



TEST REPORT

Page 1 of 12

Report Number: 64413-02371

LAB LOCATION:

SHANGHAI

REPORT NUMBER:

64413-02371

DATE IN:


May 29, 2013

DATE OUT:

Jun 03, 2013

Applicant:	QINGDAO YIHE PACKING PRODUCTS MANUFACTURER		
Address:	NO.118, YINGPU ROAD, BEI'AN AREA, JIMO, QINGDAO CHINA		
Contact:	Cui Feifei		
TEL :	0532-83533777-8302	FAX:	0532-83533628
E-mail:	cuifeifei@nonwovenchina.com		
Copy To:	/		

Sample Information

 64413-02371	Sample Description:	PP NONWOVEN FABRIC
	Item/ Style Number:	/
	Purchase Order Number:	/
	No. of Sample Submitted:	/
	Age grade:	/
	Country of Origin:	/
	Country of Destination:	/
	Vendor/ Agent:	/
	Manufacturer:	/

TEST RESULT SUMMARY

Test Requested	Results
138 Substances of Very High Concern (SVHC) Test based on the SVHC Candidate List published by European Chemicals Agency (ECHA) on December 19, 2012, regarding Regulation (EC) no 1907/ 2006 concerning the REACH	PASS

For and on behalf of

Modern Testing Services Co., Ltd.

Zhang, Xiu Jie Eddie
Deputy Regional Director,
Analytical Division

This Test Report is used by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification and jurisdictional issue defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the company.

Modern Testing Services Co., Ltd.

No. 105 Guangzhong Rd., Zhuangqiao Town, Minhang, Shanghai, China P.R.C.201108
Tel: (86) 21-64892468 Fax: (86) 21-64423289 Email: info@mts-global.com Website : www.mts-global.com

TEST SUMMARY:

COMPONENT BREAKDOWN LIST:

Test Item	Component Description	Weight Proportion (%)
A	White non-woven fabric (PP nonwoven fabric)	-

TEST RESULT:

138 Substances of Very High Concern (SVHC) Test based on the SVHC Candidate List published by European Chemicals Agency (ECHA) on December 19, 2012, regarding Regulation (EC) no 1907/ 2006 concerning the REACH

	Substance Name	CAS No.	EC No.	Unit	Result	Limit
					A	
1	*Triethyl arsenate	15606-95-8	427-700-2	%	<0.05	0.1
2	*Diarsenic pentaoxide	1303-28-2	215-116-9	%	<0.05	0.1
3	*Diarsenic trioxide	1327-53-3	215-481-4	%	<0.05	0.1
4	*Cobalt dichloride	7646-79-9	231-589-4	%	<0.05	0.1
5	*Sodium dichromate	7789-12-0 10588-01-9	234-190-3	%	<0.05	0.1
6	*Lead hydrogen arsenate	7784-40-9	232-064-2	%	<0.05	0.1
7	Dibutyl phthalate (DBP)	84-74-2	201-557-4	%	<0.05	0.1
8	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	%	<0.05	0.1
9	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	%	<0.05	0.1
10	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	%	<0.05	0.1
11	Anthracene	120-12-7	204-371-1	%	<0.05	0.1
12	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	%	<0.05	0.1

13	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	3194-55-6 25637-99-4 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4 and 221-695-9	%	<0.05	0.1
14	# Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	%	<0.05	0.1
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	%	<0.05	0.1
16	2,4-Dinitrotoluene	121-14-2	204-450-0	%	<0.05	0.1
17	^a Anthracene oil	90640-80-5	292-602-7	%	<0.05	0.1
18	^a Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	%		0.1
19	^a Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	%		0.1
20	^a Anthracene oil, anthracene-low	90640-82-7	292-604-8	%		0.1
21	^a Anthracene oil, anthracene paste	90640-81-6	292-603-2	%		0.1
22	Diisobutyl phthalate	84-69-5	201-553-2	%	<0.05	0.1
23	*Lead Chromate	7758-97-6	231-846-0	%	<0.05	0.1
24	*Lead Chromate Molybdate Sulfate Red (C.I. Pigment Red 104)	12656-85-8	235-759-9	%	<0.05	0.1
25	*Lead Sulfochromate Yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	%	<0.05	0.1
26	Acrylamide	79-06-1	201-173-7	%	<0.05	0.1
27	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	%	<0.05	0.1
28	Coal tar pitch, high temperature	65996-93-2	266-028-2	%	<0.05	0.1
29	Trichloroethylene	79-01-6	201-167-4	%	<0.05	0.1

30	*Boric acid	10043-35-3 / 11113-50-1	233-139-2 / 234-343-4	%	<0.05	0.1
31	*Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4	%	<0.05	0.1
32	*Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	%	<0.05	0.1
33	*Sodium chromate	7775-11-3	231-889-5	%	<0.05	0.1
34	*Potassium chromate	7789-00-6	232-140-5	%	<0.05	0.1
35	*Ammonium dichromate	7789-09-5	232-143-1	%	<0.05	0.1
36	*Potassium dichromate	7778-50-9	231-906-6	%	<0.05	0.1
37	*Cobalt (II) sulphate	10124-43-3	233-334-2	%	<0.05	0.1
38	*Cobalt (II) dinitrate	10141-05-6	233-402-1	%	<0.05	0.1
39	*Cobalt (II) carbonate	513-79-1	208-169-4	%	<0.05	0.1
40	*Cobalt (II) diacetate	71-48-7	200-755-8	%	<0.05	0.1
41	2-Methoxyethanol	109-86-4	203-713-7	%	<0.05	0.1
42	2-Ethoxyethanol	110-80-5	203-804-1	%	<0.05	0.1
43	*Chromium trioxide	1333-82-0	215-607-8	%	<0.05	0.1
44	* Chromic acid, *Oligomers of chromic acid and dichromic acid, *Dichromic acid	7738-94-5 -- 13530-68-2	231-801-5 -- 236-881-5	%	<0.05	0.1
45	2-ethoxyethyl acetate	111-15-9	203-839-2	%	<0.05	0.1
46	*Strontium chromate	7789-06-2	232-142-6	%	<0.05	0.1

47	1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6	%	<0.05	0.1
48	Hydrazine	7803-57-8; 302-01-2	206-114-9	%	<0.05	0.1
49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	%	<0.05	0.1
50	1,2,3-trichloropropane	96-18-4	202-486-1	%	<0.05	0.1
51	1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1	%	<0.05	0.1
52	*Zirconia Aluminosilicate Refractory Ceramic Fibres	--	--	%	<0.05	0.1
53	*Calcium arsenate	7778-44-1	231-904-5	%	<0.05	0.1
54	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	%	<0.05	0.1
55	*Aluminosilicate Refractory Ceramic Fibres	--	--	%	<0.05	0.1
56	*Potassium hydroxyoctaoxodizincate dichromate	11103-86-9	234-329-8	%	<0.05	0.1
57	*Lead dipicrate	6477-64-1	229-335-2	%	<0.05	0.1
58	N,N-dimethylacetamide	127-19-5	204-826-4	%	<0.05	0.1
59	*Arsenic acid	7778-39-4	231-901-9	%	<0.05	0.1
60	2-Methoxyaniline / o-Anisidine	90-04-0	201-963-1	%	<0.05	0.1
61	*Trilead diarsenate	3687-31-8	222-979-5	%	<0.05	0.1
62	1,2-dichloroethane	107-06-2	203-458-1	%	<0.05	0.1

63	*Pentazinc chromate octahydroxide	49663-84-5	256-418-0	%	<0.05	0.1
64	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	%	<0.05	0.1
65	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	%	<0.05	0.1
66	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	%	<0.05	0.1
67	*Lead diazide, Lead azide	13424-46-9	236-542-1	%	<0.05	0.1
68	*Lead styphnate	15245-44-0	239-290-0	%	<0.05	0.1
69	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	%	<0.05	0.1
70	Phenolphthalein	77-09-8	201-004-7	%	<0.05	0.1
71	*Dichromium tris(chromate)	24613-89-6	246-356-2	%	<0.05	0.1
72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	%	<0.05	0.1
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	%	<0.05	0.1
74	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	%	<0.05	0.1
75	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	%	<0.05	0.1
76	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	%	<0.05	0.1

77	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylen e]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	%	<0.05	0.1
78	*Diboron trioxide	1303-86-2	215-125-8	%	<0.05	0.1
79	Formamide	75-12-7	200-842-0	%	<0.05	0.1
80	*Lead(II) bis(methane sulfonate)	17570-76-2	401-750-5	%	<0.05	0.1
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	%	<0.05	0.1
82	§TGIC (1,3,5-tris (oxiranylmethyl) -1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	219-514-3	%	<0.05	0.1
83	§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	423-400-0	%		0.1
84	α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	%	<0.05	0.1
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	%	<0.05	0.1
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	%	<0.05	0.1
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	%	<0.05	0.1
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	%	<0.05	0.1
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	%	<0.05	0.1
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	%	<0.05	0.1

91	Cyclohexane-1,2-dicarboxylic anhydride ^[1] cis-cyclohexane-1,2-dicarboxylic anhydride ^[2] trans-cyclohexane-1,2-dicarboxylic anhydride ^[3] <i>[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].</i>	85-42-7, 13149-00-3 , 14166-21-3	201-604-9, 236-086-3, 238-009-9	%	<0.05	0.1
92	Hexahydromethylphthalic anhydride ^[1] , Hexahydro-4-methylphthalic anhydride ^[2] , Hexahydro-1-methylphthalic anhydride ^[3] , Hexahydro-3-methylphthalic anhydride ^[4] <i>[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]</i>	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	%	<0.05	0.1
93	4-Nonylphenol, branched and linear <i>[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]</i>	--	--	%	<0.05	0.1
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	--	--	%	<0.05	0.1
95	Methoxyacetic acid	625-45-6	210-894-6	%	<0.05	0.1
96	N,N-dimethylformamide	68-12-2	200-679-5	%	<0.05	0.1
97	#Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	%	<0.05	0.1

98	*Lead monoxide (Lead oxide)	1317-36-8	215-267-0	%	<0.05	0.1
99	*Orange lead (Lead tetroxide)	1314-41-6	215-235-6	%	<0.05	0.1
100	*Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	%	<0.05	0.1
101	*Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	%	<0.05	0.1
102	*Lead titanium trioxide	12060-00-3	235-038-9	%	<0.05	0.1
103	*Lead titanium zirconium oxide	12626-81-2	235-727-4	%	<0.05	0.1
104	*Silicic acid, lead salt	11120-22-2	234-363-3	%	<0.05	0.1
105	*Silicic acid (H ₂ SiO 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]	68784-75-8	272-271-5	%	<0.05	0.1
106	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	%	<0.05	0.1
107	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	%	<0.05	0.1
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	%	<0.05	0.1
109	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	%	<0.05	0.1
110	N-pentyl-isopentylphthalate	776297-69-9	--	%	<0.05	0.1
111	1,2-diethoxyethane	629-14-1	211-076-1	%	<0.05	0.1
112	*Acetic acid, lead salt, basic	51404-69-4	257-175-3	%	<0.05	0.1

113	*Lead oxide sulfate	12036-76-9	234-853-7	%	<0.05	0.1
114	*[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	%	<0.05	0.1
115	*Dioxobis(stearato)trilead	12578-12-0	235-702-8	%	<0.05	0.1
116	*Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	%	<0.05	0.1
117	*Lead cyanamide	20837-86-9	244-073-9	%	<0.05	0.1
118	*Lead dinitrate	10099-74-8	233-245-9	%	<0.05	0.1
119	*Pentalead tetraoxide sulphate	12065-90-6	235-067-7	%	<0.05	0.1
120	*Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	%	<0.05	0.1
121	*Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	%	<0.05	0.1
122	*Tetraethyllead	78-00-2	201-075-4	%	<0.05	0.1
123	*Tetralead trioxide sulphate	12202-17-4	235-380-9	%	<0.05	0.1
124	*Trilead dioxide phosphonate	12141-20-7	235-252-2	%	<0.05	0.1
125	Furan	110-00-9	203-727-3	%	<0.05	0.1
126	Diethyl sulphate	64-67-5	200-589-6	%	<0.05	0.1
127	Dimethyl sulphate	77-78-1	201-058-1	%	<0.05	0.1
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	%	<0.05	0.1
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	%	<0.05	0.1
130	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	%	<0.05	0.1



TEST REPORT

Page 11 of 12
Report Number: 64413-02371

131	4,4'-oxydianiline and its salts	101-80-4	202-977-0	%	<0.05	0.1
132	4-aminoazobenzene	60-09-3	200-453-6	%	<0.05	0.1
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	%	<0.05	0.1
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	%	<0.05	0.1
135	Biphenyl-4-ylamine	92-67-1	202-177-1	%	<0.05	0.1
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	202-591-2	%	<0.05	0.1
137	o-toluidine	95-53-4	202-429-0	%	<0.05	0.1
138	N-methylacetamide	79-16-3	201-182-6	%	<0.05	0.1

Detected = "≥ 0.05% in whole product"

Not Detected = "< 0.05% in whole product"

Method: Sample was tested as composite mixture and extracted and digested with reference to USEPA 3051A, USAEPA 8270D, EN ISO 17353 and analyzed by Inductively Coupled Argon Plasma Spectrometer, Inductively Coupled Plasma Mass Spectrometer, Liquid Chromatography Mass Spectrometer, Gas Chromatograph Mass Spectrometer and Gas Chromatograph Electron Capture Detector.

Remark:

- * - The concentration of list substances were calculated as selected element(s).
- # - The concentration of Bis(tributyltin) oxide TBTO and Dibutyltin dichloride DBTC were calculated based on Tributyltin, TBT and Dibutyltin, DBT amount in sample, respectively. The result covers TBTO with other salts of TBT and DBTC with other salts of DBT under current technologies. Further investigation is required to determine the exact amount of TBTO and DBTC in sample.
- a - The anthracene oil derivatives are complex and consists of variable compositions of Polycyclic Aromatic Hydrocarbons (PAHs) and Carbazoles. The amount of Anthracene oil derivatives are calculated by the composition of PAHs and Carbazoles found in sample.
- § - TGIC (1,3,5-tris (oxiranylmethyl) -1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) and β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) are reported as a mixture.
- The chemical analysis of the Substance of Very High Concern is performed by currently available analytical techniques against the candidate list published by ECHA on December 19, 2012. This list was not finalized by ECHA and it may subject to change in the future.

Note: % = percentage
"<" = less than

*****End of Test Report*****

Modern Testing Services Co., Ltd.

No. 105 Guangzhong Rd., Zhuangqiao Town, Minhang, Shanghai, China P.R.C.201108
Tel: (86) 21-64892468 Fax: (86) 21-64423289 Email: info@mts-global.com Website : www.mts-global.com



TEST REPORT

Page 12 of 12
Report Number: 64413-02371

NOTE:

If there is question or concern regarding the above results, please contact us via email gyin@mts-global.com

The testing lab overall rating is provided to client as an aid in reviewing report data. The rating is based on lab results. Final product acceptance or rejection is per client only. Testing of vendor's merchandise by client is not a substitute for vendor's own testing and other quality assurance related obligations in connection with its sale of merchandise to client. Client testing shall not limit client's rights, or diminish or remove any of vendor's responsibilities.

Modern Testing Services Co., Ltd.

No. 105 Guangzhong Rd., Zhuangqiao Town, Minhang, Shanghai, China P.R.C.201108
Tel: (86) 21-64892468 Fax: (86) 21-64423289 Email: info@mts-global.com Website : www.mts-global.com