



## **Certificate of Composition**

European Union Directive 2002/95EC – RoHS

### **Bergquist Product: Hi-Flow 225F-AC**

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,

A handwritten signature in black ink that reads "Jerry Schmitz".

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

Dated: August 17, 2006

**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 225F-AC  
Sample No. : 1242558  
Sample Condition : As per attached photograph  
Date Received : 10-Aug-2006 Date Commenced : 10-Aug-2006  
Test Results : Please see the attached sheet.

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



**Pornpana Lirathpong  
Hardlines Testing Manager**

**TEST RESULTS**

With reference to Directive 2002/95/EC

Analysis	Method	Instrument	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 metal / black rubber clear plastic / grey rubber (Hi-Flow 225F-AC)

TEST RESULTS

Analysis	Method	Instrument	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.

- 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 metal / black rubber (Hi-Flow 225F-AC)

TEST RESULTS

Analysis	Method	Instrument	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.

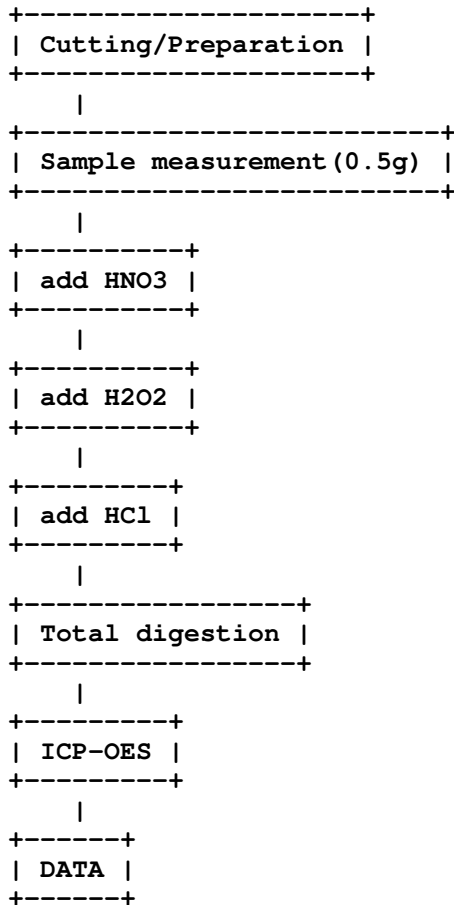
- Remarks :
1. Results shown are based on the total weight of dry sample.
  2. ppm = part per million = mg/kg
  3. DL = detection limit
  4. N.D. = not detected at the detection limit
  5. Result of metal / black rubber (Hi-Flow 225F-AC)

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

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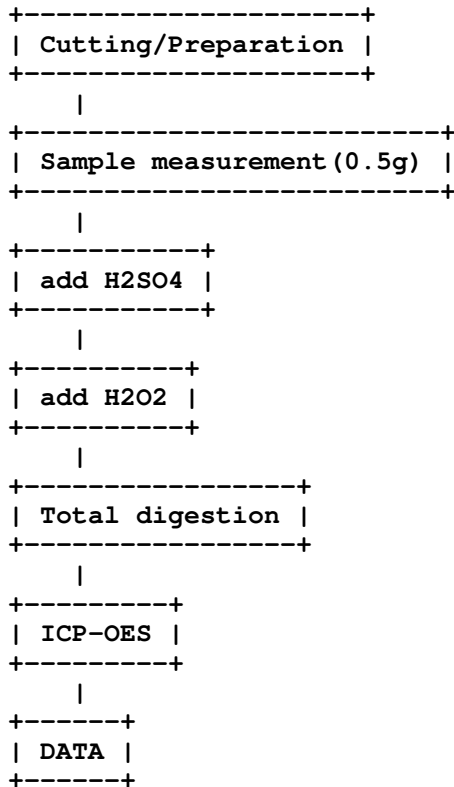
Flow chart of digestion (EPA 3050 for Pb)



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

Operator : Saksit Iadsang  
 Section Chief : Wanwisa Saekow

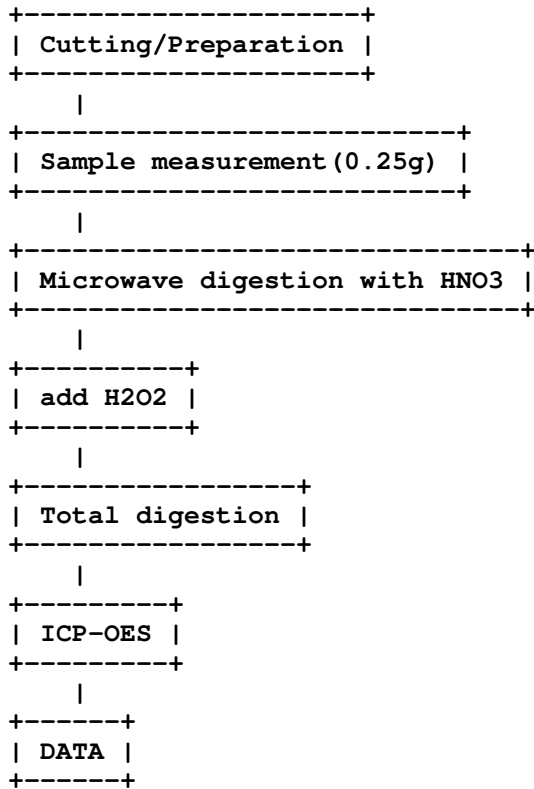
Flow chart of digestion (EN 1122 for Cd)



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

Operator : Saksit Iadsang  
 Section Chief : Wanwisa Saekow

Flow chart of digestion (EPA 3052 for Hg)

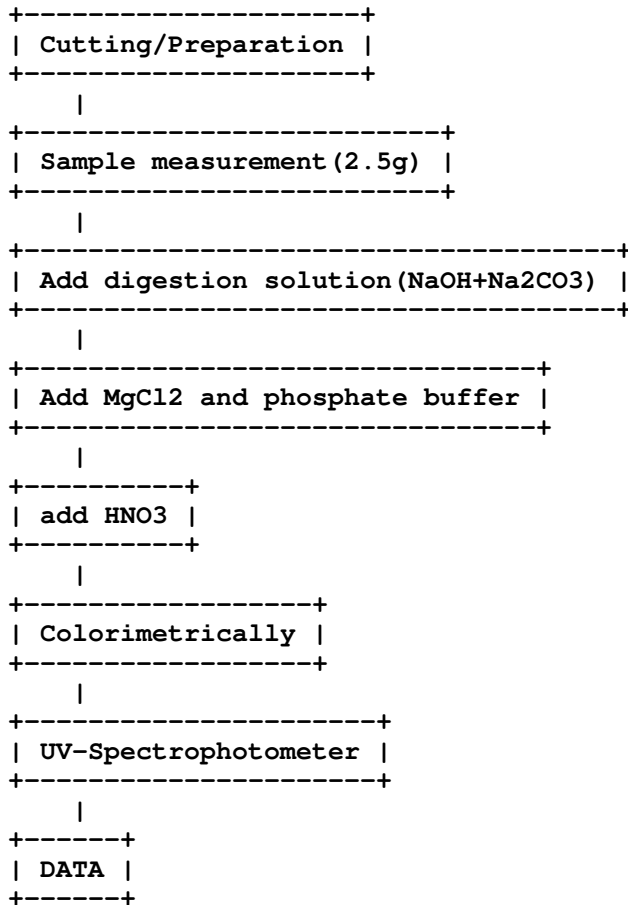


The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Saksit Iadsang  
Section Chief : Wanwisa Saekow



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



Operator : Jintanarat Lummoon  
Section Chief : Wanwisa Saekow

SAMPLE PICTURE

