

# Test Report

Report No. RHS06F000997001

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**Applicant** JINLONG MACHINERY & ELECTRONIC CO.,LTD  
**Address** JINLONG SCIENCE & TECHNOLOGY PARK , JIN GANG AVENUE, BAIXIANG ,  
YUEQING , ZHEJIANG

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

No.	Product Name	Sample Name
1	Solid Motor	bracket, varistor, case, Communtator segments,
2		bearing, terminal, enameled wire, counter weight,
3		rotor iron core, shaft, brush, Spring Contact
		washer, plastic, end cap, bush, magnet, grommet

Sample Received Date Jul. 9, 2013  
Testing Period Jul. 9, 2013 to Jul. 16, 2013

**Test Requested** As specified by client, to screen the 60 substances of very high concern(SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

**Test Method** Please refer to the following page(s).

**Test Result(s)** Please refer to the following page(s).

**Summary** According to the analytical results, concentrations of 60 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

Tested by

*Sha Chen*

Reviewed by

*Lin Zhang*

Approved by

*Wei Miao*

Date

Jul. 16, 2013

Wei Miao

Approved Signatory

No. 1343106774

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**Test Result(s)**

No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)			Report Limit
				1	2	3	
1	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	/	/	N.D.	0.05%
2	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> ]	-	-	/	/	N.D.	0.05%
3	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	/	/	N.D.	0.05%
4	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [ <i>covering well-defined substances and UVCB substances, polymers and homologues</i> ]	-	-	/	/	N.D.	0.05%
5	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	/	/	N.D.	0.05%
6	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	/	/	N.D.	0.05%
7	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	/	/	N.D.	0.05%
8	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	/	/	N.D.	0.05%
9	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	/	/	N.D.	0.05%
10	Diisopentylphthalate(DIPP)	605-50-5	210-088-4	/	/	N.D.	0.05%

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No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)			Report Limit
				1	2	3	
11	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	/	/	N.D.	0.05%
12	N-pentyl-isopentylphthalate	776297-69-9	-	/	/	N.D.	0.05%
13	Methoxyacetic acid	625-45-6	210-894-6	/	/	N.D.	0.05%
14	Tricosafuorododecanoic acid	307-55-1	206-203-2	/	/	N.D.	0.05%
15	1,2-Diethoxyethane	629-14-1	211-076-1	/	/	N.D.	0.05%
16	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	/	/	N.D.	0.05%
17	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	/	/	N.D.	0.05%
18	N-methylacetamide	79-16-3	201-182-6	/	/	N.D.	0.05%
19	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	N.D.	N.D.	N.D.	0.01%
20	Biphenyl-4-ylamine	92-67-1	202-177-1	/	/	N.D.	0.05%
21	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	/	/	N.D.	0.05%
22	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	N.D.	N.D.	N.D.	0.01%
23	Lead dinitrate*	10099-74-8	233-245-9	N.D.	N.D.	N.D.	0.01%
24	Tetralead trioxide sulphate*	12202-17-4	235-380-9	N.D.	N.D.	N.D.	0.01%
25	Lead monoxide (lead oxide)*	1317-36-8	215-267-0	N.D.	N.D.	N.D.	0.01%
26	Lead titanium trioxide*	12060-00-3	235-038-9	N.D.	N.D.	N.D.	0.01%
27	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	/	/	N.D.	0.05%
28	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	N.D.	N.D.	N.D.	0.01%
29	Dimethyl sulphate	77-78-1	201-058-1	/	/	N.D.	0.05%
30	Furan	110-00-9	203-727-3	/	/	N.D.	0.05%
31	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	N.D.	N.D.	N.D.	0.01%
32	Tetraethyllead*	78-00-2	201-075-4	N.D.	N.D.	N.D.	0.01%
33	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	N.D.	N.D.	N.D.	0.01%
34	Diethyl sulphate	64-67-5	200-589-6	/	/	N.D.	0.05%
35	Lead cyanamidate*	20837-86-9	244-073-9	N.D.	N.D.	N.D.	0.01%
36	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	N.D.	N.D.	N.D.	0.01%
37	Trilead dioxide phosphonate*	12141-20-7	235-252-2	N.D.	N.D.	N.D.	0.01%
38	o-Toluidine	95-53-4	202-429-0	/	/	N.D.	0.05%

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39	<i>o</i> -aminoazotoluene	97-56-3	202-591-2	/	/	N.D.	0.05%
40	4-aminoazobenzene	60-09-3	200-453-6	/	/	N.D.	0.05%
41	6-methoxy- <i>m</i> -toluidine ( <i>p</i> -cresidine)	120-71-8	204-419-1	/	/	N.D.	0.05%
42	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	/	/	N.D.	0.05%
43	Lead titanium zirconium oxide*	12626-81-2	235-727-4	N.D.	N.D.	N.D.	0.01%
44	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	/	/	N.D.	0.05%
45	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	/	/	N.D.	0.05%
46	Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	N.D.	N.D.	N.D.	0.01%
47	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	N.D.	N.D.	N.D.	0.01%
48	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	N.D.	N.D.	N.D.	0.01%
49	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	N.D.	N.D.	N.D.	0.01%
50	4,4'-oxydianiline and its salts	101-80-4	202-977-0	/	/	N.D.	0.05%
51	Lead oxide sulfate*	12036-76-9	234-853-7	N.D.	N.D.	N.D.	0.01%
52	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	N.D.	N.D.	N.D.	0.01%
53	Silicic acid, lead salt*	11120-22-2	234-363-3	N.D.	N.D.	N.D.	0.01%
54	N,N-dimethylformamide	68-12-2	200-679-5	/	/	N.D.	0.05%
55	Cadmium	7440-43-9	231-152-8	N.D.	N.D.	N.D.	0.01%
56	Cadmium oxide*	1306-19-0	215-146-2	N.D.	N.D.	N.D.	0.01%
57	Dipentyl phthalate (DPP)	131-18-0	205-017-9	/	/	N.D.	0.01%

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58	4-Nonylphenol, branched and linear, ethoxylated[ <i>substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof</i> ]	-	-	/	/	N.D.	0.05%
59	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	/	/	N.D.	0.01%
60	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	/	/	N.D.	0.01%

**Test Method:**

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), BS EN 14582:2007.

for sample pretreatment.

Analyzed by ICP-OES, SEM-EDS, UV-Vis, IC, GC-MS, Headspace-GCMS and HPLC.

**Tested Sample/Part Description**

- 1 Mixed test, six kinds of metal
- 2 Mixed test, five kinds of metal
- 3 Mixed test, seven kinds of non-metal

**Note:**

1. w/w = weight by weight; 0.1% = 1000 mg/kg = 1000 ppm
2. N.D. = Not Detected (<report limit)
3. \*: Concentration value of the substance by the conversion from the test results of certain elements.

**Remark:** As specified by client, the test was conducted by mixing several samples together. The results shown on this report may be different from the content of any homogeneous material.

# Test Report

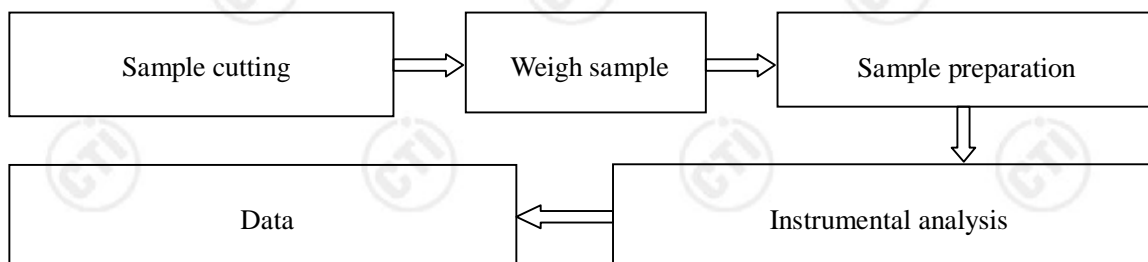
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## Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
  - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
  - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
  - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
  - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures or  $\geq 0.2$  % by volume for gaseous mixtures.

## Test Process

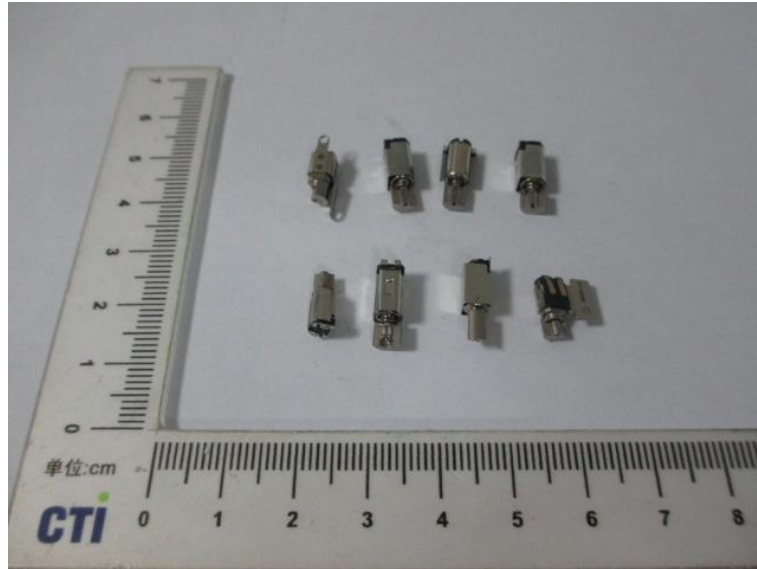


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## Photo(s) of the product(s)



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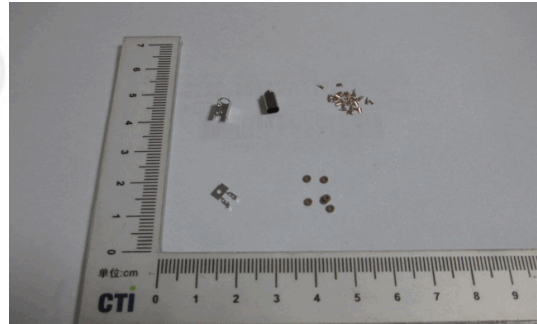
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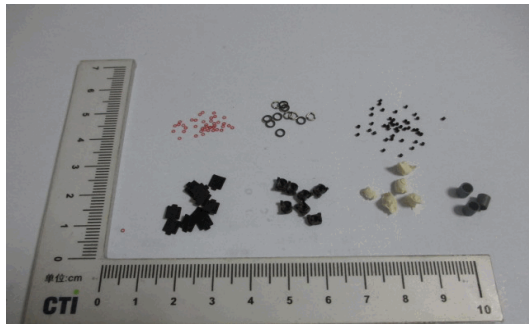
## Photo(s) of the sample(s)



1



2



3

\*\*\* End of Report \*\*\*

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