



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

Test Report Number : CGZ3120320-00783-C



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

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1 General Information

1.1 Application Details

Name : LeiMei Acrylic (Dongguan) Co., Ltd.
Address : No.5 Long Tian Road, Gaoli Industrial Zone, Tangxia, Dongguan, Guangdong Province, China
Contact : /
Telephone : +86-769-87885398
Fax : +86-769-87885998
Mobile telephone : /
Email : postmaster@leimei.com.cn

1.2 Manufacturer & Buyer

Manufacturer name : LeiMei Acrylic (Dongguan) Co., Ltd.
Address : No.5 Long Tian Road, Gaoli Industrial Zone, Tangxia, Dongguan, Guangdong Province, China
Contact : /
Telephone : +86-769-87885398
Fax : +86-769-87885998
Mobile telephone : /
Email : postmaster@leimei.com.cn
Buyer name : /

1.3 Description of the Test Item

Sample name : Acrylic Sheet
Model No. : PT000
Brand name : PT GLAS
Condition of sample(s) : EFFECTIVE

2 Test Results

2.1 General Information

2.1.1 Sample Receiving Date

Mar. 20, 2012

2.1.2 Testing Period

Mar. 20, 2012 to Mar. 28, 2012

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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 fifteen (15) 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.

2.1.4 Test Method and Test Instrument

- 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.
- 3-6) Test Method: With refer to US EPA 3051A, US EPA3052, US EPA8270D.
Test Instrument: ICP/OES, GC/MS, HPLC.

2.1.5 Conclusion

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



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2.2 Results

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	N.D.	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

- 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).

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5. #The Substances are tested in term of hexavalent chromium, Cr(VI).

2) The fifteen (15) 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
Aluminosilicate, Refractory Ceramic Fibres	--	%	0.05	N.D.	Carcinogen Category 2
Zirconia Aluminosilicate, Refractory Ceramic Fibres	--	%	0.05	N.D.	Carcinogen Category 2
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
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)
 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.

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

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- 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).

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)

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- 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.Co, Cr).
 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)

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4. *The Substances are tested in term of their respective elements (e.g. B, Cr).

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

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1	
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
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

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Pentazinc chromate octahydroxide*	49663-84-5	%	0.005	N.D.	carcinogenic
Phenolphthalein	77-09-8	%	0.050	N.D.	carcinogenic
Potassium hydroxyoctaoxodizinc tedichromate*	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)
 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,Cr,Al,Ca,K,Zr).

Test Part Description :

No.1 : Transparent acrylic sheet

Written by: *Amanda* Inspected by: *Annie* Approved by: *hyt*

*** End of Report ***

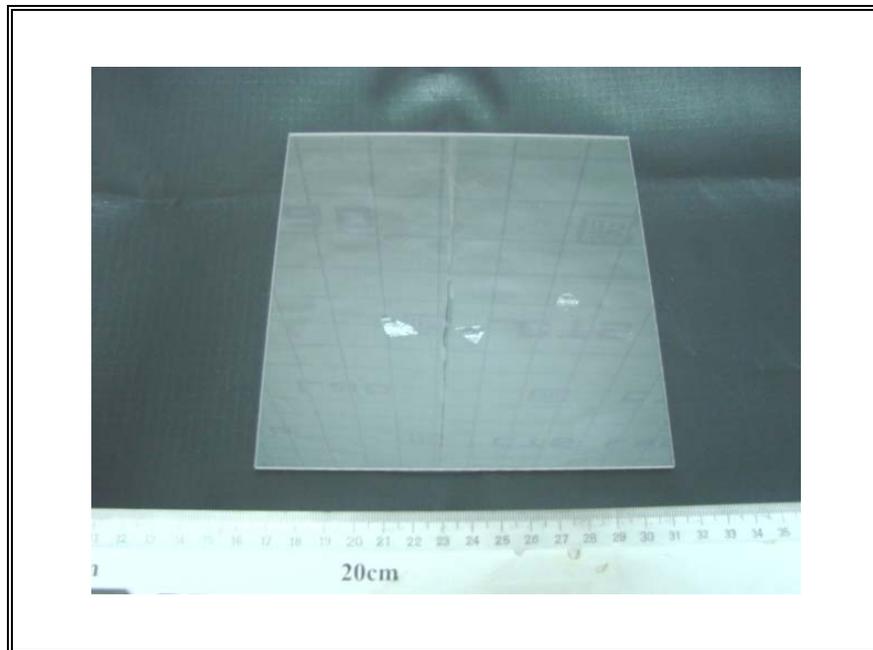


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3 Sample Reference Photo



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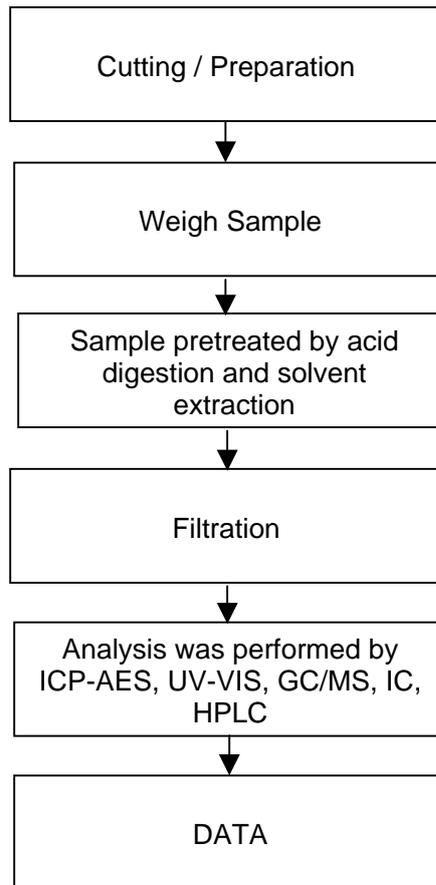


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4 Attachment

Analytical flow chart of SVHC



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