



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

Test Report Number : CGZ3110627-02075-C

CTS (Guangzhou) 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 : ROOM 6, 7/F., FONDA INDUSTRIAL BUILDING, 37-39 AU PUI
WAN STREET, FO TAN, N.T., HONG KONG
Contact : Simon Yeung
Telephone : +852-31161173
Fax : +852-30115558
Mobile telephone : +852-92001448
Email : simonyeung@pro-a.com.hk

1.2 Manufacturer & Buyer

Manufacturer name : PRO-A INNOVATION LIMITED
Address : ROOM 6, 7/F., FONDA INDUSTRIAL BUILDING, 37-39 AU PUI
WAN STREET, FO TAN, N.T., HONG KONG
Contact : Simon Yeung
Telephone : +852-31161173
Fax : +852-30115558
Mobile telephone : +852-92001448
Email : simonyeung@pro-a.com.hk
Buyer name : /

1.3 Description of the Test Item

Sample name : PVC Card
Model No. : /
Brand name : /
Condition of sample(s) : EFFECTIVE

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2 Test Results

2.1 General Information

2.1.1 Sample Receiving Date

May 27, 2011

2.1.2 Testing Period

May 27, 2011 to Jul. 5, 2011

2.1.3 Test Requested

- 1-1) 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.
- 1-2) 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 fifteen (15) Substances of Very High Concern (SVHC) content in the submitted sample.
- 1-3) 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.
- 1-4) As specified by applicant, based on the list of the fourth published by European chemicals agency (ECHA) on December 2010 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.
- 1-5) 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.
- 2) As specified by applicant, to determine the Lead and Cadmium content in the submitted sample in accordance with California Proposition 65.
- 3) As specified by applicant, to determine the Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted sample in accordance with Directive 94/62/EC.

2.1.4 Test Method

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

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- 1-4) Test Method: With refer to US EPA 3051A, US EPA3052, US EPA8270D.
 Test Instrument: ICP/OES, GC/MS.
- 1-5) Test Method: With refer to US EPA 3051A, US EPA3052, US EPA8270D.
 Test Instrument: ICP/OES, GC/MS, HPLC.
- 2) With reference to US EPA3050B and EN1122:2001B.
- 3) Wet acid digestion and EPA3060.
 Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer and UV-VIS Spectrophotometer.

2.2 Results

2.2.1 SVHC Content

According to the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s)

- 1) The fifteen (15) Substances of Very High Concern (SVHC) content.

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	0.070	CMR
Hexabromocyclododecane (HBCDD)	25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	%	0.005	N.D.	PBT

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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

- Note :
1. N.D. = not detected (less than MQL)
 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 fifteen (15) Substances of Very High Concern (SVHC) content.

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Anthracene oil(**)	090640-80-5	%	0.05	N.D.	PBT
Anthracene oil, anthracene paste, distn. Lights(**)	091995-17-4	%	0.05	N.D.	PBT
Anthracene oil, anthracene paste, anthracene fraction(**)	091995-15-2	%	0.05	N.D.	PBT
Anthracene oil, anthracene-low(**)	090640-82-7	%	0.05	N.D.	PBT
Anthracene oil, anthracene paste(**)	090640-81-6	%	0.05	N.D.	PBT
Pitch, coal tar, high-temp.(**)	065996-93-2	%	0.05	N.D.	PBT
Aluminosilicate, Refractory Ceramic Fibres	--	%	0.05	N.D.	Carcinogen Category 2
Zirconia Aluminosilicate, Refractory Ceramic Fibres	--	%	0.05	N.D.	Carcinogen Category 2

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DIBP (Di-isobutyl phthalate)	000084-69-5	%	0.005	N.D.	Toxic to Reproduction Category 2
2,4-Dinitrotoluene	000121-14-2	%	0.005	N.D.	Carcinogen Category 2
Tris(2-chloroethyl) phosphate (TCEP)	000115-96-8	%	0.005	N.D.	Toxic to Reproduction Category 2
Lead chromate	007758-97-6	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1
Lead chromate molybdate sulphate red(C.I. Pigment Red 104)	012656-85-8	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	001344-37-2	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1
Acrylamide	000079-06-1	%	0.01	N.D.	Carcinogen Category2; Mutagen Category 2

- Note :
1. N.D. = not detected (less than MQL)
 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.

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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
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)
 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.

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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)
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 : 1. N.D. = not detected (less than MQL)
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3. MQL=Method Quantitation Limit

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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)
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 : 1. N.D. = not detected (less than MQL)
 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. 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.

2.2.2 Lead and Cadmium Content

Test Item(s)	Unit	Permissible Limit	Result		
			No.4	No.5	No.6
Lead (Pb)	mg/kg	200	9	9	N.D.
Cadmium (Cd)	mg/kg	Absent	N.D.	2	N.D.

- Note :
1. Specimens, which requested to determine Lead Content, have been dissolved completely.
 2. N.D. = not detected (less than MDL)
 3. 1mg/kg=1ppm=0.0001%

2.2.3 Lead, Cadmium, Mercury and Hexavalent Chromium Content

When tested as specified, the submitted sample complied with the requirement of the Directive 94/62/EC.

Test Item(s)	Unit	Result	
		No.2	No.3
Lead (Pb)	mg/kg	4	6
Cadmium (Cd)	mg/kg	<2	<2
Mercury (Hg)	mg/kg	<2	<2
Chromium VI (CrVI)	mg/kg	<2	<2
Total [Pb+ Cd+ Hg+(CrVI)]	mg/kg	<10	<12
limit [Pb+ Cd+ Hg+(CrVI)]	mg/kg	100	100

- Note :
1. Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.
 2. <= less than
 3. 1mg/kg=1ppm=0.0001%

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Test Part Description :

- No.1 : White paper box / Semitransparent plastic film / Transparent plastic bag / White PVC card with multicolored coating (mixed)
- No.2 : White paper box
- No.3 : Transparent plastic bag
- No.4 : White PVC card
- No.5 : Multicolored coating
- No.6 : Semitransparent plastic film

Written by:

Mili

Inspected by:

Annie

Approved by:

hyt

End of Report



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3 Sample Reference Photo



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