	PBT
Bis(tributyltin)oxide	56-35-9	%	0.005	N.D.	PBT
Lead hydrogen arsenate*	7784-40-9	%	0.05	N.D.	CMR
Triethyl arsenate*	15606-95-8	%	0.05	N.D.	CMR

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- Note :
1. N.D. = not detected (less than MQL)
N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g. As,Pb,Co).
 5. #The Substances are tested in term of hexavalent chromium, Cr(VI).
 6. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

2) The thirteen (13) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Anthracene oil(**)	90640-80-5	%	0.05	N.D.	PBT
Anthracene oil, anthracene paste, distn. Lights(**)	91995-17-4	%	0.05	N.D.	PBT
Anthracene oil, anthracene paste, anthracene fraction(**)	91995-15-2	%	0.05	N.D.	PBT
Anthracene oil, anthracene-low(**)	90640-82-7	%	0.05	N.D.	PBT
Anthracene oil, anthracene paste(**)	90640-81-6	%	0.05	N.D.	PBT
Pitch, coal tar, high-temp.(**)	65996-93-2	%	0.05	N.D.	PBT
DIBP (Di-isobutyl phthalate)	84-69-5	%	0.005	N.D.	Toxic to Reproduction Category 2
2,4-Dinitrotoluene	121-14-2	%	0.005	N.D.	Carcinogen Category 2
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	%	0.005	N.D.	Toxic to Reproduction Category 2
Lead chromate	7758-97-6	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1
Lead chromate molybdate sulphate red(C.I. Pigment Red 104)	12656-85-8	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1

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Acrylamide	79-06-1	%	0.01	N.D.	Carcinogen Category2; Mutagen Category 2
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- Note :
1. N.D. = not detected (less than MQL)
N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. (**): The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
 5. Classification of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006.
 6. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.
 7. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

3) The eight (8) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Trichloroethylene	79-01-6	%	0.05	N.D.	Carcinogenic category 2
Boric acid*	10043-35-3 11113-50-1	%	0.05	N.D.	Toxic for reproduction category 2
Disodium tetraborate, anhydrous*	1330-43-4 12179-04-3 1303-96-4	%	0.05	N.D.	Toxic for reproduction category 2
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	%	0.05	N.D.	Toxic for reproduction category 2
Sodium chromate*	7775-11-3	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2
Potassium chromate*	7789-00-6	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2

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Ammonium dichromate*	7789-09-5	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2
Potassium dichromate*	7778-50-9	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2

- Note :
1. N.D. = not detected (less than MQL)
N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g. B, Cr).
 5. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.

4) The eight (8) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Cobalt(II) sulphate*	10124-43-3	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
Cobalt(II) dinitrate*	10141-05-6	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
Cobalt(II) carbonate*	513-79-1	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
Cobalt(II) diacetate*	71-48-7	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
2-Methoxyethanol	109-86-4	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)

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2-Ethoxyethanol	110-80-5	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
Chromium trioxide*	1333-82-0	%	0.05	N.D.	CMR (carcinogen, cat. 1; mutagen, cat. 2)
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	%	0.05	N.D.	CMR (carcinogen, cat. 2)

- Note :
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 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g.Co, Cr).
 5. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

5) The seven (7) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
2-ethoxyethylacetate	111-15-9	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
hydrazine	7803-57-8 302-01-2	%	0.05	N.D.	CMR (carcinogen, cat. 2)
1-methyl-2-pyrrolidone	872-50-4	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)

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1,2,3-trichloropropane	96-18-4	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
Strontium chromate *	7789-06-2	%	0.05	N.D.	CMR (carcinogen, cat. 2)

- Note :
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N.A.=Not applicable
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 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g. B, Cr).
 5. Δ The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

6) The twenty (20) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 Δ	
1,2-Dichloroethane	107-06-2	%	0.050	N.D.	carcinogenic
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	%	0.050	N.D.	carcinogenic
2-Methoxyaniline o-Anisidine	90-04-0	%	0.050	N.D.	carcinogenic
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	%	0.050	N.D.	equivalent level of concern
Aluminosilicate Refractory Ceramic Fibres(RCF)*	--	%	0.005	N.D.	carcinogenic

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Arsenic acid*	7778-39-4	%	0.005	N.D.	carcinogenic
Bis(2-methoxyethyl) ether	111-96-6	%	0.050	N.D.	toxic for reproduction
Bis(2-methoxyethyl) phthalate	117-82-8	%	0.050	N.D.	toxic for reproduction
Calcium arsenate*	7778-44-1	%	0.005	N.D.	carcinogenic
Dichromium tris(chromate) *	24613-89-6	%	0.005	N.D.	carcinogenic
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	%	0.050	N.D.	carcinogenic
Lead diazide*	13424-46-9	%	0.005	N.D.	toxic for reproduction
Lead dipicrate*	6477-64-1	%	0.005	N.D.	toxic for reproduction
Lead styphnate*	15245-44-0	%	0.005	N.D.	toxic for reproduction
N,N-dimethylacetamide (DMAC)	127-19-5	%	0.050	N.D.	toxic for reproduction
Pentazinc chromate octahydroxide*	49663-84-5	%	0.005	N.D.	carcinogenic
Phenolphthalein	77-09-8	%	0.050	N.D.	carcinogenic
Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	%	0.005	N.D.	carcinogenic
Trilead diarsenate*	3687-31-8	%	0.005	N.D.	carcinogenic & toxic for reproduction
Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)*	--	%	0.005	N.D.	carcinogenic

Note : 1. N.D. = not detected (less than MQL)
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2. 1mg/kg=1ppm=0.0001%
3. MQL=Method Quantitation Limit

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4. *The Substances are tested in term of their respective elements (e.g. As,Pb,Cr,Al,Ca,K,Zr).
5. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

7) The thirteen (13) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
1,2-bis(2methoxy-ethoxy) ethane (TEGDME; triglyme)	112-49-2	%	0.050	N.D.	CMR
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	%	0.050	N.D.	CMR
4,4'-bis(dimethylamino)-4''(methyl-amino)trityl alcohol (C.I. Solvent Violet 8)	561-41-1	%	0.005	N.D.	CMR
4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	%	0.050	N.D.	CMR
4-[4,4'-bis(dimethyl-amino) benzhydrylidene]cyclohexa-2,5-dien- 1-ylidene]dimethyl ammonium chloride (C.I. Basic Violet 3)	548-62-9	%	0.005	N.D.	CMR
[4-[[4-anilino-1-naphthyl] [4(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1ylidene] dimethyl ammonium chloride (C.I. Basic Blue 26)	2580-56-5	%	0.005	N.D.	CMR
N,N,N',N'-tetramethyl-4,4'methylenedianiline (Michler's base)	101-61-1	%	0.005	N.D.	CMR
α,α-Bis[4(dimethylamino) phenyl]-4-(phenylamino)	6786-83-0	%	0.005	N.D.	CMR

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naphthalene1-methanol (C.I. Solvent Blue 4)					
Diboron trioxide*	1303-86-2	%	0.050	N.D.	CMR
Formamide	75-12-7	%	0.005	N.D.	CMR
Lead(II) bis(methanesulfonate) *	17570-76-2	%	0.050	N.D.	CMR
TGIC (1,3,5tris(oxiranyl methyl)-1,3,5triazine- 2,4,6(1H,3H,5H)trione)	2451-62-9	%	0.050	N.D.	CMR
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	%	0.050	N.D.	CMR

- Note :
1. N.D. = not detected (less than MQL)
N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g. Pb,B).
 5. △The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

Test Part Description :

No.1 : PVC card/Black line(mixed)

2.2.2 RoHS Content

Test Item(s)	Test Method	Test Instrument
Lead (Pb)	With reference to IEC 62321:2008	ICP-AES
Cadmium (Cd)	With reference to IEC 62321:2008	ICP-AES
Mercury (Hg)	With reference to IEC 62321:2008	ICP-AES
Chromium VI (Cr VI)	With reference to IEC 62321:2008	UV-Vis

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TEST REPORT

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Test Item(s)	Unit	Limit	MDL	Result
Lead (Pb)	mg/kg	1000	2	57
Cadmium (Cd)	mg/kg	100	2	3
Mercury (Hg)	mg/kg	1000	2	N.D.
Chromium VI (CrVI) by boiling water extraction	* *	#	See Note 6	Negative

- Note** :
1. Specimens, which requested to determine Cadmium, Mercury and Lead content, have been dissolved completely.
 2. N.D. = not detected (less than MDL)
 3. MDL= Method Detect Limit
 4. 1 mg/kg=1 ppm=0.0001%
 5. * * = Qualitative analysis (No Unit)
 6. **Spot –test:**
 Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
 (The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed)
Boiling-water-extraction:
 Negative = Absence of CrVI coating
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50cm² sample surface area.
 7. # = Not regulated
 Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.
 Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

Test Part Description :

No.1 : Silvery metal

Written by:

Amanda

Inspected

Annie

Approved by:

lyt

*** End of Report ***



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3 Sample Reference Photo



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