

## Test Report

No. CTSSA/07496/14

Date : 21/04/2014

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CTS Ref. CTSSA/14/1136/Golden

**GOLDEN WAY TECHNOLOGY SDN BHD**  
**30, JALAN INDUSTRI PBP8, TAMAN INDUSTRI**  
**PUSAT BANDAR PUCHONG**  
**47100 PUCHONG, SELANGOR**

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

Sample Description : Cast Iron Pulley + Bush (1SPZ 85/1210x24mm)  
Sample Receiving Date : 15/04/2014  
Testing Period : 15/04/2014 to 21/04/2014

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Test Requested : Selected test(s) as requested by client

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Analysts : Cho Kar Yen, Tan Li Wei, Isabelle Chan Suet Yee & Tay Siam Pine

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SENIOR LAB MANAGER

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Test results:

Test Part Description :

Sample Description : Cast Iron Pulley + Bush (1SPZ 85/1210x24mm)

**RoHS Directive 2011/65/EU Annex II**

Test Item(s):	Unit	Test Method	Results	MDL
Cadmium(Cd)	mg/kg	With reference to EPA Method 3051A, and performed by ICP-OES	N.D.	2
Lead (Pb)	mg/kg	With reference to EPA Method 3051A, and performed by ICP-OES	N.D.	2
Mercury (Hg)	mg/kg	With reference to EPA Method 3051A, and performed by ICP-OES	N.D.	2
Hexavalent Chromium (CrVI)	mg/kg	With reference to JIS H 8625, and performed by UV-VIS Spectrophotometry	N.D.	2
<b>Sum of PBBs</b>	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	-
Monobromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Dibromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Tribromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Tetrabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Pentabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Hexabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Heptabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Octabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Nonabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Decabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5

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Sum of PBDEs	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	-
Monobromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Dibromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Tribromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Tetrabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Pentabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Hexabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Heptabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Octabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Nonabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Decabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5

- Note :
- (a) mg/kg = ppm ; (0.1wt% = 1000ppm)
  - (b) N.D. = Not Detected
  - (c) MDL = Method Detection Limit
  - (d) - = Not regulated
  - (e) The above results are based on composite testing as requested by client

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Test result:

Test Part Description :

Sample Description : Cast Iron Pulley + Bush (1SPZ 85/1210x24mm)

**Optional: RoHS Directive 2011/65/EU, priority substances**

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Hexabromocyclododecane (HBCDD)	mg/kg	Based on IEC 62321:2008 (Determination of HBCDD by GC-MS)	N.D.	10	-
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	Based on EN 14372:2004 (Determination of DEHP by GC-MS)	N.D.	30	-
Butyl benzyl phthalate (BBP)	mg/kg	Based on EN 14372:2004 (Determination of BBP by GC-MS)	N.D.	30	-
Dibutyl phthalate (DBP)	mg/kg	Based on EN 14372:2004 (Determination of DBP by GC-MS)	N.D.	30	-

Note:

- (a) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.
- (b) - = not regulated
- (c) The above results are based on composite testing as requested by client

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### Test Part Description :

Sample Description : Cast Iron Pulley + Bush (1SPZ 85/1210x24mm)

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**CTSSA/07496/14**



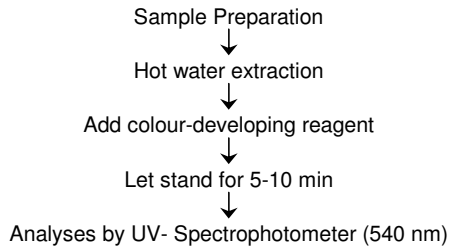
SGS authenticate the photo on original report only

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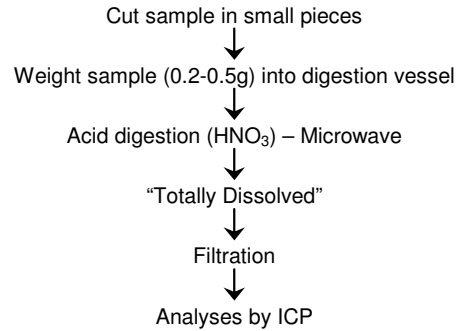
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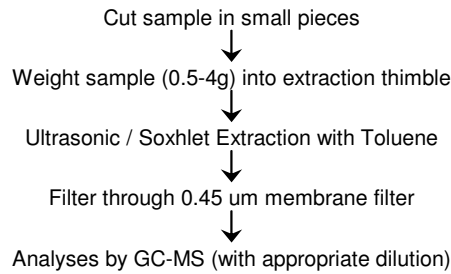
**1. DETERMINATION OF HEXAVALENT CHROMIUM BY JIS H 8625**



**2. MICROWAVE ASSISTED ACID DIGESTION OF ORGANICALLY BASED METRICES (US EPA 3051A)**



**3. DETERMINATION OF PBB/PBDE WITH GC-MS**



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### DETERMINATION OF HBCDD CONTENT

Cut sample in small pieces



Weight sample (0.5-4.0g) into extraction thimble



Soxhlet Extraction with Toluene



Filter through 0.45 um membrane filter



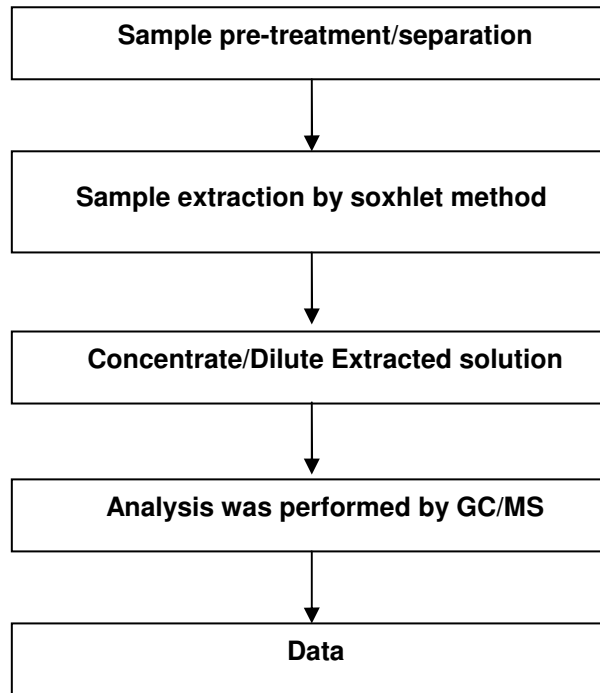
Analyses by GC-MS (with appropriate dilution)

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### Analytical flow chart of Phthalates Content



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

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