

Test Report

No. : CE/2011/44583 Date : 2011/04/29 Page : 1 of 8

JIA RONG CHEMICAL ENTERPRISE LTD.
NO. 1, BEIYUAN 2ND RD., ZHONGLI CITY, TAOYUAN COUNTY 320,
TAIWAN (R. O. C.)



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

| | | |
|-----------------------|---|--------------------------|
| Sample Description | : | 中粗化安定劑 |
| Style/Item No. | : | RH-2300 |
| Sample Receiving Date | : | 2011/04/22 |
| Testing Period | : | 2011/04/22 TO 2011/04/29 |

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


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

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Test Report

No. : CE/2011/44583 Date : 2011/04/29 Page : 2 of 8

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Test Result(s)

PART NAME No.1 : TRANSPARENT-BROWN LIQUID

| Test Item (s): | Unit | Method | MDL | Result No.1 |
|---|-------|--|-----|----------------|
| Cadmium (Cd) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Mercury (Hg) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. |
| Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide) | mg/kg | With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS. | 10 | n.d. |
| PFOA (CAS No.: 335-67-1) | mg/kg | With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS. | 10 | n.d. |
| Halogen | | | | |
| Halogen-Fluorine (F) (CAS No.: 14762-94-8) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. |
| Halogen-Chlorine (Cl) (CAS No.: 22537-15-1) | | | 50 | 798 |
| Halogen-Bromine (Br) (CAS No.: 10097-32-2) | | | 50 | n.d. |
| Halogen-Iodine (I) (CAS No.: 14362-44-8) | | | 50 | n.d. |

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Test Report

No. : CE/2011/44583 Date : 2011/04/29 Page : 3 of 8

JIA RONG CHEMICAL ENTERPRISE LTD.

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TAIWAN (R. O. C.)



| Test Item (s): | Unit | Method | MDL | Result No.1 |
|--------------------------|-------|--|-----|----------------|
| Sum of PBBs | mg/kg | With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. |
| Monobromobiphenyl | | | 5 | n.d. |
| Dibromobiphenyl | | | 5 | n.d. |
| Tribromobiphenyl | | | 5 | n.d. |
| Tetrabromobiphenyl | | | 5 | n.d. |
| Pentabromobiphenyl | | | 5 | n.d. |
| Hexabromobiphenyl | | | 5 | n.d. |
| Heptabromobiphenyl | | | 5 | n.d. |
| Octabromobiphenyl | | | 5 | n.d. |
| Nonabromobiphenyl | | | 5 | n.d. |
| Decabromobiphenyl | | | 5 | n.d. |
| Sum of PBDEs | | | - | n.d. |
| Monobromodiphenyl ether | | | 5 | n.d. |
| Dibromodiphenyl ether | | | 5 | n.d. |
| Tribromodiphenyl ether | | | 5 | n.d. |
| Tetrabromodiphenyl ether | | | 5 | n.d. |
| Pentabromodiphenyl ether | | | 5 | n.d. |
| Hexabromodiphenyl ether | | | 5 | n.d. |
| Heptabromodiphenyl ether | | | 5 | n.d. |
| Octabromodiphenyl ether | | | 5 | n.d. |
| Nonabromodiphenyl ether | | | 5 | n.d. |
| Decabromodiphenyl ether | | | 5 | n.d. |

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

PFOS Reference Information : Directive 2006/122/EC

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.

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Test Report

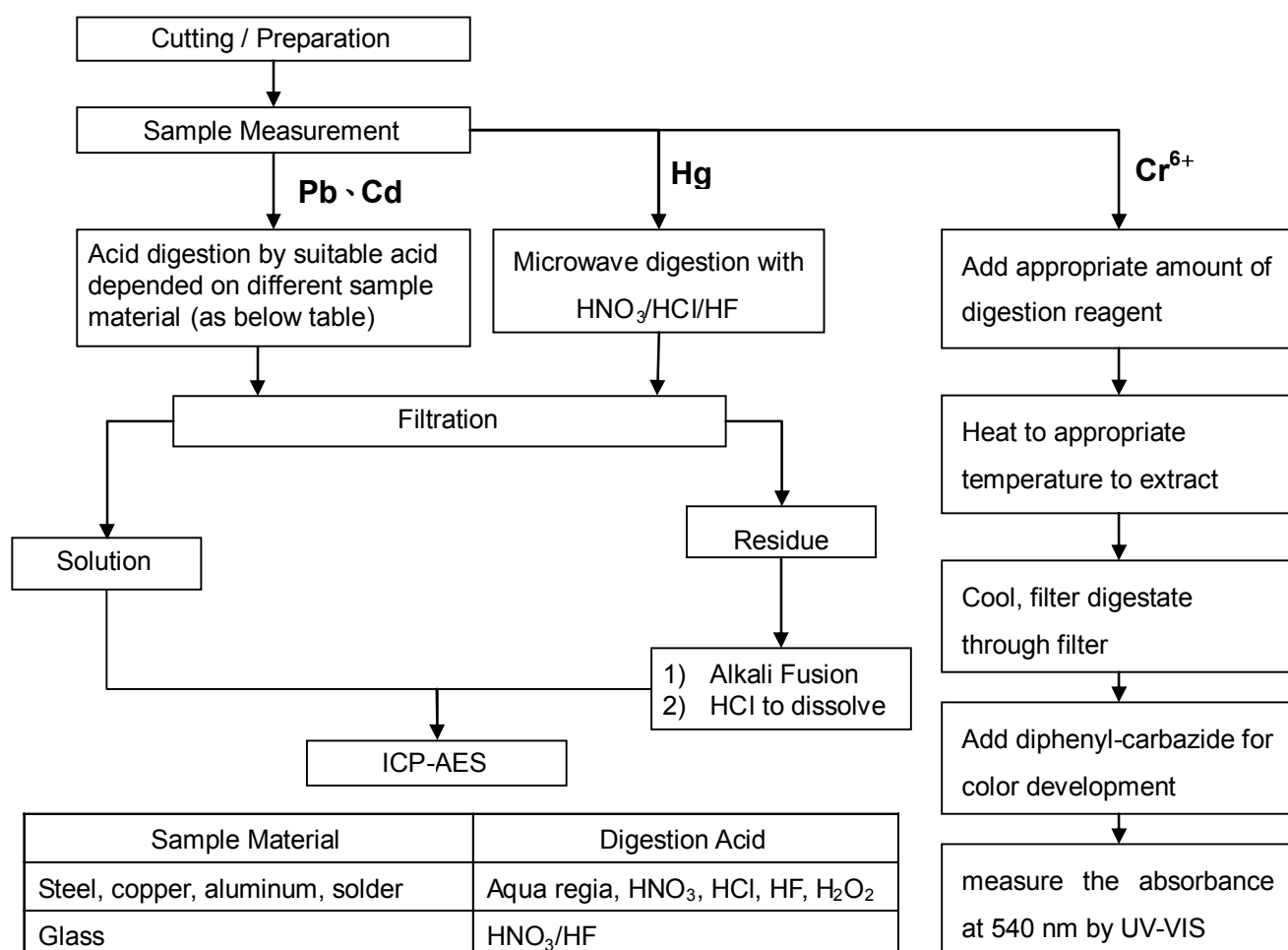
No. : CE/2011/44583 Date : 2011/04/29 Page : 4 of 8

JIA RONG CHEMICAL ENTERPRISE LTD.

NO. 1, BEIYUAN 2ND RD., ZHONGLI CITY, TAOYUAN COUNTY 320,
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



| Sample Material | Digestion Acid |
|------------------------------------|---|
| Steel, copper, aluminum, solder | Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂ |
| Glass | HNO ₃ /HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | HNO ₃ |
| Plastic | H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl |
| Others | Any acid to total digestion |

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Test Report

No. : CE/2011/44583 Date : 2011/04/29 Page : 5 of 8

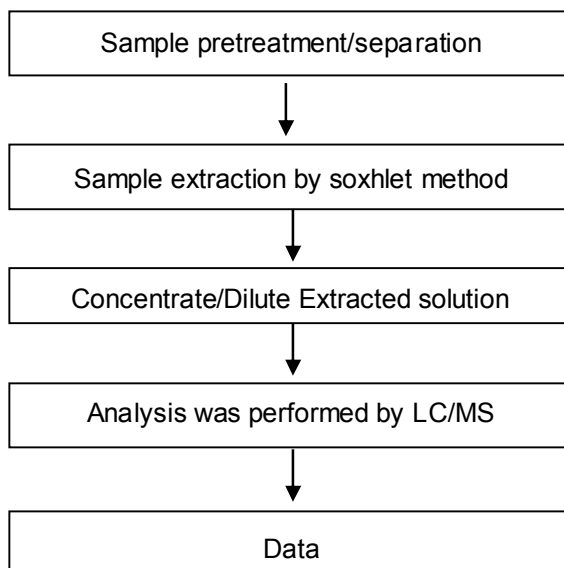
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TAIWAN (R. O. C.)



Analytical flow chart of Soxhlet extraction (LC/MS) procedure

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

■ Test Items: PFOS/PFOA、Benzotriazole



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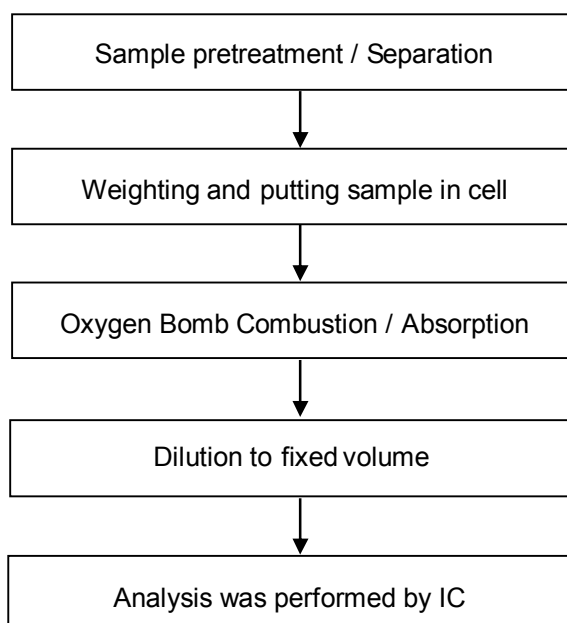
No. : CE/2011/44583 Date : 2011/04/29 Page : 6 of 8

JIA RONG CHEMICAL ENTERPRISE LTD.
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Analytical flow chart of halogen content

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



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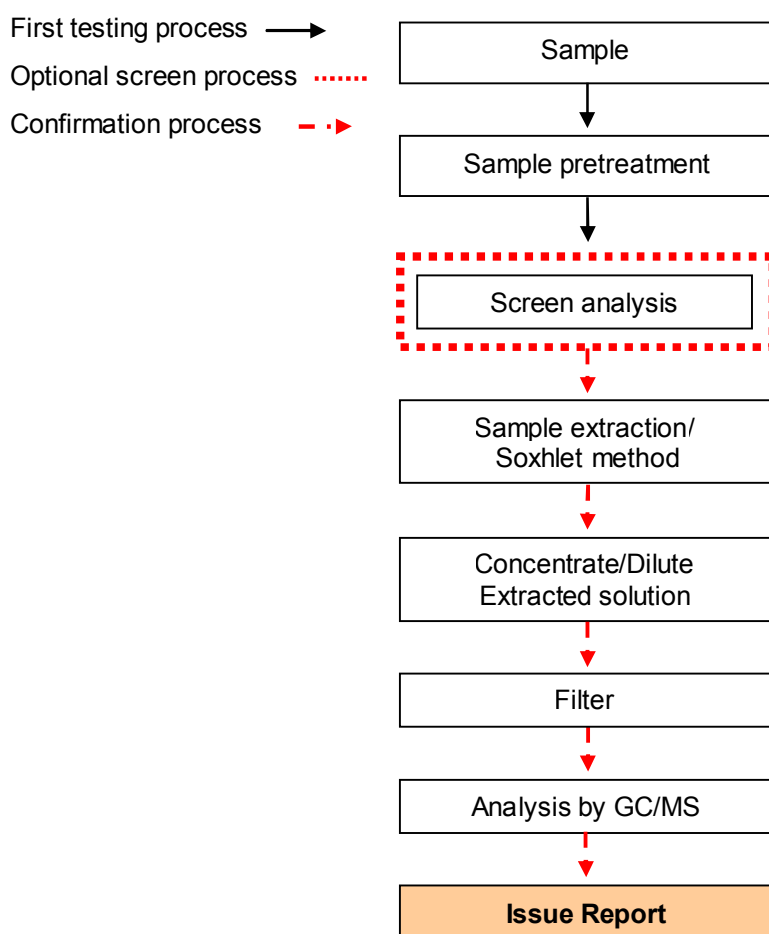
No. : CE/2011/44583 Date : 2011/04/29 Page : 7 of 8

JIA RONG CHEMICAL ENTERPRISE LTD.
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TAIWAN (R. O. C.)



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



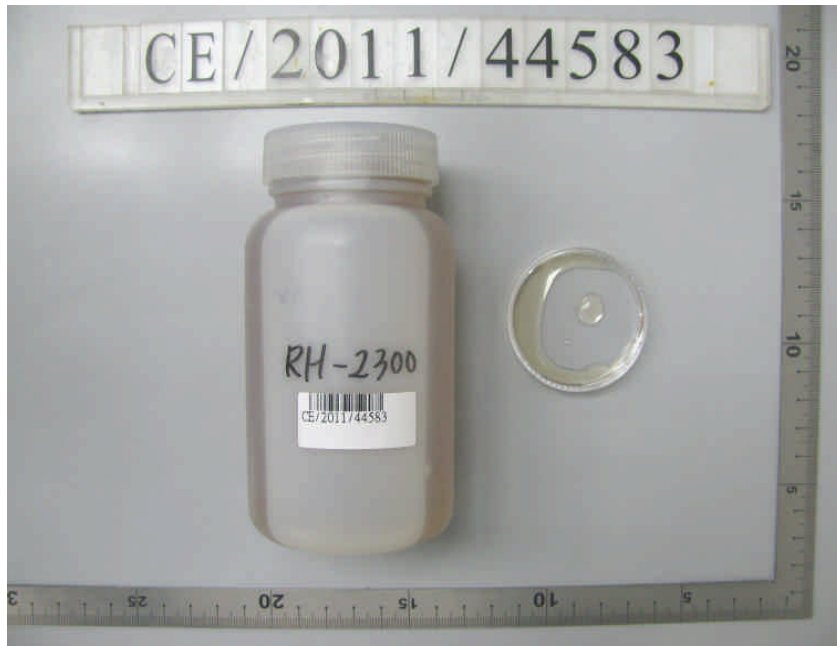
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Test Report

No. : CE/2011/44583 Date : 2011/04/29 Page : 8 of 8

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** End of Report **

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