

# TEST REPORT

Reference No. : TRHZ1210326

Date : Oct. 19, 2012

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Client : NINGBO HAIJI ELECTRIC APPLIANCE CO., LTD  
Address : NO.1-9 WANGONGCHI ROAD, XIAODONG INDUSTRIAL ZONE YUYAO, NINGBO

The following merchandise was (were) submitted and identified by the client as:

Name of Product : VACUUM CLEANER  
Test Model : HJW-919  
Model May Cover : Please refer to appendix I  
Sample Received : Sep. 28, 2012  
Test Period : Sep. 28, 2012 – Oct. 18, 2012  
Test Request : As specified by client, based on the list published by European chemicals agency (ECHA) for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the eighty-four(84) Substances of Very High Concern (SVHC) content in the submitted sample.  
Test Method : Please refer to next page(s).  
Conclusion : According to the specified scope and analytical techniques, concentrations of SVHC **are less than 0.1%(w/w)** in the submitted sample.

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Issued by:

  


**TÜV NORD (Hang Zhou)**  
**Green Product Service Centre Manager**

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## Test Method:

Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
1	Tin	EPA 3052, ICP-OES	Bis(tributyltin)oxide (TBTO) **
2	Arsenic	EPA 3052, ICP-OES	Diarsenic pentaoxide **, Diarsenic trioxide **, Triethyl arsenate **, Lead hydrogen arsenate **, Arsenic acid**, Calcium arsenate**, Trilead diarsenate**
3	Lead	EPA 3052, ICP-OES	Lead hydrogen arsenate **, Lead chromate **, Lead sulfochromate yellow (C.I.Pigment Yellow 34)**, Lead chromate molybdate sulphate red (C.I. Pigment Red 104)**, Trilead diarsenate**, Lead diazide Lead azide **, Lead styphnate**, Lead dipicrate** Lead(II) bis(methanesulfonate) **
4	Molybdenum	EPA 3052, ICP-OES	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)**
5	Hexavalent Chromium	IEC 62321, Annex B or Annex C , UV-VIS	Sodium dichromate **, Sodium chromate**, Potassium chromate**, Ammonium dichromate**, Potassium dichromate**, Chromium trioxide**, Acids generated from chromium trioxide and their oligomers: Chromic acid**, Dichromic acid**, Oligomers of chromic acid and dichromic acid**, Strontium chromate** Lead chromate **, Lead sulfochromate yellow (C.I.Pigment Yellow 34) **, Lead chromate molybdate sulphate red (C.I. Pigment Red 104)** Dichromium tris(chromate)**



**TUV NORD(Hangzhou)CO.,LTD.**

5 Floor, No. 50 Jiuquan Road, Jianggan District, Hangzhou, China, 310019

中国浙江省杭州市江干区九环路50号5楼(杭州市质量技术监督检测院内) 邮编: 310019

tel: +86(0)571 85386989 ext 212

fax: +86(0)571 85386986

website: www.tuv-nord.com/cn e-mail: GPSC@tuv-nord.com

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Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
			Potassium hydroxyoctaoxidizincatedi- chromate** Pentazinc chromate octahydroxide**
6	Strontium	EPA 3052, ICP-OES	Strontium chromate**
7	Cobalt	EPA 3052, ICP-OES	Cobalt dichloride **, Cobalt(II) sulphate**, Cobalt(II) dinitrate**, Cobalt(II) carbonate**, Cobalt(II) diacetate**
8	Boron	EPA 3052, ICP-OES	Boric acid** , Disodium tetraborate, anhydrous**, Tetraboron disodium heptaoxide, hydrate** Diboron trioxide**
9	Silicon	EPA 3052, ICP-OES	Aluminosilicate Refractory Ceramic Fibres (RCF)** Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**
10	Aluminum	EPA 3052, ICP-OES	
11	Zirconium	EPA 3052, ICP-OES	
12	4,4'-Diaminodiphenylmeth ane (MDA)	EPA 3540C, GC-MS	4,4'-Diaminodiphenylmethane (MDA)
13	5-tert-butyl-2,4,6-trinitro-m -xylene (musk xylene)	EPA 3540C, GC-MS	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)
14	Dibutyl phthalate (DBP)	EPA 3540C, GC-MS	Dibutyl phthalate (DBP)
15	Benzyl butyl phthalate (BBP)	EPA 3540C, GC-MS	Benzyl butyl phthalate (BBP)
16	Bis (2-ethylhexyl)phthalate(DE HP)	EPA 3540C, GC-MS	Bis (2-ethylhexyl)phthalate (DEHP)
17	Diisobutyl phthalate (DIBP)	EPA 3540C, GC-MS	Diisobutyl phthalate (DIBP)
18	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)*	EPA 3540C, GC-MS	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)*

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19	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	EPA 3540C, GC-MS	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)
20	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	EPA 3540C, GC-MS	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified
21	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	EPA 3540C, GC-MS	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)
22	Anthracene	ZEK 01.4-08, GC-MS	Anthracene
23	Anthracene oil	ZEK 01.4-08, GC-MS	Anthracene oil
24	Anthracene oil, anthracene paste, distn. lights	ZEK 01.4-08, GC-MS	Anthracene oil, anthracene paste, distn. lights
25	Anthracene oil, anthracene paste, anthracene fraction	ZEK 01.4-08, GC-MS	Anthracene oil, anthracene paste, anthracene fraction
26	Anthracene oil, anthracene-low	ZEK 01.4-08, GC-MS	Anthracene oil, anthracene-low
27	Anthracene oil, anthracene paste	ZEK 01.4-08, GC-MS	Anthracene oil, anthracene paste
28	Pitch, coal tar, high temp.	Distilment	Pitch, coal tar, high temp.
29	Acrylamide	EPA 3540C, GC-MS	Acrylamide
30	2,4-Dinitrotoluene	EPA 3540C, GC-MS	2,4-Dinitrotoluene
31	Tris(2-chloroethyl)phosphate	EPA 3540C, GC-MS	Tris(2-chloroethyl)phosphate
32	Trichloroethylene	EPA 3540C, GC-MS	Trichloroethylene
33	2-Methoxyethanol	EPA 3540C, GC-MS	2-Methoxyethanol
34	2-Ethoxyethanol	EPA 3540C, GC-MS	2-Ethoxyethanol
35	2-Ethoxyethyl acetate	EPA 3540C, GC-MS	2-Ethoxyethyl acetate
36	Hydrazine	EPA 8260C, HS-GC-MS	Hydrazine
37	1-Methyl-2-pyrrolidone	EPA 3540C, GC-MS	1-Methyl-2-pyrrolidone
38	1,2,3-Trichloropropane	EPA 3540C, GC-MS	1,2,3-Trichloropropane
39	Formaldehyde, oligomeric reaction products with	EPA 3540C, HPLC	Formaldehyde, oligomeric reaction products with aniline (technical MDA)



**TUV NORD(Hangzhou)CO.,LTD.**

5 Floor, No. 50 Jiuquan Road, Jianggan District, Hangzhou, China, 310019

中国浙江省杭州市江干区九环路50号5楼(杭州市质量技术监督检测院内) 邮编: 310019

tel: +86(0)571 85386989 ext 212

fax: +86(0)571 85386986

website: www.tuv-nord.com/cn e-mail: GPSC@tuv-nord.com

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Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
	aniline (technical MDA)		
40	Bis(2-methoxyethyl) phthalate (DMEP)	EPA 3540C, GC-MS	Bis(2-methoxyethyl) phthalate (DMEP)
41	2-Methoxyaniline; o-Anisidine	EPA 3540C, GC-MS	2-Methoxyaniline; o-Anisidine
42	4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	EPA 3540C, HPLC	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)
43	1,2-Dichloroethane	GB 18583-2008 Annex E, GC-FID	1,2-Dichloroethane
44	Bis(2-methoxyethyl) ether	GB 18582-2008 Annex A, GC-FID	Bis(2-methoxyethyl) ether
45	N,N-dimethylacetamide (DMAC)	EPA 3540C, GC-MS	N,N-dimethylacetamide (DMAC)
46	2,2'-dichloro-4,4'-methylen edianiline (MOCA)	EPA 3540C, GC-MS	2,2'-dichloro-4,4'-methylenedianiline (MOCA)
47	Phenolphthalein	EPA 3540C, HPLC	Phenolphthalein
48	1,2-bis(2-methoxyethoxy)e thane (TEGDME; triglyme)	EPA 3540C, GC-MS	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)
49	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	EPA 3540C, GC-MS	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)
50	Formamide	EPA 3540C, HPLC	Formamide
51	TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6(1H,3H, 5H)-trione)	EPA 3540C, HPLC	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazin e-2,4,6(1H,3H,5H)-trione)
52	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- -triazine-2,4,6-(1H,3H,5H)- trione)	EPA 3540C, HPLC	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2, 4,6-(1H,3H,5H)-trione)
53	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	EPA 3540C, HPLC	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)
54	N,N,N',N'-tetramethyl-4,4'-	EPA 3540C, HPLC	N,N,N',N'-tetramethyl-4,4'-methylenedi



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tel: +86(0)571 85386989 ext 212

fax: +86(0)571 85386986

website: www.tuv-nord.com/cn e-mail: GPSC@tuv-nord.com

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Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
	methylenedianiline (Michler's base)		aniline (Michler's base)
55	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohex a-2,5-dien-1-ylidene]dimet hylammonium chloride (C.I. Basic Violet 3)	EPA 3540C, HPLC	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1 -ylidene]dimethylammonium chloride (C.I. Basic Violet 3)
56	[4-[[4-anilino-1-naphthyl][4 -(dimethylamino)phenyl]m ethylene]cyclohexa-2,5-die n-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	EPA 3540C, HPLC	[4-[[4-anilino-1-naphthyl][4-(dimethyla mino)phenyl]methylene]cyclohexa-2,5 -dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)
57	$\alpha,\alpha$ -Bis[4-(dimethylamino) phenyl]-4 (phenylamino)naphthalene -1-methanol (C.I. Solvent Blue 4)	EPA 3540C, HPLC	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methano l (C.I. Solvent Blue 4)
58	4,4'-bis(dimethylamino)-4''- (methylamino)trityl alcohol	EPA 3540C, HPLC	4,4'-bis(dimethylamino)-4''-(methylami no)trityl alcohol

\*\*\*\*\* To be continued \*\*\*\*\*

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## Test Results:

The first fifteen Substances of Very High Concern (Released in Oct, 2008)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A
1	Bis(tributyltin)oxide (TBTO)**	56-35-9	200-268-0	0.020	N.D.
2	Diarsenic pentaoxide**	1303-28-2	215-116-9	0.020	N.D.
3	Diarsenic trioxide**	1327-53-3	215-481-4	0.020	N.D.
4	Triethyl arsenate**	15606-95-8	427-700-2	0.020	N.D.
5	Lead hydrogen arsenate**	7784-40-9	232-064-2	0.020	N.D.
6	Cobalt dichloride**	7646-79-9	231-589-4	0.020	N.D.
7	Sodium dichromate **	7789-12-0, 10588-01-9	234-190-3	0.020	N.D.
8	Anthracene	120-12-7	204-371-1	0.020	N.D.
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	0.020	N.D.
10	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.020	N.D.
11	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.020	N.D.
12	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.020	N.D.
13	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	0.020	N.D.
14	Hexabromocyclododecane(HBC DD) and all major diastereoisomers identified	25637-99-4, 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	247-148-4, 221-695-9	0.020	N.D.
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	0.020	N.D.

\*\*\*\*\* To be continued \*\*\*\*\*



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5 Floor, No. 50 Jiuquan Road, Jianggan District, Hangzhou, China, 310019

中国浙江省杭州市江干区九环路50号5楼(杭州市质量技术监督检测院内) 邮编: 310019

tel: +86(0)571 85386989 ext 212

fax: +86(0)571 85386986

website: www.tuv-nord.com/cn e-mail: GPSC@tuv-nord.com

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The second thirteen Substances of Very High Concern (Released in Jan, 2010 and Mar, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A
16	Anthracene oil	90640-80-5	292-602-7	0.020	N.D.
17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	0.020	N.D.
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.020	N.D.
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.020	N.D.
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.020	N.D.
21	Pitch, coal tar, high temp.	65996-93-2	266-028-2	0.020	N.D.
22	Acrylamide	79-06-1	201-173-7	0.020	N.D.
23	2,4-Dinitrotoluene	121-14-2	204-450-0	0.020	N.D.
24	Diisobutyl phthalate(DIBP)	84-69-5	201-553-2	0.020	N.D.
25	Lead chromate**	7758-97-6	231-846-0	0.020	N.D.
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) **	12656-85-8	235-759-9	0.020	N.D.
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34) **	1344-37-2	215-693-7	0.020	N.D.
28	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.020	N.D.

\*\*\*\*\* To be continued \*\*\*\*\*



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The third eight Substances of Very High Concern (Released in Jun, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A
29	Trichloroethylene	79-01-6	201-167-4	0.020	N.D.
30	Boric acid**	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.020	N.D.
31	Disodium tetraborate, anhydrous**	1330-43-4/ 12179-04-3/ 1303-96-4	215-540-4	0.020	N.D.
32	Tetraboron disodium heptaoxide, hydrate**	12267-73-1	235-541-3	0.020	N.D.
33	Sodium chromate**	7775-11-3	231-889-5	0.020	N.D.
34	Potassium chromate**	7789-00-6	232-140-5	0.020	N.D.
35	Ammonium dichromate**	7789-09-5	232-143-1	0.020	N.D.
36	Potassium dichromate**	7778-50-9	231-906-6	0.020	N.D.

\*\*\*\*\* To be continued \*\*\*\*\*

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The fourth eight Substances of Very High Concern (Released in Dec, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A	
37	Cobalt(II) sulphate**	10124-43-3	233-334-2	0.020	N.D.	
38	Cobalt(II) dinitrate**	10141-05-6	233-402-1	0.020	N.D.	
39	Cobalt(II) carbonate**	513-79-1	208-169-4	0.020	N.D.	
40	Cobalt(II) diacetate**	71-48-7	200-755-8	0.020	N.D.	
41	2-Methoxyethanol	109-86-4	203-713-7	0.020	N.D.	
42	2-Ethoxyethanol	110-80-5	203-804-1	0.020	N.D.	
43	Chromium trioxide**	1333-82-0	215-607-8	0.020	N.D.	
44	Acids generated from chromium trioxide and their oligomers	Chromic acid**	7738-94-5	231-801-5	0.020	N.D.
		Dichromic acid**	13530-68-2	236-881-5	0.020	N.D.
		Oligomers of chromic acid and dichromic acid**	--	--	0.020	N.D.

\*\*\*\*\* To be continued \*\*\*\*\*

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The fifth seven Substances of Very High Concern (Released in Jun, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A
45	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.020	N.D.
46	Strontium chromate**	7789-06-2	232-142-6	0.020	N.D.
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)*	68515-42-4	271-084-6	0.020	N.D.
48	Hydrazine	7803-57-8 302-01-2	206-114-9	0.020	N.D.
49	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.020	N.D.
50	1,2,3-Trichloropropane	96-18-4	202-486-1	0.020	N.D.
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	276-158-1	0.020	N.D.

\*\*\*\*\* To be continued \*\*\*\*\*



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中国 杭州市江干区九环路50号5楼(杭州市质量技术监督检测院内) 邮编: 310019 website:www.tuv-nord.com/cn e-mail:GPSC@tuv-nord.com

tel:+86(0)571 85386989 ext 212

fax:+86(0)571 85386986

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The sixth twenty Substances of Very High Concern (Released in Dec, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A
52	Dichromium tris(chromate)**	24613-89-6	246-356-2	0.020	N.D.
53	Potassium hydroxyoctaoxodizincatedichromate**	11103-86-9	234-329-8	0.020	N.D.
54	Pentazinc chromate octahydroxide**	49663-84-5	256-418-0	0.020	N.D.
55	Aluminosilicate Refractory Ceramic Fibres (RCF)**	-	-	0.020	N.D.
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	-	-	0.020	N.D.
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.020	N.D.
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	204-212-6	0.020	N.D.
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.020	N.D.
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.020	N.D.
61	1,2-Dichloroethane	107-06-2	203-458-1	0.020	N.D.
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.020	N.D.
63	Arsenic acid**	7778-39-4	231-901-9	0.020	N.D.
64	Calcium arsenate**	7778-44-1	231-904-5	0.020	N.D.
65	Trilead diarsenate**	3687-31-8	222-979-5	0.020	N.D.
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.020	N.D.
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.020	N.D.
68	Phenolphthalein	77-09-8	201-004-7	0.020	N.D.
69	Lead diazide Lead azide **	13424-46-9	236-542-1	0.020	N.D.
70	Lead styphnate**	15245-44-0	239-290-0	0.020	N.D.
71	Lead dipicrate**	6477-64-1	229-335-2	0.020	N.D.

\*\*\*\*\* To be continued \*\*\*\*\*



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tel: +86(0)571 85386989 ext 212

fax: +86(0)571 85386986

中国浙江省杭州市江干区九环路50号5楼(杭州市质量技术监督检测院内) 邮编: 310019 website: www.tuv-nord.com/cn e-mail: GPSC@tuv-nord.com

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The seventh thirteen Substances of Very High Concern (Released in June ,2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.020	N.D.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.020	N.D.
74	Diboron trioxide**	1303-86-2	215-125-8	0.020	N.D.
75	Formamide	75-12-7	200-842-0	0.020	N.D.
76	Lead(II) bis(methanesulfonate) **	17570-76-2	401-750-5	0.020	N.D.
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.020	N.D.
78	$\beta$ -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	0.020	N.D.
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.020	N.D.
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.020	N.D.
81	[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	0.020	N.D.
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	0.020	N.D.
83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.020	N.D.
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.020	N.D.

\*\*\*\*\* To be continued \*\*\*\*\*



**TUV NORD(Hangzhou)CO.,LTD.**

5 Floor, No. 50 Jiuquan Road, Jianggan District, Hangzhou, China, 310019

中国浙江省杭州市江干区九环路50号5楼(杭州市质量技术监督检测院内) 邮编: 310019 website: www.tuv-nord.com/cn e-mail: GPSC@tuv-nord.com

tel: +86(0)571 85386989 ext 212

fax: +86(0)571 85386986

Member of TÜV NORD Group

# TEST REPORT

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## Specimen Description:

A: Dust collector (over all test)

## Note:

- mg/kg =ppm= $10^{-6}$
- %=w/w
- N.D. :< Report Limit
- \*The detected DHNUP are consisted of six phthalates which CAS number are 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0. according to the Annex 15 of REACH.
- \*\* According to the 5.2.1 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.
- Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily "the substance" which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011.
- Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA "Guidance on requirements for substances in articles".
- Photo is included

## SAMPLE PHOTO



\*\*\*\*\* To be continued \*\*\*\*\*

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**Appendix I The following information was submitted and identified by the client, only for reference.**

Model May Cover : HJW-3503, HJW-901, HJW-907, HJW-906, HJW-916, HJW-908, HJW-102, HJW-103, HJW-104, HJW-114, HJW-114S, HJW-115, HJW-1208, HJW-3502, HJW-902, HJW-5401, HJW-3501, HJX-909, HJX-919, HJX-4601, HJX-4401, HJX-918, HJX-912, HJX-3506, HJS-001, HJS-002, HJS-003, HJS-112, HJS-112L

**\*\*\*\*\* END OF REPORT \*\*\*\*\***



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tel: +86(0)571 85386989 ext 212

fax: +86(0)571 85386986

中国 杭州市江干区九环路50号5楼(杭州市质量技术监督检测院内) 邮编: 310019 website: www.tuv-nord.com/cn e-mail: GPSC@tuv-nord.com