

TEST REPORT

Report No	TLR/PIG/375.856251.11/17		
Name Of Client	BEST CHEM CO.,LTD.		
Address Of Client	NO. 15, LANE 192, SEC 2, NANSHAN LUJHU TOWNSHIP-338, TAOYUAN COUNTRY, TAIWAN		
Reference No	CU MUM 75698/ 2017 / PRJ-856251		
Name Of Product	PRC5160/5260/5260HC		
Sample Received On	16-11-17	Report Issued On	06-12-17

1) Test for the detection of Extractable Heavy Metals: EPA 3050 B (Acid Digestion)
Ref: ISO 17072-2:2011

Results:

Sr. No.	Name of Heavy Metals	Detection Limit (In ppm)	Results (In ppm)
1	Arsenic (As)	0.002	Not detected
2	Lead (Pb)	0.5	Not detected
3	Cadmium (Cd)	0.1	Not detected
4	Mercury (Hg)	0.001	Not detected
5	Copper (Cu)	0.5	32889.0
6	Cobalt (Co)	1.0	Not detected
7	Nickel (Ni)	0.5	Not detected
8	Chromium (Cr)	0.5	Not detected
9	Antimony (Sb)	1.0	Not detected
10	Tin (Sn)	10	Not detected
11	Zinc (Zn)	0.05	Not detected
12	Barium (Ba)	1.0	Not detected
13	Iron (Fe)	0.5	117.0
14	Manganese (Mn)	0.5	Not detected
15	Selenium (Se)	1.0	Not detected
16	Silver (Ag)	1.0	Not detected



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2) Test for detection of Banned Amines: (Amines-Releasing Azo dyes MAK III, Category 1,2,3)

For Textiles : § 35 LMBG B 82-02-2/EN 14362-1 : 2012 Aniline (MAK III, Category 4)

For 4 Aminoazobenzene : § 35 LMBG B 82-02-2/EN 14362-3 : 2012

(Method of analysis: EN 14362- 1:2012)(Detection Limit- 5 mg/kg)

Sr. No.	Amines tested	CAS Number	Result
1	4-Aminobiphenyl	92-67-1	Not Detected
2	Benzidine	92-87-5	Not Detected
3	4-Chloro-o-toluidine	95-69-2	Not Detected
4	2-naphthylamine	91-59-8	Not Detected
*5	o-Aminoazotoluene	97-56-3	Not Detected
*6	2-Amino-4-nitrotoluene	99-55-8	Not Detected
7	p-Chloroaniline	106-47-8	Not Detected
8	2,4-Diaminoanisole	615-05-4	Not Detected
9	4,4'-Diaminobiphenylmethane	101-77-9	Not Detected
10	3,3'-Dichlorobenzidine	91-94-1	Not Detected
11	3,3'- Dimethoxybenzidine	119-90-4	Not Detected
12	3,3'- Dimethylbenzidine	119-93-7	Not Detected
13	3,3'-Dimethyl-4,4'-Diaminobiphenylmethane	838-88-0	Not Detected
14	p-Cresidin	120-71-8	Not Detected
15	4,4'-Methylene-bis-(2 chloroaniline)	101-14-4	Not Detected
16	4,4'-Oxydianiline	101-80-4	Not Detected
17	4,4'-Thiodianiline	139-65-1	Not Detected
18	O-Toluidine	95-53-4	Not Detected
19	2,4-Toluyldiamine	95-80-7	Not Detected

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20	2,4,5 Trimethylaniline	137-17-7	Not Detected
21	o-Anisidine	90-04-0	Not Detected
**22	4-Aminoazobenzene	60-09-3	Not Detected
23	2,4 – Xylidine	95-68-1	Not Detected
24	2,6-Xylidine	87-62-7	Not Detected
25	5-Chloro-2-methylaniline	95-79-4	Not Detected
26	p-phenylenediamine	106-50-3	Not Detected
27	N,N-Diamethylaniline	121-69-7	Not Detected
28	Aniline	62-53-3	Not Detected

*O-Aminoazotoluene & 2-Amino-4-nitrotoluene forms O-Toluidine & 2,4 Toluylendiamine respectively under test conditions.

** Azo colorants that are able to form 4-Aminoazobenzene, generate under the condition of this method aniline (CAS-number 62-53-3) & 1,4-phenylenediamine (CAS-number 106-50-3).Due to detection limits, only aniline may be detected. The presence of these colorants should be tested by EN 14362-3.

3) Test for the Presence of Alkyl phenol (Ethoxylates) APEO:

For NP, OP, NPEO & OPEO: Extraction, derivatisation, HPLC/MS (Test Method based on TTI-A 043)
(Method detection limit: 5.0 mg/kg)

Results: Nonyl Phenol Ethoxylates(NPEOs): **Not Detected**

Octyl Phenol Ethoxylates (OPEOs): **Not Detected**

Nonyl Phenol (NP): **Not Detected**

Octyl Phenol (OP): **Not Detected**



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4) **Free Formaldehyde:** (Test method: Water extraction method: By ISO 14184-1: 2011)

Detection limit: 5 mg/kg

Results: Not Detected

5) **Determination of Permanent Adsorbable Organically Bound Halogens (AOX):**

Extraction with boiling water, adsorption on charcoal; Ref. ISO 9562 : 2004

(Detection Limit: 0.1 mg/kg)

Result: 2.37 mg/kg

6) **Test for the detection of Phthalates :** (DIN EN 15777:2009-12)

Solvent extraction - Analysis by GCMS

Results:

Sr. No.	Name of Phthalates	Detection Limit (In mg/kg)	Results (In ppm)
1	Di-isononyl Phthalates (DINP)	5.0	Not detected
2	Di-n-Octyl Phthalate (DNOP)	5.0	Not detected
3	Di-2-Ethyl Hexyl Phthalate (DEHP)	5.0	Not detected
4	Diisodecyl Phthalate (DIDP)	5.0	Not detected
5	Butyl benzyl Phthalate (BBP)	5.0	Not detected
6	Dibutyl Phthalate (DBP)	5.0	Not detected
7	Di-isobutyl Phthalate (DIBP)	5.0	Not detected
8	Bis(2-Methoxyethyl) Phthalate (DMEP)	5.0	Not detected
9	Di-(2-Methoxyethyl) Phthalate (DMEP)	5.0	Not detected
10	Di-n- hexyl Phthalate (DnHP)	5.0	Not detected
11	Di-hexyl Phthalate, branched and linear, DHxP	5.0	Not detected
12	Di-pentylphthalate (n-, iso-, or mixed),DPP	5.0	Not detected



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13	1,2 –Benzene dicarboxylic acid, di(C7-11)-branced and linear alkyl esters (DHNUP)	5.0	Not detected
14	Di-n-propyl phthalate (DPrP)	5.0	Not detected
15	Di-ethyl phthalate(DEP)	5.0	Not detected
16	Dinonyl phthalate (DNP)	5.0	Not detected
17	Di-n-hexyl phthalate (DHP)	5.0	Not detected
18	Dicyclohexyl phthalate(DCHP)	5.0	Not detected

NOTE: Tested sample not drawn by the laboratory.
Submitted sample is subcontracted to approved lab for testing.


AUTHORISED SIGNATORY
(Ms. Vrushali Khandeparkar)