



INTERNATIONAL TESTING SERVICE CO., LTD.

Head Office 1213/388 Soi Ladpraw 94 (Panjamitr), Ladpraw Rd.,
Phlabphla, Wangthonglang, Bangkok 10310
Tel. 02-559-2095 Fax. 02-559-2096
E-mail: sale@itest-lab.com website: www.itest-lab.com

TEST REPORT

Test Report No. **R-T-2203-047** Issue Date: **14-March-2022**

Client Name **THE SIAM CHEMICALS PUBLIC CO., LTD.**

Address **196 MOO.1, SUKSAWAD RD., PAKKLONGBABGPRAKOD,
PRASAMUTJEDEE, SAMUTPRAKARN 10290**

Part Name **SULPHUR POWDER**

Batch/Lot No. **005/22**

Part No. -

Part Description -

Color -

Material -

Manufacturer Name -

Test Requested In accordance with the RoHS Directive 2011/65/EU Annex II
[amended by Directive (EU) 2015/863]

Test Method

- (1) IEC 62321-5 edition 1.0 : 2013 for Lead content,
Analyzed by ICP-OES.
- (2) IEC 62321-5 edition 1.0 : 2013 for Cadmium content,
Analyzed by ICP-OES.
- (3) IEC 62321-4 edition 1.0 : 2013 for Mercury content,
Analyzed by ICP-OES.
- (4) IEC 62321-7-2 edition 1.0 : 2017 for Hexavalent Chromium Content,
Analyzed by UV/Vis Spectrometry.
- (5) IEC 62321-6 edition 1.0 : 2015 for PBBs & PBDEs content,
Analyzed by GC/MS.
- (6) IEC 62321-8 edition 1.0 : 2017, for Phthalate content,
Analyzed by GC/MS.

Test Results Please refer to next page.

Date Received **03-March-2022**

Testing Period **03-March-2022 to 14-March-2022**

Tested By

Approved By

(Sansanee Kaewnin)
Laboratory Technician

(Jutarat Unkham)
Laboratory/Technical Manager

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The Results shown in this test report refer only to the sample(s) tested unless otherwise stated
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Test Results 1

Test Item (s)	Method (Refer to)	Unit	LOQ	Results	RoHS Limit
Lead (Pb)	(1)	mg/kg	3	ND	1,000
Cadmium (Cd)	(2)	mg/kg	2	ND	100
Mercury (Hg)	(3)	mg/kg	3	ND	1,000
Hexavalent Chromium (Cr(VI))	(4)	mg/kg	2	ND	1,000

Remark:

- (a) mg/kg = ppm (part per million)
- (b) LOQ = Limit of Quantitation
- (c) ND = Not Detected
- (d) Test Result: Chemical Powder



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Test Results 2

Test Item (s)	Method (Refer to)	Unit	LOQ	Results	RoHS Limit
Sum of PBBs	(5)	mg/kg	-	ND	1,000
Monobromobiphenyl		mg/kg	5	ND	-
Dibromobiphenyl		mg/kg	5	ND	-
Tribromobiphenyl		mg/kg	5	ND	-
Tetrabromobiphenyl		mg/kg	5	ND	-
Pentabromobiphenyl		mg/kg	5	ND	-
Hexabromobiphenyl		mg/kg	5	ND	-
Heptabromobiphenyl		mg/kg	5	ND	-
Octabromobiphenyl		mg/kg	5	ND	-
Nonabromobiphenyl		mg/kg	5	ND	-
Decabromobiphenyl		mg/kg	5	ND	-
Sum of PBDEs	(5)	mg/kg	-	ND	1,000
Monobromodiphenyl ether		mg/kg	5	ND	-
Dibromodiphenyl ether		mg/kg	5	ND	-
Tribromodiphenyl ether		mg/kg	5	ND	-
Tetrabromodiphenyl ether		mg/kg	5	ND	-
Pentabromodiphenyl ether		mg/kg	5	ND	-
Hexabromodiphenyl ether		mg/kg	5	ND	-
Heptabromodiphenyl ether		mg/kg	5	ND	-
Octabromodiphenyl ether		mg/kg	5	ND	-
Nonabromodiphenyl ether		mg/kg	5	ND	-
Decabromodiphenyl ether		mg/kg	5	ND	-

Remark:

- (a) mg/kg = ppm (part per million)
- (b) LOQ = Limit of Quantitation
- (c) ND = Not Detected
- (d) Test Result: Chemical Powder



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Test Results 3

Test Item (s)	Method (Refer to)	Unit	MDL	Results	RoHS Limit
Di-2-ethylhexyl phthalate (DEHP) (CAS No.:117-81-7)	(6)	mg/kg	50	ND	1,000
Benzyl butyl phthalate (BBP) (CAS No.:85-68-7)	(6)	mg/kg	50	ND	1,000
Di-butyl phthalate (DBP) (CAS No.:84-74-2)	(6)	mg/kg	50	ND	1,000
Diisobutyl phthalate (DIBP) (CAS No.:84-69-5)	(6)	mg/kg	50	ND	1,000

Remark:

- (a) mg/kg = ppm (part per million)
- (b) MDL = Method Detection Limit
- (c) ND = Not Detected
- (d) Test Results: Chemical Powder



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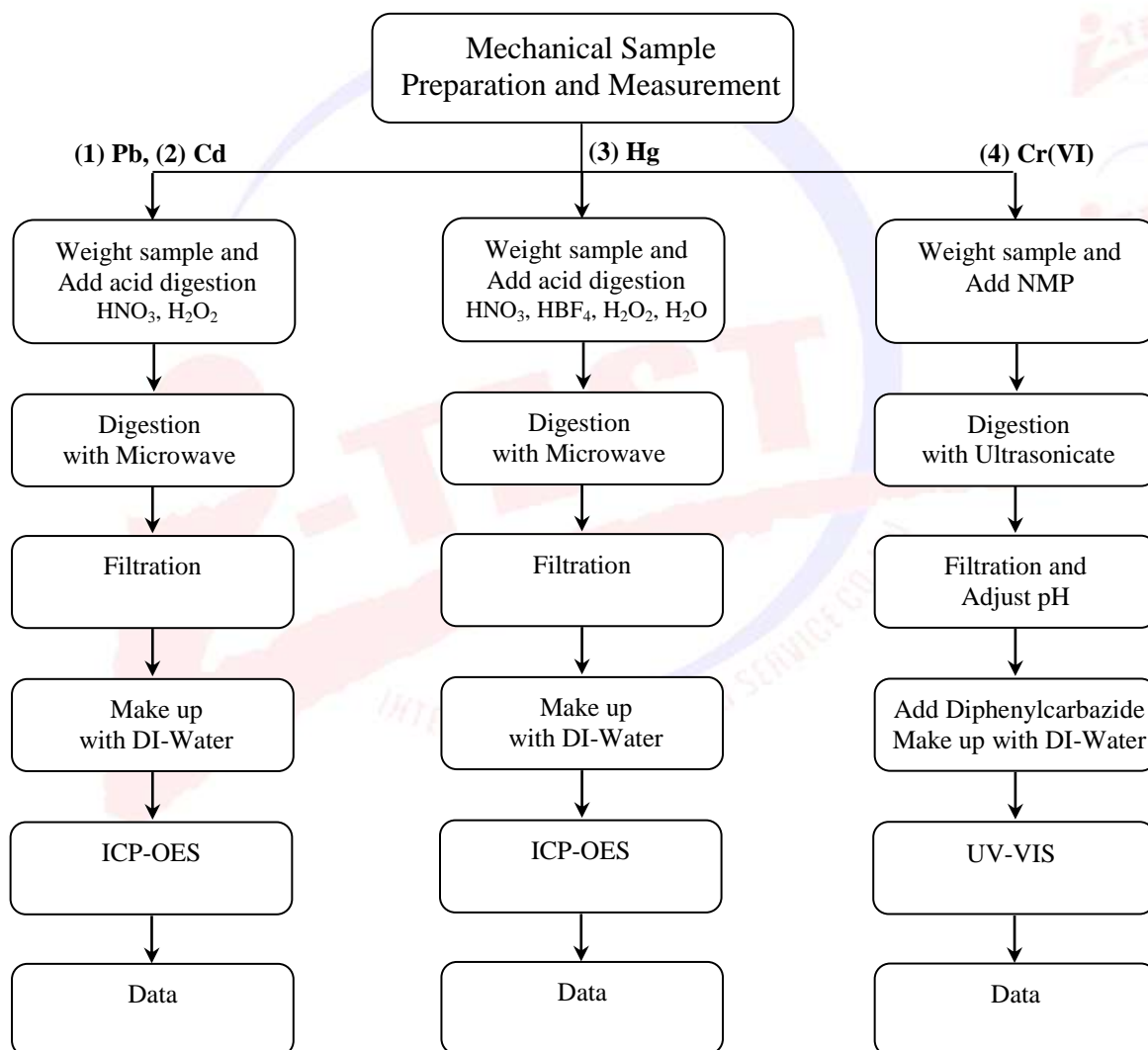
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The sample was dissolved totally by pre-conditioning method according to below flowchart.





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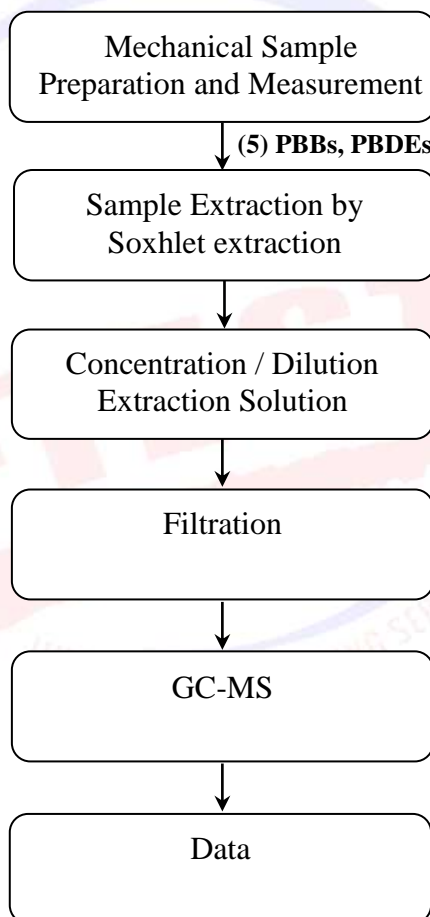
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The sample was dissolved totally by preconditioning method according to below flowchart.

Flow Chart of PBBs & PBDEs Analysis.





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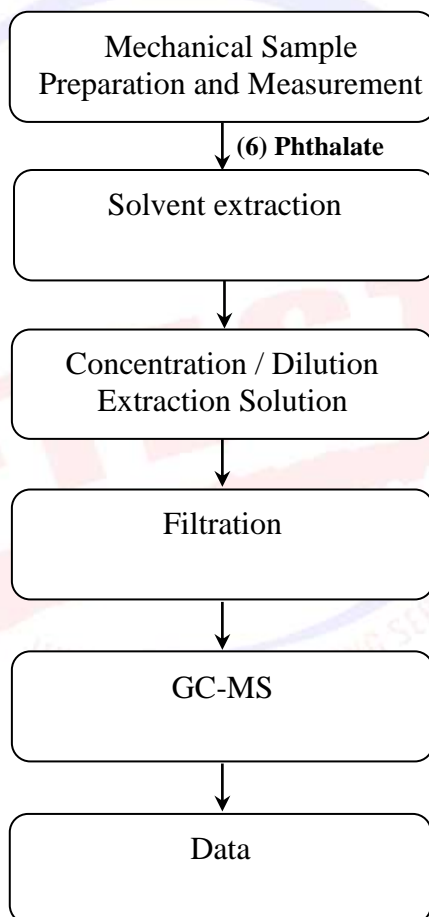
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Phthalate Testing Flow Chart





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SAMPLE PICTURE



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