# Certificate of Composition

European Union Directive 2002/95EC – RoHS

## Bergquist Product: Hi-Flow 300P

The Bergquist Company hereby certifies that, as of the date indicated below, to the best of our knowledge and belief, the above-named product is in compliance with European Union Directive 2002/95/EC (Restrictions on Hazardous Substances). In addition, none of our processes would allow these substances to appear in the final product.

Due to our corporate documentation preparation standards, requests for certification beyond the parameters of the RoHS Directive will only be prepared upon presentation of a demonstrated business need. In addition, requests for full composition information will *not be fulfilled* as this could compromise our intellectual property rights. United States import and export regulations also may place licensing and other restrictions on the dissemination of proprietary information.

Attached to this statement is the third-party testing report for this product. If you have further questions, please contact your sales representative.

The Bergquist Company

Sincerely,



Jerry Schmitz
Product Manager
The Bergquist Company
Telephone: 952.835.2322
Toll free in U.S. 800.347.4572
Thermal Products Group

Dated: August 11, 2006

**Test Report** 1219403 Date : 11-Aug-2006 **Page 1 of 9**

**Client : The Bergquist Company**
**18930 West 78 th Street**
**Chanhassen MN 55317 U.S.A.**

The below sample submitted by client as:

Sample Description : Hi-Flow 300P
Sample No. : 1240942
Sample Condition : As per attached photograph

Date Received : 7-Aug-2006 Date Commenced : 7-Aug-2006

Test Results : Please see the attached sheet.

**Signed for and on behalf of**
**SGS (Thailand) Limited**

**Pornpana Lirathpong**
**Hardlines Testing Manager**

920924

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## TEST RESULTS

**With Reference to Directive 2002/95/EC**

| Analysis | Pre-Conditioning Method | Measurment Method | Unit | DL | Result |
|---|---|---|---|---|---|
| Lead (Pb) | EPA 3050B hot plate acid digested | ICP-OES | ppm | 2 | N.D. |
| Cadmium (Cd) | BS EN 1122 Method B | ICP-OES | ppm | 2 | N.D. |
| Mercury (Hg) | EPA 3052 | ICP-OES | ppm | 2 | N.D. |
| Hexavalent Chromium (Cr VI) | EPA 3060A, 7196A | UV-VIS Spectrometer | ppm | 2 | N.D. |

Remarks : 1. Results shown are based on the total weight of dry sample.
2. ppm = part per million = mg/kg
3. DL = detection limit
4. N.D. = not detected at the detection limit
5. Result of green rubber (Hi-Flow 300P)

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## TEST RESULTS

| Analysis | Pre-Condition Method | Measurement Method | Unit | DL | Result |
|---|---|---|---|---|---|
| Polybrominated biphenyls (PBBs) | - | - | - | - | - |
| - Bromobiphenyl | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Dibromobiphenyl | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Tribromobiphenyl | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Tetrabromobiphenyl | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Pentabromobiphenyl | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Hexabromobiphenyl | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Heptabromobiphenyl | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Octabromobiphenyl | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Nonabromobiphenyl | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Decabromobiphenyl | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |

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## TEST RESULTS

| Analysis | Pre-Conditioning Method | Measurement Method | Unit | DL | Result |
|---|---|---|---|---|---|
| Polybrominated diphenyl ethers (PBDEs) | - | - | - | - | - |
| - Bromodiphenyl ether | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Dibromodiphenyl ether | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Tribromodiphenyl ether | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Tetrabromodiphenyl ether | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Pentabromodiphenyl ether | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Hexabromodiphenyl ether | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Heptabromodiphenyl ether | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Octabromodiphenyl ether | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Nonabromodiphenyl ether | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |
| - Decabromodiphenyl ether | With reference to US EPA 3540C | GC-ECD/GC-MS/ LC-MS | ppm | 5 | N.D. |

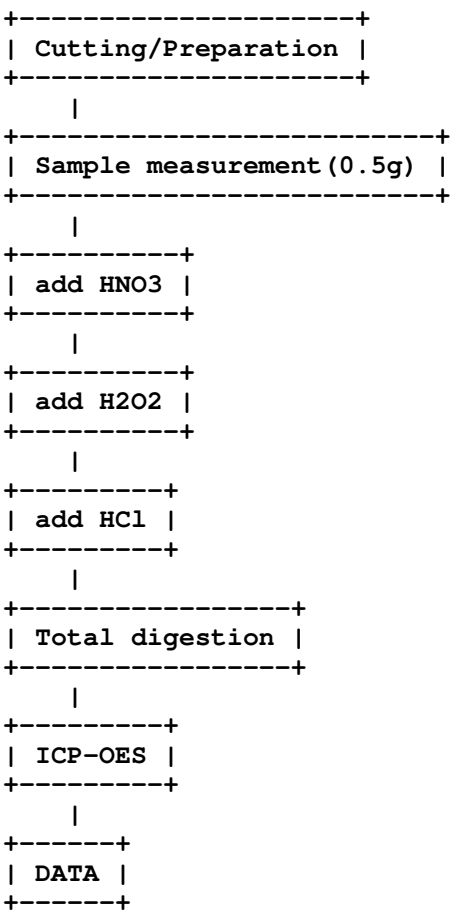
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********** End of Report **********

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**Flow chart of digestion (EPA 3050 for Pb)**



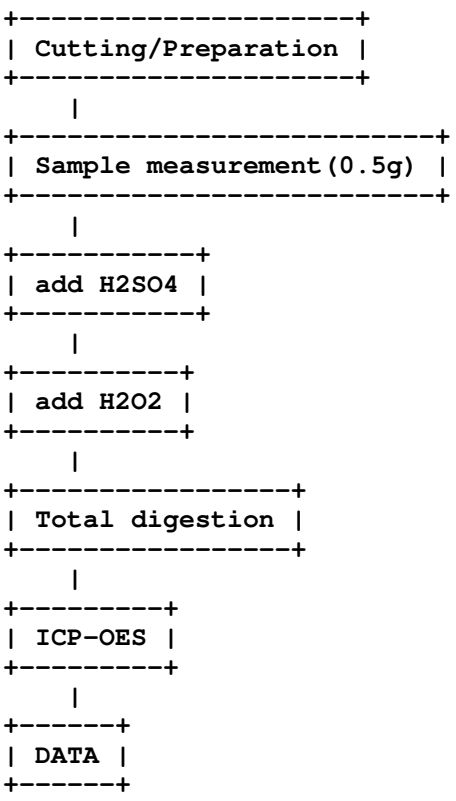

**The samples were dissolved totally by pre-conditioning method according to above flow chart.**

**Operator : Saksit Iadsang**
**Section Chief : Rutchuporn Moungsom**

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**Flow chart of digestion (EN 1122 for Cd)**



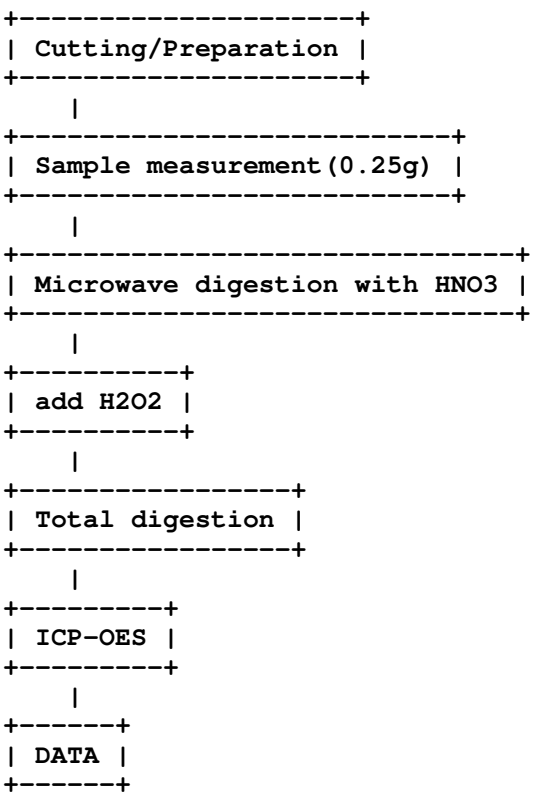

**The samples were dissolved totally by pre-conditioning method according to above flow chart.**

**Operator : Saksit Iadsang**
**Section Chief : Rutchuporn Moungsom**

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**Flow chart of digestion (EPA 3052 for Hg)**



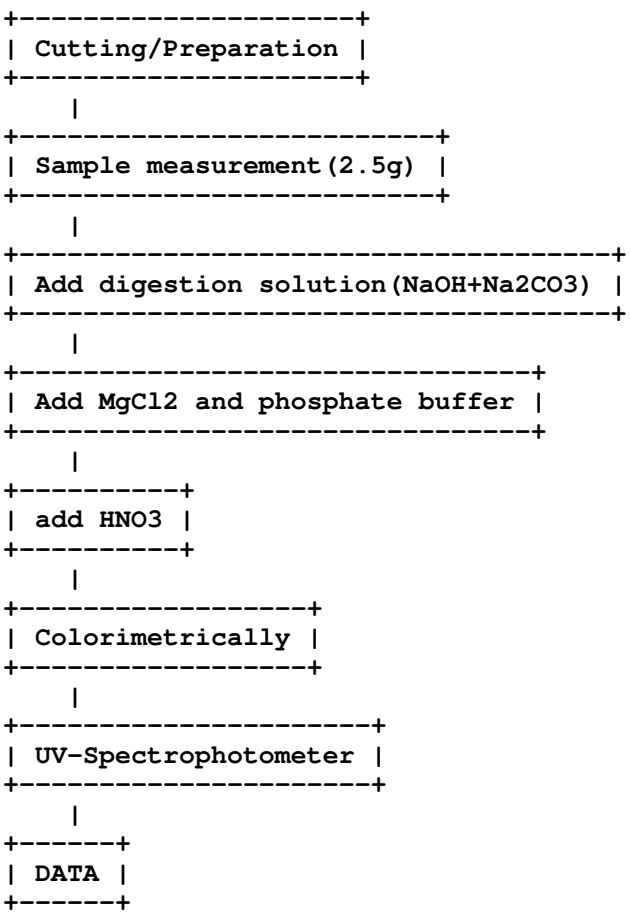

**The samples were dissolved totally by pre-conditioning method according to above flow chart.**

**Operator : Saksit Iadsang**
**Section Chief : Rutchuporn Moungsom**

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**Flow chart of digestion (EPA 3060,7196 for Cr(VI))**




**Operator : Jintanarat Lummoon**
**Section Chief : Rutchuporn Moungsom**

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**SAMPLE PICTURE**




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