



TEST REPORT

NUMBER: 130313004SHJ-BP-2

Report from Intertek Testing Services Ltd., Shanghai Jinqiao Branch

APPLICANT: JIANGYIN TIANHONG DECORATION MATERIAL
CO.,LTD
HUASHI INDUSTRIAL ZONE,JIANGYIN CITY,
JIANGSU, CHINA

DATE: November 29, 2013

SAMPLE DESCRIPTION:

THE SUBMITTED SAMPLES SAID TO BE ALUMINUM COMPOSITE PANEL.
ITEM NAME : COATING ON ALUMINUM COMPOSITE PANEL
MODEL NO. : /
SIZE OF PRODUCT : /

PICUTES OF SAMPLE ARE REFERRED TO APPENDIX A.

THE TEST DATA WAS ORIGINATED FROM THE REPORT NO.130313004SHJ-BP-1 WHICH WAS ISSUED ON
MARCH 26, 2013.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

TO BE CONTINUED

AUTHORIZED BY:
FOR Intertek Testing Services
Ltd., Shanghai Jinqiao Branch

Jensen Xu
PROJECT ENGINEER



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TESTS CONDUCTED

1 REACH REQUIREMENTS (SUBSTANCE OF VERY HIGH CONCERN (SVHC))

TEST RESULTS

<u>CHEMICAL SUBSTANCE</u>	<u>EC NO.</u>	<u>CAS NO.</u>	<u>RESULTS % (W/W)</u>
Cobalt Dichloride *	231-589-4	7646-79-9	<0.05
Diarsenic Pentaoxide *	215-116-9	1303-28-2	<0.05
Diarsenic Trioxide *	215-481-4	1327-53-3	<0.05
Lead Hydrogen Arsenate *	232-064-2	7784-40-9	<0.05
Triethyl Arsenate *	427-700-2	15606-95-8	<0.05
Sodium Dichromate *	234-190-3	7789-12-0, 10588-01-9	<0.05
Bis (Tributyltin) Oxide (TBTO) *	200-268-0	56-35-9	<0.05
Anthracene	204-371-1	120-12-7	<0.05
4,4'-Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	<0.05
Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α -HBCDD, β -HBCDD, γ -HBCDD)	247-148-4 221-695-9	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	<0.05
5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	201-329-4	81-15-2	<0.05
Bis (2-Ethylhexyl) Phthalate (DEHP)	204-211-0	117-81-7	<0.05
Dibutyl Phthalate (DBP)	201-557-4	84-74-2	<0.05
Benzyl Butyl Phthalate (BBP)	201-622-7	85-68-7	<0.05
Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	287-476-5	85535-84-8	0.16
Lead Chromate *	231-846-0	7758-97-6	<0.05
Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) *	235-759-9	12656-85-8	<0.05
Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) *	215-693-7	1344-37-2	<0.05
Tris (2-Chloroethyl) Phosphate	204-118-5	115-96-8	<0.05
2,4-Dinitrotoluene	204-450-0	121-14-2	<0.05
Diisobutyl Phthalate (DIBP)	201-553-2	84-69-5	<0.05
Coal Tar Pitch, High Temperature	266-028-2	65996-93-2	<0.05

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Anthracene Oil	292-602-7	90640-80-5	<0.05
Anthracene Oil, Anthracene Paste, Distn. Lights	295-278-5	91995-17-4	<0.05
Anthracene Oil, Anthracene Paste, Anthracene Fraction	295-275-9	91995-15-2	<0.05
Anthracene Oil, Anthracene-low	292-604-8	90640-82-7	<0.05
Anthracene Oil, Anthracene Paste	292-603-2	90640-81-6	<0.05
Acrylamide	201-173-7	79-06-1	<0.05
Boric Acid *	233-139-2/ 234-343-4	10043-35-3, 11113-50-1	<0.05
Disodium Tetraborate, Anhydrous *	215-540-4	1330-43-4, 12179-04-3, 1303-96-4	<0.05
Tetraboron Disodium Heptaoxide, Hydrate *	235-541-3	12267-73-1	<0.05
Sodium Chromate *	231-889-5	7775-11-3	<0.05
Potassium Chromate *	232-140-5	7789-00-6	<0.05
Ammonium Dichromate *	232-143-1	7789-09-5	<0.05
Potassium Dichromate *	231-906-6	7778-50-9	<0.05
Trichloroethylene	201-167-4	79-01-6	<0.05
2-Methoxyethanol	203-713-7	109-86-4	<0.05
2-Ethoxyethanol	203-804-1	110-80-5	<0.05
Cobalt Sulphate *	233-334-2	10124-43-3	<0.05
Cobalt Dinitrate *	233-402-1	10141-05-6	<0.05
Cobalt Carbonate *	208-169-4	513-79-1	<0.05
Cobalt Diacetate *	200-755-8	71-48-7	<0.05
Chromium Trioxide *	215-607-8	1333-82-0	<0.05
Chromic Acid * Dichromic Acid * Oligomers of Chromic Acid and Dichromic Acid *	231-801-5 236-881-5	7738-94-5 13530-68-2 --	<0.05
Strontium Chromate*	232-142-6	7789-06-2	<0.05
2-ethoxyethyl acetate (2-EEA)	203-839-2	111-15-9	<0.05



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1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUP)	271-084-6	68515-42-4	<0.05
Hydrazine	206-114-9	7803-57-8 302-01-2	<0.05
1-methyl-2-pyrrolidone	212-828-1	872-50-4	<0.05
1,2,3-trichloropropane	202-486-1	96-18-4	<0.05
1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)	276-158-1	71888-89-6	<0.05
Lead dipicrate*	229-335-2	6477-64-1	<0.05
Lead styphnate*	239-290-0	15245-44-0	<0.05
Lead azide; Lead diazide*	236-542-1	13424-46-9	<0.05
Phenolphthalein	201-004-7	77-09-8	<0.05
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	<0.05
N,N-dimethylacetamide (DMAC)	204-826-4	127-19-5	<0.05
Trilead diarsenate*	222-979-5	3687-31-8	<0.05
Calcium arsenate*	231-904-5	7778-44-1	<0.05
Arsenic acid*	231-901-9	7778-39-4	<0.05
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	<0.05
1,2-Dichloroethane	203-458-1	107-06-2	<0.05
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	205-426-2	140-66-9	<0.05
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	<0.05
Bis(2-methoxyethyl) phthalate (DMEP)	204-212-6	117-82-8	<0.05
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4	<0.05
Pentazinc chromate octahydroxide*	256-418-0	49663-84-5	<0.05
Potassium hydroxyoctaoxodizincate dichromate*	234-329-8	11103-86-9	<0.05

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Dichromium tris(chromate) *	246-356-2	24613-89-6	<0.05
Aluminosilicate Refractory Ceramic Fibres *	Extracted from index no. 650-017-00-8	(Index No. 650-017-00-8)	<0.05
Zirconia Aluminosilicate Refractory Ceramic Fibres *	Extracted from index no. 650-017-00-8	(Index No. 650-017-00-8)	<0.05
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	<0.05
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	<0.05
Diboron trioxide*	215-125-8	1303-86-2	<0.05
Formamide	200-842-0	1975-12-7	<0.05
Lead(II) bis(methanesulfonate) *	401-750-5	17570-76-2	<0.05
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	219-514-3	2451-62-9	<0.05
β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	423-400-0	59653-74-6	<0.05
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	<0.05
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	<0.05
[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)]	208-953-6	548-62-9	<0.05

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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	-	-	<0.05
Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	<0.05
Cyclohexane-1,2-dicarboxylic anhydride [1] Cis-cyclohexane-1,2-dicarboxylic anhydride [2] Trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	<0.05
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	<0.05
Methoxy acetic acid	210-894-6	625-45-6	<0.05
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	<0.05
Diisopentylphthalate (DIPP)	210-088-4	605-50-5	<0.05
N-pentyl-isopentylphthalate	-	776297-69-9	<0.05

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1,2-Diethoxyethane	211-076-1	629-14-1	<0.05
N,N-dimethylformamide	200-679-5	68-12-2	<0.05
Dibutyltin dichloride (DBTC)*	211-670-0	683-18-1	<0.05
Acetic acid, lead salt, basic*	257-175-3	51404-69-4	<0.05
trilead bis(carbonate) dihydroxide*	215-290-6	1319-46-6	<0.05
Lead oxide sulfate*	234-853-7	12036-76-9	<0.05
[Phthalato(2-)]dioxotrilead *	273-688-5	69011-06-9	<0.05
Dioxobis(stearato)trilead*	235-702-8	12578-12-0	<0.05
Fatty acids, C16-18, lead salts*	292-966-7	91031-62-8	<0.05
Lead bis(tetrafluoroborate)*	237-486-0	13814-96-5	<0.05
Lead cyanamidate*	244-073-9	20837-86-9	<0.05
Lead dinitrate*	233-245-9	10099-74-8	<0.05
Lead monoxide (lead oxide)*	215-267-0	1317-36-8	<0.05
Orange lead (lead tetroxide)*	215-235-6	1314-41-6	<0.05
Lead titanium trioxide*	235-038-9	12060-00-3	<0.05
Lead titanium zirconium oxide*	235-727-4	12626-81-2	<0.05
Pentalead tetraoxide sulphate*	235-067-7	12065-90-6	<0.05
Pyrochlore, antimony lead yellow*	232-382-1	8012-00-8	<0.05
Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead- doped* [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	272-271-5	68784-75-8	<0.05



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Silicic acid, lead salt*	234-363-3	11120-22-2	<0.05
Sulfurous acid, lead salt, dibasic*	263-467-1	62229-08-7	<0.05
Tetraethyllead*	201-075-4	78-00-2	<0.05
Tetralead trioxide sulphate*	235-380-9	12202-17-4	<0.05
Trilead dioxide phosphonate*	235-252-2	12141-20-7	<0.05
Furan	203-727-3	110-00-9	<0.05
Methyloxirane (propylene oxide)	200-879-2	75-56-9	<0.05
Diethyl sulphate	200-589-6	64-67-5	<0.05
Dimethyl sulphate	201-058-1	77-78-1	<0.05
3-ethyl-2-methyl-2-(3- methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	<0.05
Dinoseb (6-sec-butyl-2,4- dinitrophenol)	201-861-7	88-85-7	<0.05
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	<0.05
4,4'-oxydianiline and its salts	202-977-0	101-80-4	<0.05
4-Aminoazobenzene	200-453-6	60-9-3	<0.05
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	<0.05
6-methoxy-m-toluidine (p- cresidine)	204-419-1	120-71-8	<0.05
Biphenyl-4-ylamine	202-177-1	92-67-1	<0.05
o-aminoazotoluene	202-591-2	97-56-3	<0.05
o-Toluidine	202-429-0	95-53-4	<0.05
N-methylacetamide	201-182-6	79-16-3	<0.05
1-bromopropane; n-propyl bromide	203-445-0	106-94-5	<0.05

Remarks: SVHC = Substance of Very High Concern

* = Determination was based on elemental analysis

Materials were screened in composite and results were reported in proportion with the whole product weight.

TO BE CONTINUED



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REACH Requirement: As per Article 33(1) of the REACH Regulation (EC1907/2006), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1%(w/w). A product meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1%(w/w).

Summary:

According to specified test processes in this report, content of 138 Substances of Very High Concern (SVHC) in candidate list promulgated by European Chemicals Agency (ECHA), which are defined in article 57 of Regulation (EC) No. 1907/2006 (REACH Regulation), are less than 0.1% (w/w) with the exception of "Short Chain Chlorinated Paraffins (C10-13)" in submitted sample.

TO BE CONTINUED



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APPENDIX A PIXUTRES OF PROUDCT



Fig.1 Front view of panel

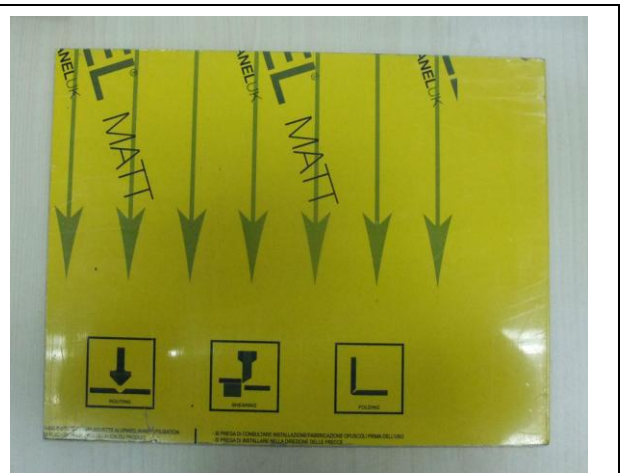


Fig.2 Back view of panel

END OF REPORT