



Test Report

No.: IDHG98315

Date : 09-June-2016

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PT. DAMASES SEJAHTERA GADING PERMAI BLOK AZ NO.19-20 RT05/10, GROGOL SUKOHARJO

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

Sample Description : Silica Gel White
Job No. : 98315
Part No. : -
Batch/Lot No. : -
Color : -
Manufacturer/Vendor : -
Buyer's Name : -
Country of Destination : -
Country of Origin : -
Data Received : 27-May-2016
Testing Period : 27-May-2016 to 09-June-2016

Test Requested : As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDE) and other test content in the submitted sample.

Test Method(s) : Please refer to next page(s)

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

Conclusion : Based on the performed test on selected part of submitted samples, the result of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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Signed for and on behalf of

P.T. SGS Indonesia

Toto Waluyadi

Chemical Lab Assistant Manager

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TEST RESULTS

RoHS Directive 2011/65/EU Annex II

Test Item(s)	Unit	Method	Result	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 and performed by ICP-OES	n.d	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 and performed by ICP-OES	n.d	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 and performed by ICP-OES	n.d	2	1000
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321:2008 and performed by UV-VIS Spectrophotometer	n.d	2	1000
Sum of PBBs	mg/kg	With reference to IEC 62321:2008 and performed by GC-MS	n.d	-	1000
Monobromodiphenyl	mg/kg		n.d	5	-
Dibromobiphenyl	mg/kg		n.d	5	-
Tribromobiphenyl	mg/kg		n.d	5	-
Tetrabromobiphenyl	mg/kg		n.d	5	-
Pentabromobiphenyl	mg/kg		n.d	5	-
Hexabromobiphenyl	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 Item(s)	Method	Unit	MDL	Result
Dimethyl Fumate (CAS No.:624-49-7)	In House Method-solvent extraction. Analysis was performed by GC MS	mg/kg	0.1	n.d.

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

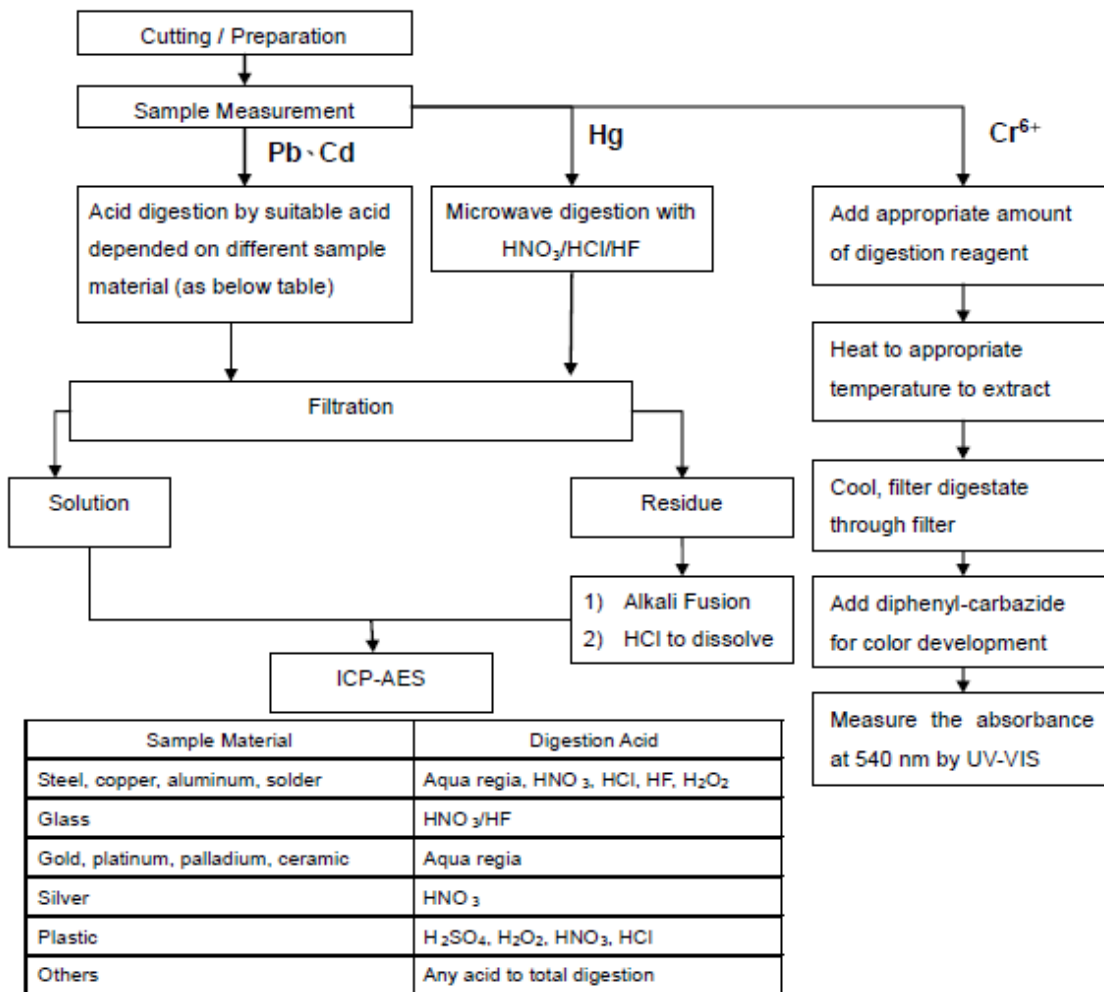
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- 1) These sample were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement : M.Y. Suryanata K
- 3) Name of the person in charge of measurement : Ade Apriliani



Note :** (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 °C.
 (2) For metallic material, add pure water and heat to boiling.

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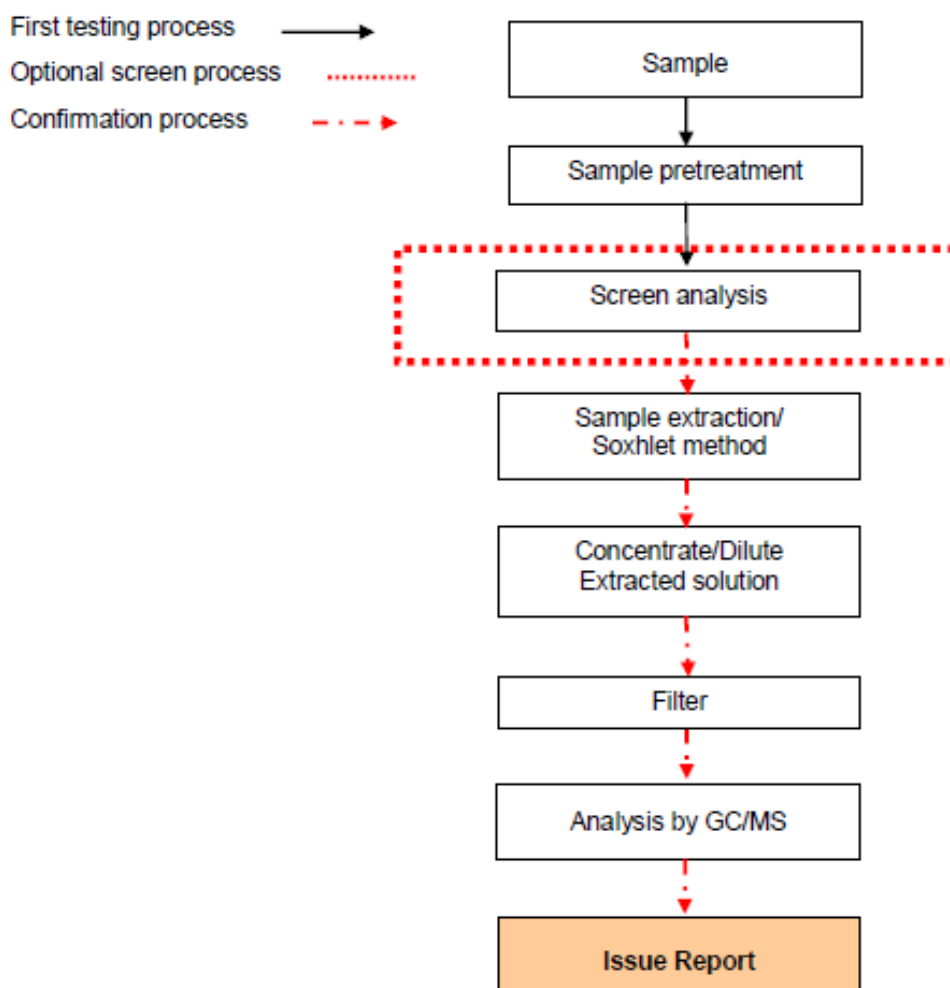
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PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement : M.Y. Suryanata K
- 2) Name of the person in charge of measurement : Ade Apriliani



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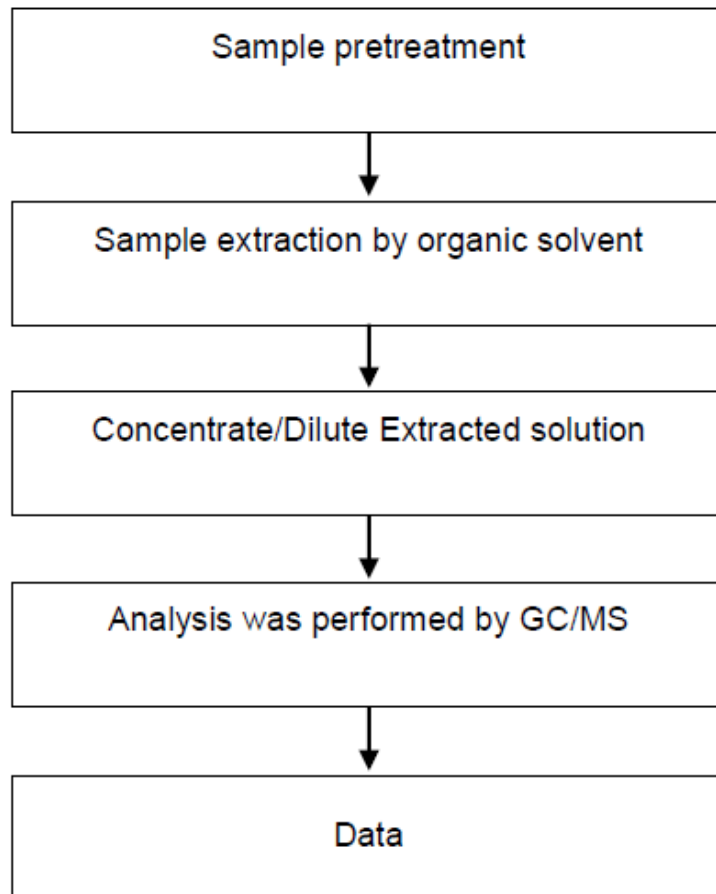
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Analytical flow chart of Dimethyl Fumarate content

- 1) Name of the person who made measurement : M.Y. Suryanata K.
- 2) Name of the person in charge of measurement : Ade Apriliani



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Sample Picture



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

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