

Test Report

Report No.:TJR09021283401

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Applicant :JINLONG MACHINERY&ELECTRONICS CO., LTD.

Address :JINLONG SCIENCE & TECHNOLOGY PARK, JINGANG AVENUE, LIUSHI, WENZHOU,
ZHEJIANG, 325603, CHINA

Report on the submitted sample(s) said to be:

Sample Name :Cylinder series motor SVHC report
Sample Description :Please refer to the next page
Sample Received Date :Feb. 12, 2009
Testing Period :Feb. 12, 2009 to Feb. 18, 2009

Test Requested :As specified by client, to screen the fifteen substances of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH, including Anthracene, 4,4'-Diaminodiphenylmethane, Dibutyl phthalate, Cobaltdichloride, Diarsenic pentaoxide, Diarsenic trioxide, Sodium dichromate, Musk-xylene, Bis(2-ethyl(hexyl)phthalate)(DEHP), Hexabromocyclododecane(HBCDD), Short Chain Chlorinated Paraffins, Bis(tributyltin)oxide, Lead hydrogen arsenate, Benzyl butyl phthalate, Triethyl Arsenate in the submitted sample.

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

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

Regulation Request :Under REACH REGULATION(EC)No 1907/2006, suppliers of articles which contain SVHC in a concentration above 0.1% (w/w) have to provide sufficient information, to articles recipients, to a consumer within 45 days of the receipt of the request. This information must ensure safe use of the article and as minimum contain the name of the substance.

Tested by



Inspected by



Approved by



Date

Feb. 18, 2009

Technical Manager



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No.	Sample Names		Sample Description
1	Stator components		The mixture of silver color metal, cupreous color metal and black solid
2	End cap components	Spring contacts type	The mixture of white plastic, golden color metal and silver color metal
3		Connector type	The mixture of white plastic, transparent plastic, black plastic, red plastic, silver color metal, golden color metal and metal wire
4	Armature components		The mixture of silver color metal, cupreous color metal, beige paper, white plastic, beige plastic and silver-gray metal
5	Counter weight		Metal with silver color plating
6	Bracket		Metal with silver color plating
7	Rubber		Black rubber
8	Washer		Beige plastic
9	U-shaped clip		Metal with silver-white plating
10	Rivet		Metal with silver-white plating
11	Copper bushing		Metal with silver color plating
12	Capping		Yellow-green plastic



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Test Method:

Substance Name(s)	Test Method	Measured Equipment(s)	Report Limit
Anthracene	Refer to US EPA 8270D:2007	GC-MS	0.005%
4,4'- Diaminodiphenylmethane	Refer to US EPA 8270D:2007	GC-MS	0.005%
Dibutyl phthalate(DBP)	Refer to ASTM D3421	GC-MS	0.005%
Cobalt dichloride*	Refer to US EPA 3052:1996/ BS EN14582:2007	ICP-OES/IC	0.01%
Diarsenic pentaoxide*	Refer to US EPA 3052:1996	ICP-OES	0.01%
Diarsenic trioxide*	Refer to US EPA 3052:1996	ICP-OES	0.01%
Sodium dichromate*	Refer to US EPA 3052:1996/ US EPA 3060A:1996	ICP-OES/ UV-Vis	0.01%
Musk xylene	Refer to US EPA 3540C:1996	GC-MS	0.005%
Bis(2-ethyl(hexyl)phthalate)(DEHP)	Refer to ASTM D3421	GC-MS	0.005%
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996	GC-MS	0.005%
Short Chain Chlorinated Paraffins (SCCPs)	Refer to US EPA 8260C:2006	GC-MS	0.01%
Bis(tributyltin)oxide (TBTO)*	Refer to US EPA 3052:1996	ICP-OES	0.005%
Lead hydrogen arsenate*	Refer to US EPA 3052:1996	ICP-OES	0.01%
Benzyl butyl phthalate(BBP)	Refer to ASTM D3421	GC-MS	0.005%
Triethyl arsenate*	Refer to US EPA 3052:1996	ICP-OES	0.01%



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Test Result(s):

Substance Name(s)	Concentration(%)			
	Sample No.1	Sample No.2	Sample No.3	Sample No.4
Anthracene	N.D.	N.D.	N.D.	N.D.
4,4' - Diaminodiphenylmethane	N.D.	N.D.	N.D.	N.D.
Dibutyl phthalate(DBP)	N.D.	N.D.	N.D.	N.D.
Cobalt dichloride*	N.D.	N.D.	N.D.	N.D.
Diarsenic pentaoxide*	N.D.	N.D.	N.D.	N.D.
Diarsenic trioxide*	N.D.	N.D.	N.D.	N.D.
Sodium dichromate*	N.D.	N.D.	N.D.	N.D.
Musk xylene	N.D.	N.D.	N.D.	N.D.
Bis(2-ethyl(hexyl)phthalate) (DEHP)	N.D.	N.D.	N.D.	N.D.
Hexabromocyclododecane (HBCDD)	N.D.	N.D.	N.D.	N.D.
Short Chain Chlorinated Paraffins(SCCPs)	N.D.	N.D.	N.D.	N.D.
Bis(tributyltin)oxide (TBTO)*	N.D.	N.D.	N.D.	N.D.
Lead hydrogen arsenate*	N.D.	N.D.	N.D.	N.D.
Benzyl butyl phthalate(BBP)	N.D.	N.D.	N.D.	N.D.
Triethyl arsenate*	N.D.	N.D.	N.D.	N.D.



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Test Result(s):

Substance Name(s)	Concentration(%)			
	Sample No.5	Sample No.6	Sample No.7	Sample No.8
Anthracene	N.A.	N.A.	N.D.	N.D.
4,4' - Diaminodiphenylmethane	N.A.	N.A.	N.D.	N.D.
Dibutyl phthalate(DBP)	N.A.	N.A.	N.D.	N.D.
Cobalt dichloride*	N.D.	N.D.	N.D.	N.D.
Diarsenic pentaoxide*	N.D.	N.D.	N.D.	N.D.
Diarsenic trioxide*	N.D.	N.D.	N.D.	N.D.
Sodium dichromate*	N.D.	N.D.	N.D.	N.D.
Musk xylene	N.A.	N.A.	N.D.	N.D.
Bis(2-ethyl(hexyl)phthalate) (DEHP)	N.A.	N.A.	N.D.	N.D.
Hexabromocyclododecane (HBCDD)	N.A.	N.A.	N.D.	N.D.
Short Chain Chlorinated Paraffins(SCCPs)	N.A.	N.A.	N.D.	N.D.
Bis(tributyltin)oxide (TBTO)*	N.A.	N.A.	N.D.	N.D.
Lead hydrogen arsenate*	N.D.	N.D.	N.D.	N.D.
Benzyl butyl phthalate(BBP)	N.A.	N.A.	N.D.	N.D.
Triethyl arsenate*	N.D.	N.D.	N.D.	N.D.



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Test Result(s):

Substance Name(s)	Concentration(%)			
	Sample No.9	Sample No.10	Sample No.11	Sample No.12
Anthracene	N.A.	N.A.	N.A.	N.D.
4,4' - Diaminodiphenylmethane	N.A.	N.A.	N.A.	N.D.
Dibutyl phthalate(DBP)	N.A.	N.A.	N.A.	N.D.
Cobalt dichloride*	N.D.	N.D.	N.D.	N.D.
Diarsenic pentaoxide*	N.D.	N.D.	N.D.	N.D.
Diarsenic trioxide*	N.D.	N.D.	N.D.	N.D.
Sodium dichromate*	N.D.	N.D.	N.D.	N.D.
Musk xylene	N.A.	N.A.	N.A.	N.D.
Bis(2-ethyl(hexyl)phthalate) (DEHP)	N.A.	N.A.	N.A.	N.D.
Hexabromocyclododecane (HBCDD)	N.A.	N.A.	N.A.	N.D.
Short Chain Chlorinated Paraffins(SCCPs)	N.A.	N.A.	N.A.	N.D.
Bis(tributyltin)oxide (TBTO)*	N.A.	N.A.	N.A.	N.D.
Lead hydrogen arsenate*	N.D.	N.D.	N.D.	N.D.
Benzyl butyl phthalate(BBP)	N.A.	N.A.	N.A.	N.D.
Triethyl arsenate*	N.D.	N.D.	N.D.	N.D.

Note: -N.D. = Not Detected (<report limit)

-N.A.=Not Available

Remark: *Concentration value of Cobalt dichloride by the conversion from the test results of Cobalt and Chlorine.
Concentration value of Diarsenic pentaoxide, Diarsenic trioxide, Sodium dichromate, Bis(tributyltin)oxide, Lead hydrogen arsenate, Triethyl arsenate by the conversion from the test results of corresponding heavy metal.



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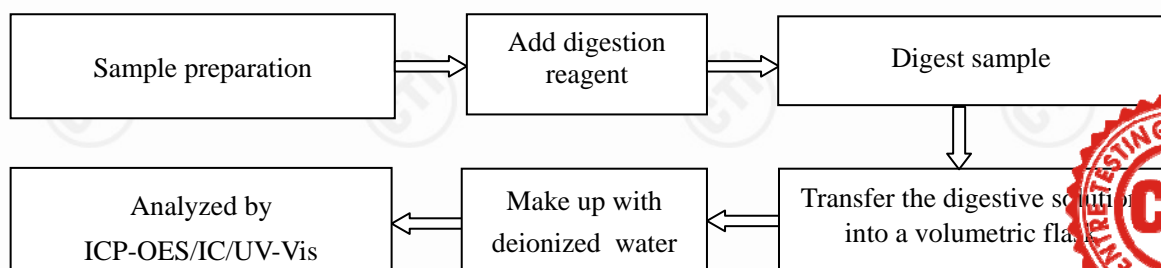
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Substance Information:

Substance Name(s)	CAS No.	EC No.	Classification
Anthracene	120-12-7	204-371-1	PBT
4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	Carcinogen, cat. 2
Dibutyl phthalate(DBP)	84-74-2	201-557-4	Toxic for reproduction, cat.2
Cobalt dichloride*	7646-79-9	231-589-4	Carcinogen, cat.2
Diarsenic pentaoxide*	1303-28-2	215-116-9	Carcinogen, cat.1
Diarsenic trioxide*	1327-53-3	215-481-4	Carcinogen, cat.1
Sodium dichromate*	7789-12-0 /10588-01-9	234-190-3	Carcinogen, cat.2 Mutagen, cat.2 Toxic for reproduction, cat.2
Musk xylene	81-15-2	201-329-4	vPvB
Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0	Toxic for reproduction, cat.2
Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	247-148-4/ 221-695-9	PBT
Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	287-476-5	PBT,vPvB
Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	PBT
Lead hydrogen arsenate*	7784-40-9	232-064-2	Carcinogen, cat.1 Toxic for reproduction, cat.1
Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	Toxic for reproduction, cat.2
Triethyl arsenate*	15606-95-8	427-700-2	Carcinogen, cat. 1

Test Process:

- 1. Screen for Cobalt dichloride/Diarsenic pentaoxide/Diarsenic trioxide/Sodium dichromate/ Bis(tributyltin)oxide/Lead hydrogen arsenate/Triethyl arsenate**

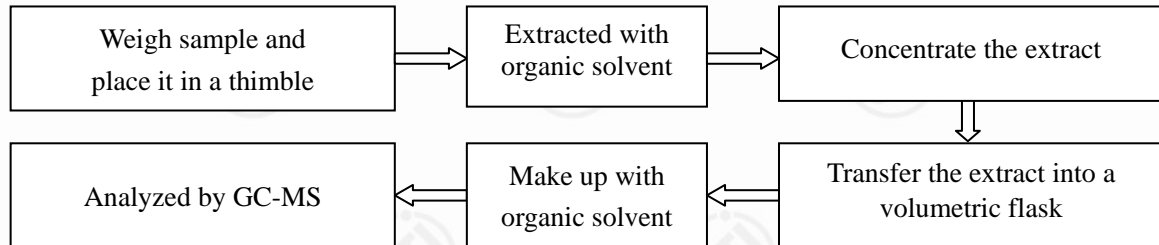


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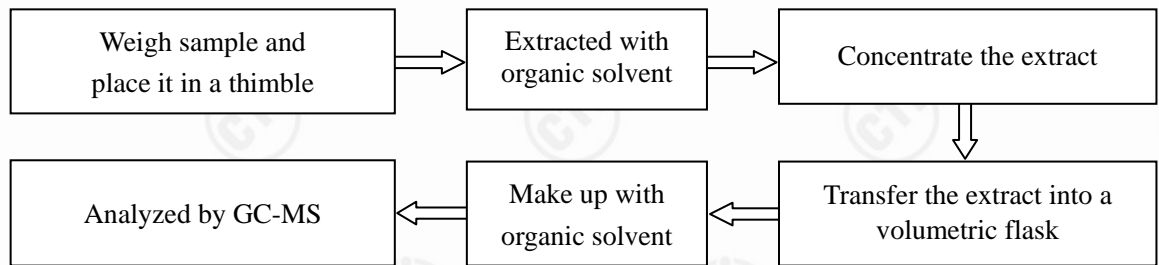
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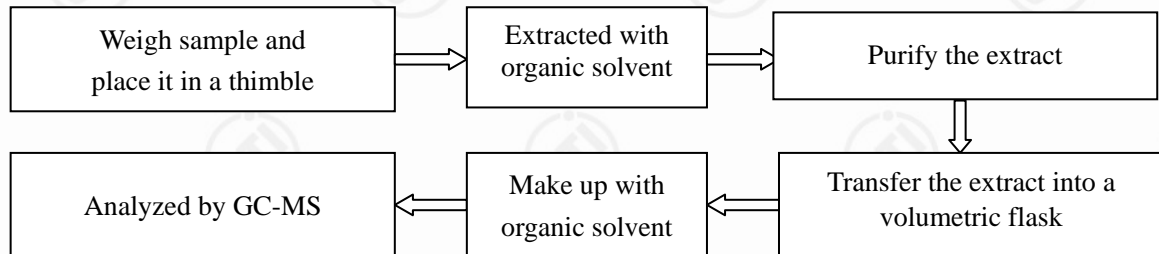
2. Test for Anthracene/4,4'-diaminodiphenylmethane Content



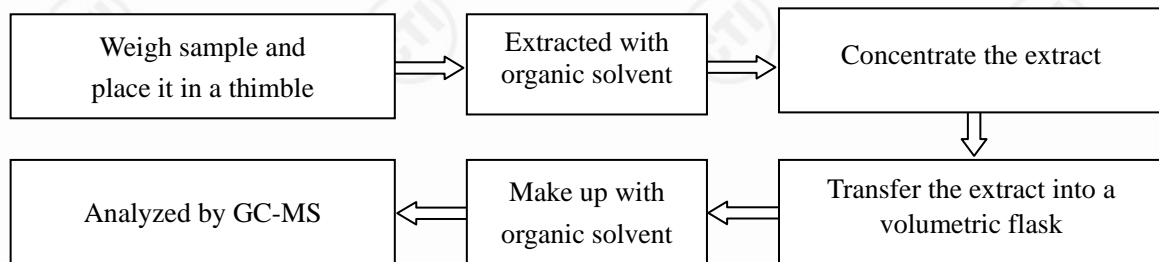
3. Test for Musk xylene/HBCDD Content



4. Test for SCCPs Content



5. Test for DBP/BBP/DEHP Content



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Photos of the samples

Sample No.1



Sample No.2



Sample No.3



Sample No.4



Sample No.5



Sample No.6



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Photos of the samples

Sample No.7



Sample No.8



Sample No.9



Sample No.10



Sample No.11



Sample No.12



*** End of report ***

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