

Test Report

No: 10388637(1)

Date: 16-Feb-16

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Kester Inc
800W Thorndale Avenue Itasca IL 60143-1341 USA

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

Sample Name : Kester 959


Sample Receiving Date : 05-Feb-16
Testing Period : 05-Feb-16 to 16-Feb-16

Test Requested : In accordance with the Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Conclusion : Based on the performed tests on submitted sample(s), the results **comply with** the Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd



Y.C. Tham
Laboratory Manager

Test Location: 3 Toh Tuck Link, #01-02, Singapore 596228

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Test Result(s):

Sample Description : Colorless liquid

| Test Item(s): | Unit | Method | Results | MDL | RoHS Limit |
|------------------------------|-------|---|-------------|-----|------------|
| Cadmium(Cd) | mg/kg | With reference to IEC62321-5 :2013. Analysis was performed by ICP/AES | n.d. | 2 | 100 |
| Lead (Pb) | mg/kg | With reference to IEC62321-5 :2013. Analysis was performed by ICP/AES | n.d. | 2 | 1000 |
| Mercury (Hg) | mg/kg | With reference to IEC62321-4 :2013. Analysis was performed by ICP/AES | n.d. | 2 | 1000 |
| Hexavalent Chromium (Cr(VI)) | mg/kg | With reference to IEC62321, Ed1:2008. Analysis was performed by UV/Vis Spectrometry | n.d. | 2 | 1000 |
| Sum of PBBs | mg/kg | With reference to IEC62321-6 :2015. Analysis was performed by GC/MS | n.d. | - | 1000 |
| Monobromobiphenyl | mg/kg | | n.d. | 5 | - |
| Dibromobiphenyl | mg/kg | | n.d. | 5 | - |
| Tribromobiphenyl | mg/kg | | n.d. | 5 | - |
| Tetrabromobiphenyl | mg/kg | | n.d. | 5 | - |
| Hexabromobiphenyl | mg/kg | | n.d. | 5 | - |
| Pentabromobiphenyl | mg/kg | | n.d. | 5 | - |
| Heptabromobiphenyl | mg/kg | | n.d. | 5 | - |
| Octabromobiphenyl | mg/kg | | n.d. | 5 | - |
| Nonabromobiphenyl | mg/kg | | n.d. | 5 | - |
| Decabromobiphenyl | mg/kg | | n.d. | 5 | - |
| Sum of PBDEs | mg/kg | | n.d. | - | 1000 |
| Monobromodiphenyl ether | mg/kg | | n.d. | 5 | - |
| Dibromodiphenyl ether | mg/kg | | n.d. | 5 | - |
| Tribromodiphenyl ether | mg/kg | | n.d. | 5 | - |
| Tetrabromodiphenyl ether | mg/kg | | n.d. | 5 | - |
| Pentabromodiphenyl ether | mg/kg | | n.d. | 5 | - |
| Hexabromodiphenyl ether | mg/kg | | n.d. | 5 | - |
| Heptabromodiphenyl ether | mg/kg | | n.d. | 5 | - |
| Octabromodiphenyl ether | mg/kg | | n.d. | 5 | - |
| Nonabromodiphenyl ether | mg/kg | n.d. | 5 | - | |
| Decabromodiphenyl ether | mg/kg | n.d. | 5 | - | |

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Test Result(s):

Sample Description : Colorless liquid

| Test Item(s): | Unit | Method | Results | MDL | Limit |
|------------------------------------|-------|--|---------|-----|-------|
| BBP (Benzyl butyl phthalate) | mg/kg | With reference to USEPA 3540C & 8270D. Analysis was performed by GC/MS | n.d. | 30 | 1000 |
| DBP (Di-butyl phthalate) | mg/kg | With reference to USEPA 3540C & 8270D. Analysis was performed by GC/MS | n.d. | 30 | 1000 |
| DEHP (Di-(2-ethylhexyl) phthalate) | mg/kg | With reference to USEPA 3540C & 8270D. Analysis was performed by GC/MS | n.d. | 30 | 1000 |
| DIBP (Di-isobutyl Phthalate) | mg/kg | With reference to USEPA 3540C & 8270D. Analysis was performed by GC/MS | n.d. | 30 | 1000 |

Note: (1) mg/kg = ppm ; 0.1wt% = 1000ppm
 (2) n.d.= Not Detected
 (3) MDL = Method Detection Limit
 (4) "-" = Not regulated
 (5) * : Exceeds limit
 (6) Reference information: The limits of Benzyl butyl phthalate (BBP), Di-butyl phthalate (DBP), Di-(2-ethylhexyl) phthalate (DEHP), Di-isobutyl phthalate (DIBP) as set by G/TBT/N/EU/256 of WTO/TBT .

Remarks: Sample received was totally dissolved by preconditioning method.
 Lab Analyst(s): Chin , Pheng and ZH

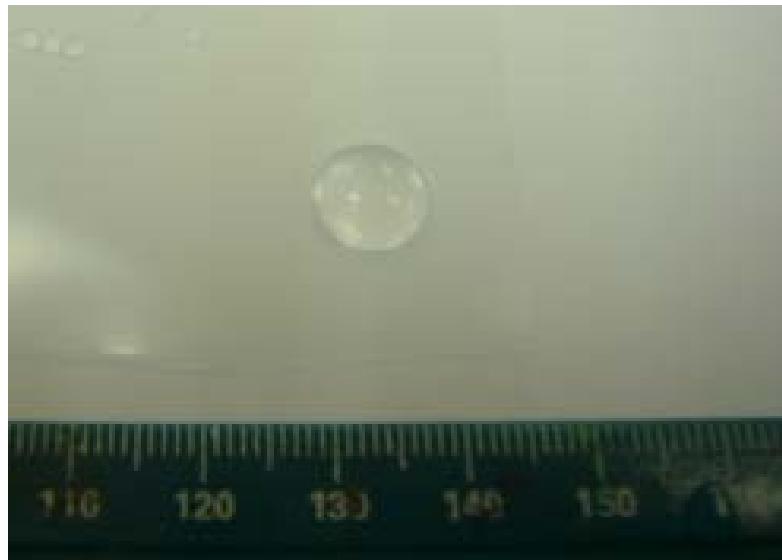
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Sample photo:

Sample Description : Colorless liquid

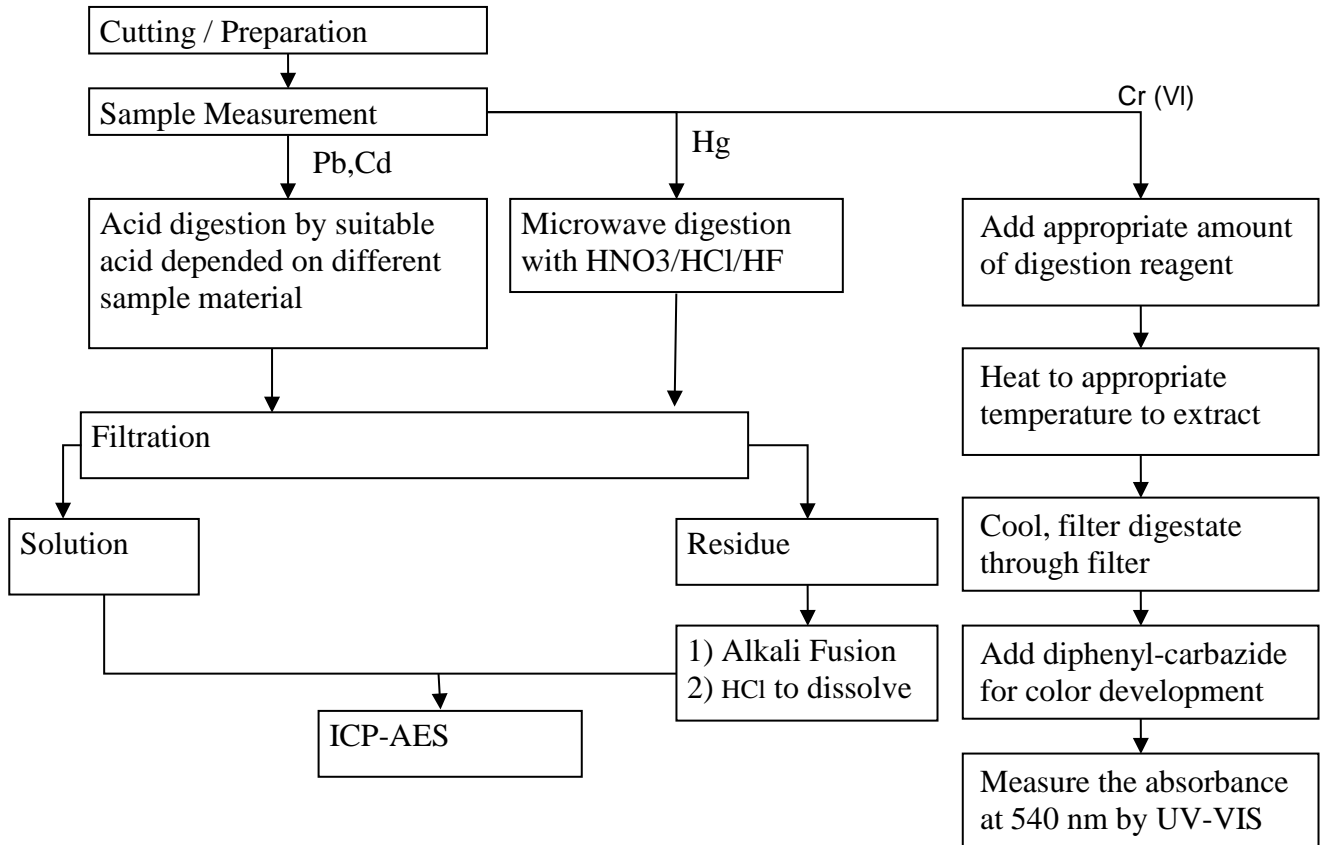
SGS authenticate the photo on original report only



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Process Flow of IEC 62321 (Pb, Cd, Hg & Cr(VI))



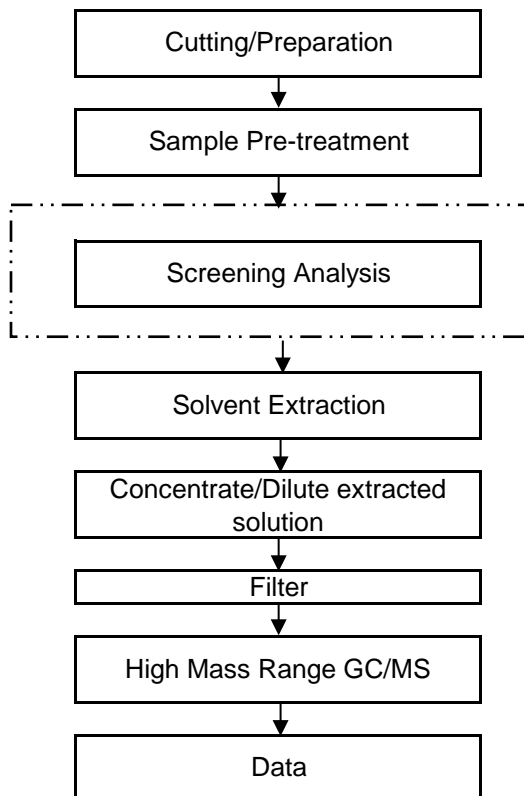
Remarks: Sample received was totally dissolved by preconditioning method. (CrVI method excluded)

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Process Flow of PBBs and PBDEs by GC/MS (IEC 62321)

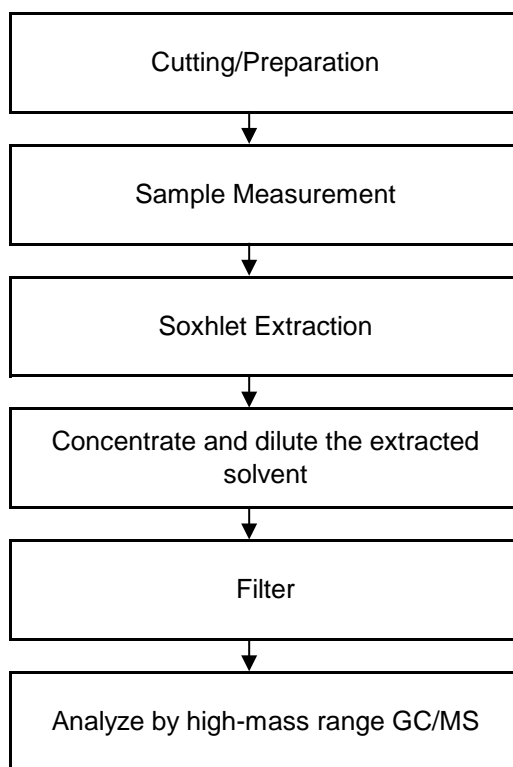
First Testing Process → Optional screen process Confirmation process ...→



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Process Flow of Phthalate Analysis



End of Report

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