

## Test Report

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CHUNG TAI SING CHEMICAL INDUSTRY CO., LTD.  
105, NIU PU SOUTH ROAD, HSINCHU, TAIWAN, R. O. C.



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

Sample Description : PUFF DINO DRY FILM LUBRICANT FOR ROLLER CHAIN  
Style/Item No. : 恐龍 DA198 220ml  
Sample Receiving Date : 2010/04/29  
Testing Period : 2010/04/29 TO 2010/05/05

=====  
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321: 2008  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.  
(1) Determination of Cadmium by ICP-AES.  
(2) Determination of Lead by ICP-AES.  
(3) Determination of Mercury by ICP-AES.  
(4) Determination of Hexavalent Chromium by UV/Vis Spectrometry.  
(5) Determination of PBB and PBDE by GC/MS.

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

Conclusion : Based upon the performed tests by submitted samples, the test results **comply with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

**Chenyu Kung / Operation Manager**  
**Signed for and on behalf of**  
**SGS TAIWAN LTD.**  
**Chemical Laboratory – Taipei**

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Test results by chemical method (Unit: mg/kg)

| Test Item (s):                                       | Method<br>(Refer to) | Result | MDL | RoHS<br>Limit |
|--|----------------------|--------|-----|---------------|
|  |                      | No.1   |     |               |
| Cadmium (Cd)   | (1)                  | n.d.   | 2   | 100           |
| Lead (Pb)  | (2)                  | n.d.   | 2   | 1000          |
| Mercury (Hg)   | (3)                  | n.d.   | 2   | 1000          |
| Hexavalent Chromium Cr(VI) by<br>alkaline extraction | (4)                  | n.d.   | 2   | 1000          |
| <b>Sum of PBBs</b>                                   | (5)                  | n.d.   | -   | 1000          |
| Monobromobiphenyl                                    |                      | n.d.   | 5   | -             |
| Dibromobiphenyl                                      |                      | n.d.   | 5   | -             |
| Tribromobiphenyl                                     |                      | n.d.   | 5   | -             |
| Tetrabromobiphenyl                                   |                      | n.d.   | 5   | -             |
| Pentabromobiphenyl                                   |                      | n.d.   | 5   | -             |
| Hexabromobiphenyl                                    |                      | n.d.   | 5   | -             |
| Heptabromobiphenyl                                   |                      | n.d.   | 5   | -             |
| Octabromobiphenyl                                    |                      | n.d.   | 5   | -             |
| Nonabromobiphenyl                                    |                      | n.d.   | 5   | -             |
| Decabromobiphenyl                                    |                      | n.d.   | 5   | -             |
| <b>Sum of PBDEs</b>                                  |                      | n.d.   | -   | 1000          |
| Monobromodiphenyl ether                              |                      | n.d.   | 5   | -             |
| Dibromodiphenyl ether                                |                      | n.d.   | 5   | -             |
| Tribromodiphenyl ether                               |                      | n.d.   | 5   | -             |
| Tetrabromodiphenyl ether                             |                      | n.d.   | 5   | -             |
| Pentabromodiphenyl ether                             |                      | n.d.   | 5   | -             |
| Hexabromodiphenyl ether                              |                      | n.d.   | 5   | -             |
| Heptabromodiphenyl ether                             |                      | n.d.   | 5   | -             |
| Octabromodiphenyl ether                              |                      | n.d.   | 5   | -             |
| Nonabromodiphenyl ether                              | n.d.                 | 5      | -   |               |
| Decabromodiphenyl ether                              | n.d.                 | 5      | -   |               |

## TEST PART DESCRIPTION:

NO.1 : TRANSPARENT LIQUID

- Note :
1. mg/kg = ppm; 0.1wt% = 1000ppm
  2. n.d. = Not Detected
  3. MDL = Method Detection Limit
  4. "-" = Not Regulated

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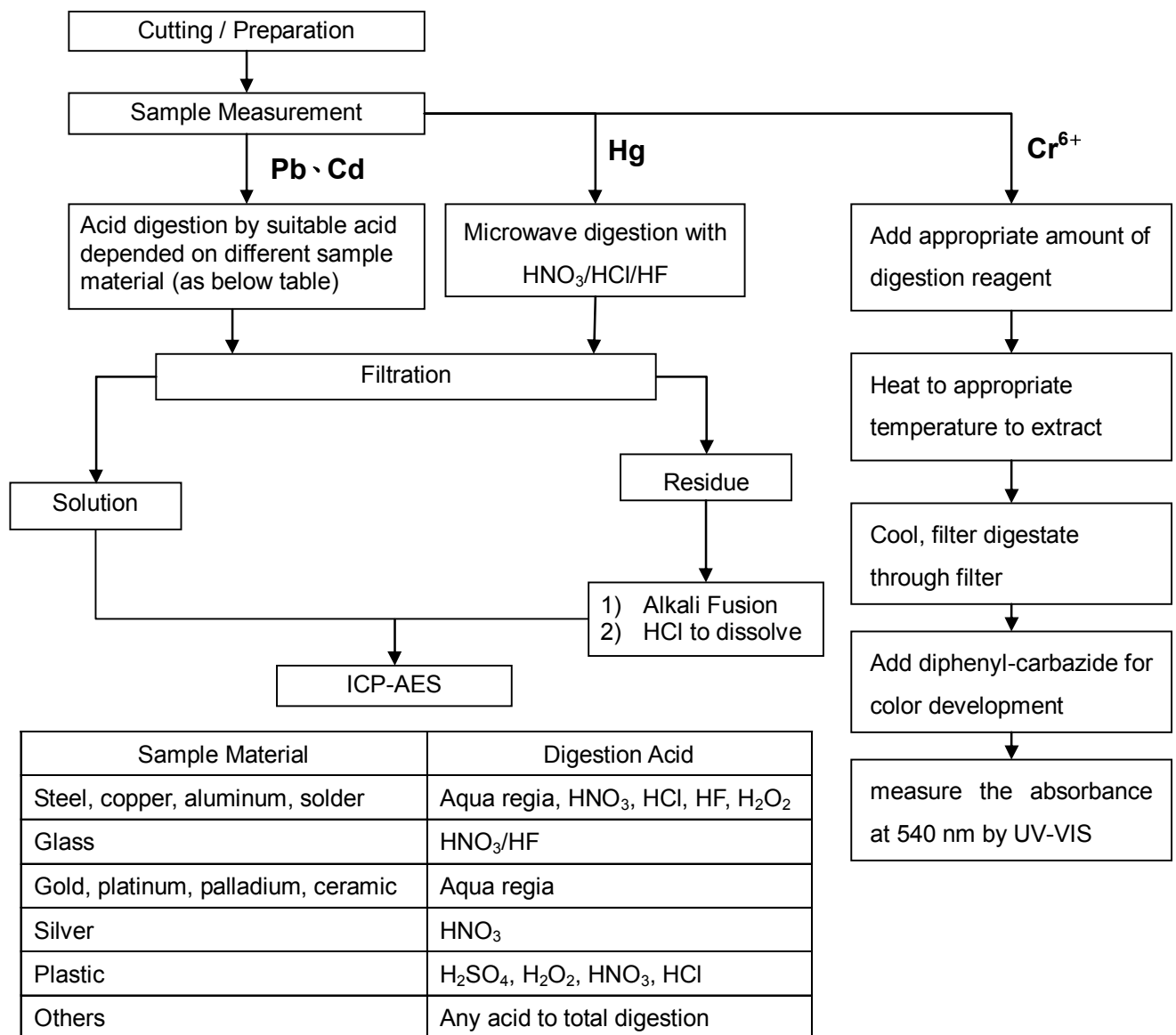
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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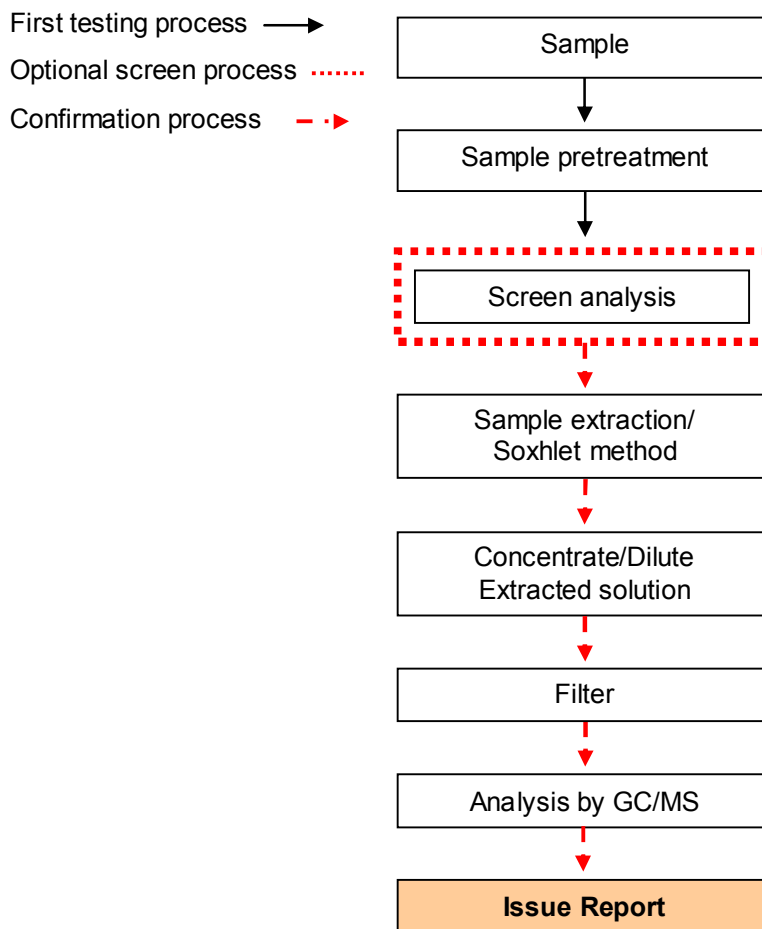
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### PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Troy Chang



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\*\* End of Report \*\*

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