

## Test Report

No.: SHAEC23007065503

Date: Jun 02, 2023

Page 1 of 20

Client Name: HENKEL CORPORATION

Client Address: 14000 Jamboree Road, Irvine, CA 92606

Sample Name: 2025DSI

Style/Item No.: 2025DSI

Sample Description: Adhesive

The above sample(s) and information were provided by the client.

SGS Job No.: SP23-010491

Sample Receiving Date: May 29, 2023

Testing Period: May 29, 2023 ~ Jun 02, 2023

Test Requested: Select test(s) as requested by the client.

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

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

Test Requirement	Conclusion
Halogen	See Results
Short Chain Chlorinated Paraffin (SCCP)	See Results
Polyvinyl chloride (PVC)	See Results
Hexabromocyclododecane (HBCDD)	See Results
Organic-Tin compounds	See Results
Antimony (Sb), Beryllium (Be)	See Results
Phthalates Content	See Results
Perfluorooctane Sulfonates (PFOS) and Perfluorooctanoic Acid (PFOA)	See Results
Polychlorinated Biphenyls(PCBs)	See Results

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

*Sue Sheng*

Sue Sheng  
Approved Signatory



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Page 2 of 20

Test Requirement	Conclusion
Polychlorinated Naphthalenes(PCNs)	See Results
Polychlorinated Terphenyls (PCTs)	See Results
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	Pass

## Test Result(s):

### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A3	SHA23-0070655-0001.C003	Red paste

### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

## Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A3
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND

## Short Chain Chlorinated Paraffin (SCCP)

Test Method: With reference to ISO 18219:2015, analysis was performed by GC-NCI-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Short Chain Chlorinated Paraffin (SCCP) (C10-C13)	85535-84-8	mg/kg	50	ND

## Polyvinyl chloride (PVC)

Test Method: With reference to SGS in house method, analysis was performed by FTIR/HATR.

Test Item(s)	A3
Polyvinyl chloride (PVC)	Negative

## Notes:

(1) Negative=The sample does not contain Polyvinylchloride (PVC),Positive=The sample contains Polyvinylchloride (PVC)

## Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.



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Date: Jun 02, 2023

Page 3 of 20

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	20	ND

## Organic-Tin compounds

Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.

Test Item(s)	Unit(s)	MDL	A3
Dibutyl tin (DBT)	mg/kg	0.03	ND
Tributyl tin (TBT)	mg/kg	0.03	ND
Diocetyl tin (DOT)	mg/kg	0.03	ND
Triphenyl tin (TPHT)	mg/kg	0.03	ND
Bis(tributyltin) oxide (TBTO) ◆	mg/kg	0.02	ND

### Notes:

(1) ◆ = TBTO is back calculated based on the worst-case scenario of TBT.

## Antimony (Sb), Beryllium (Be)

Test Method: With reference to US EPA 3050B:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A3
Antimony (Sb)	mg/kg	2	ND
Beryllium (Be)	mg/kg	2	ND

## Phthalates Content

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	mg/kg	50	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
Dihexyl Phthalates (DnHP)	84-75-3	mg/kg	50	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	mg/kg	50	ND
Diisooheptyl phthalate (DIHP)	71888-89-6	mg/kg	50	ND
1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters(DHNUP)	68515-42-4	mg/kg	50	ND

## Perfluorooctane Sulfonates (PFOS) and Perfluorooctanoic Acid (PFOA)

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.



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No.: SHAEC23007065503

Date: Jun 02, 2023

Page 4 of 20

Test Item(s)	Unit(s)	MDL	A3
Perfluorooctane Sulfonates (PFOS) ^	mg/kg	0.010	ND
Perfluorooctanoic Acid (PFOA)	mg/kg	0.010	ND

## Notes:

(1) ^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including esulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.

## Polychlorinated Biphenyls(PCBs)

Test Method: With reference to US EPA 3550C-2007, analysis was performed by GC-MS.

Test Item(s)	Unit(s)	MDL	A3
Polychlorinated Biphenyls (PCBs)	mg/kg	0.5	ND

## Polychlorinated Naphthalenes(PCNs)

Test Method: With reference to US EPA 3550C-2007, analysis was performed by GC-MS.

Test Item(s)	Unit(s)	MDL	A3
Polychlorinated Naphthalenes (PCNs)	mg/kg	5	ND

## Polychlorinated Terphenyls (PCTs)

Test Method: With reference to US EPA 3550C-2007, analysis was performed by GC-MS.

Test Item(s)	Unit(s)	MDL	A3
Polychlorinated Terphenyls (PCTs)	mg/kg	0.5	ND

## RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.  
 (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.  
 (3) With reference to IEC 62321-4:2013+AMD1:2017, determination of Mercury by ICP-OES.  
 (4) With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by UV-Vis.  
 (5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.  
 (6) With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A3
Cadmium(Cd)	100	mg/kg	2	ND
Lead(Pb)	1000	mg/kg	2	ND
Mercury(Hg)	1000	mg/kg	2	ND
Hexavalent Chromium(Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND



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## Test Report

No.: SHAEC23007065503

Date: Jun 02, 2023

Page 5 of 20

Test Item(s)	Limit	Unit(s)	MDL	A3
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	1000	mg/kg	-	ND
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
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

### Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series

(2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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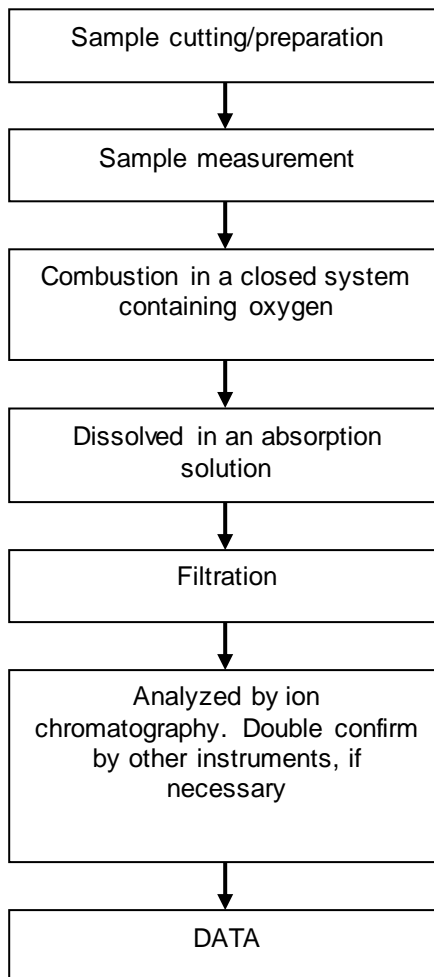
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### Halogen Testing Flow Chart



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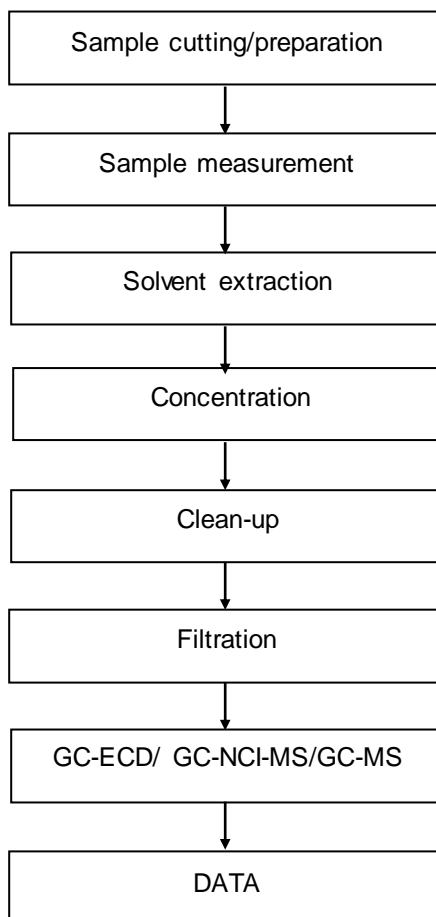
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## Chlorinated Paraffin Testing Flow Chart



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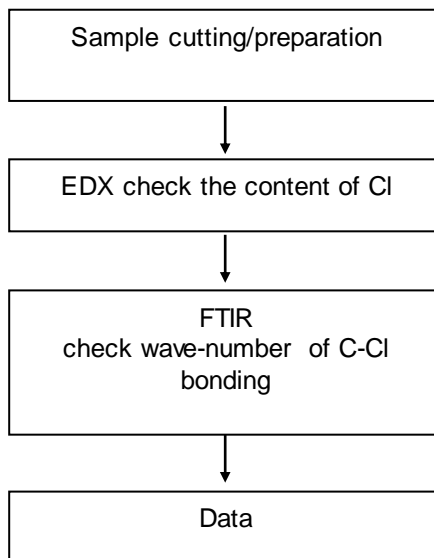
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## PVC Testing Flow Chart



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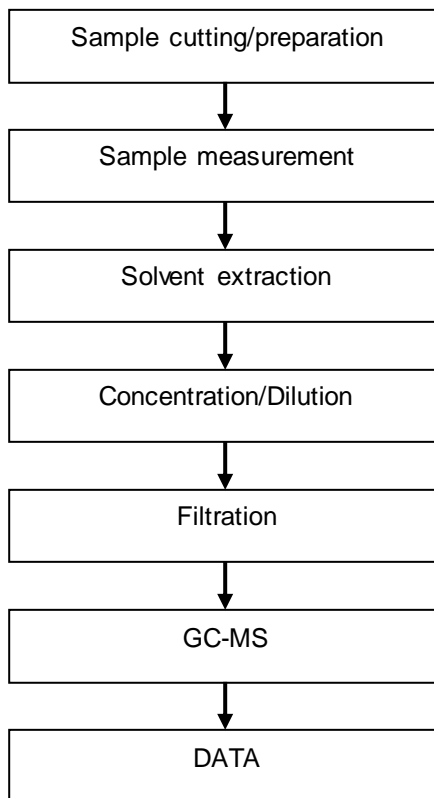
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### HBCDD Testing Flow Chart



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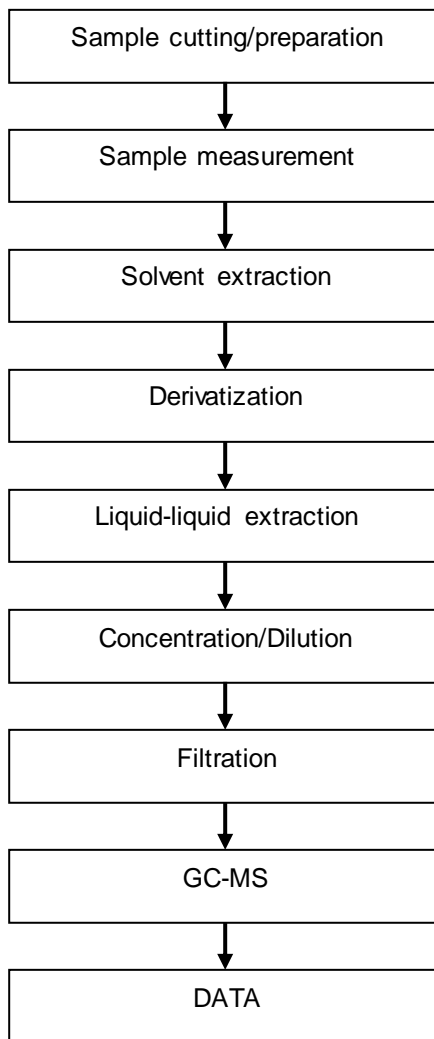
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### Organotin Testing Flow Chart



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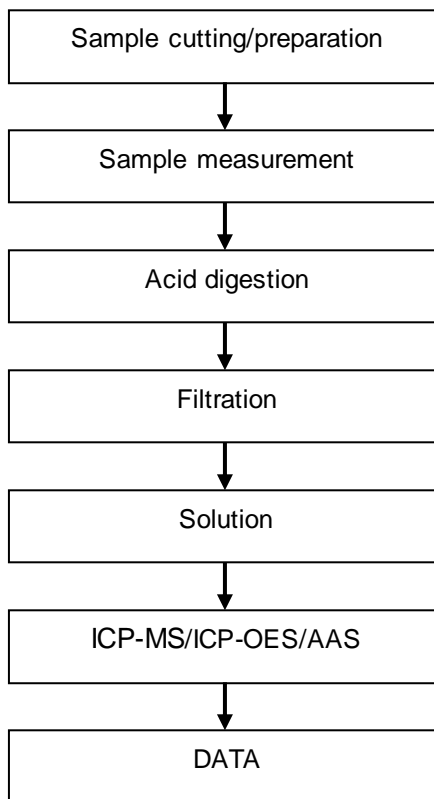
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## Elements Testing Flow Chart



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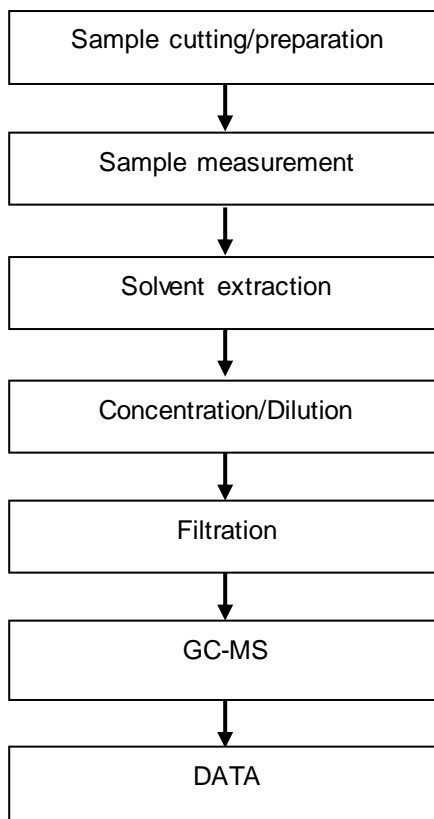
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Page 12 of 20

### Phthalates Testing Flow Chart



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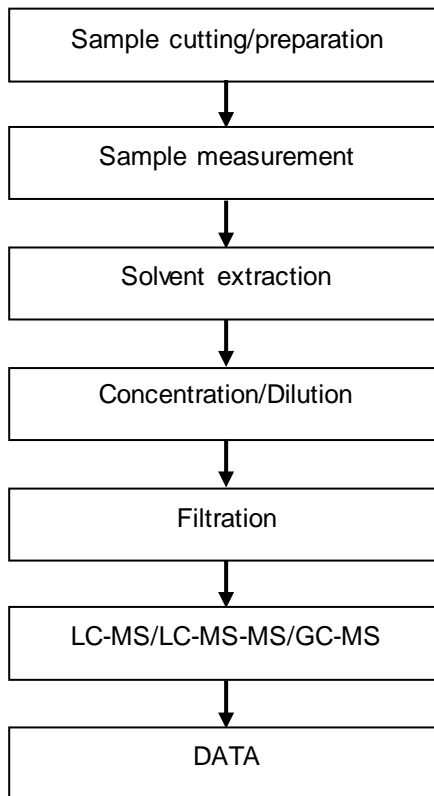
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## PFASs/ PFOS/PFOA Testing Flow Chart



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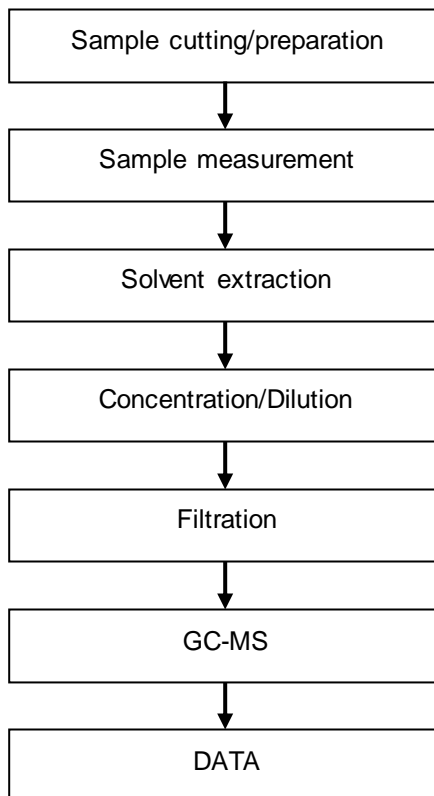
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## PCB Testing Flow Chart



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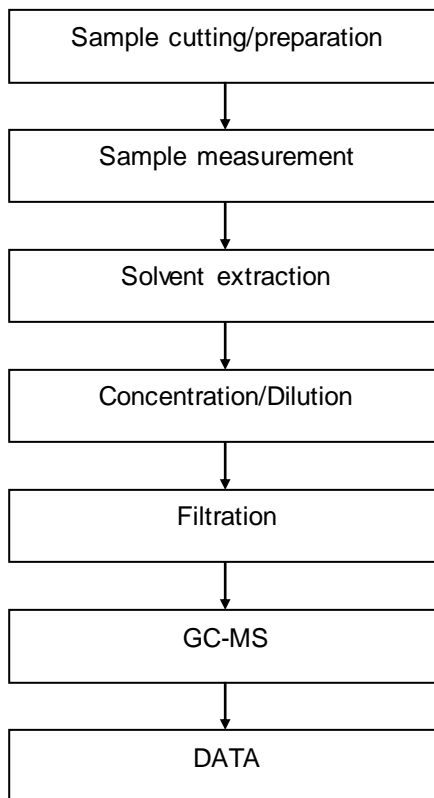
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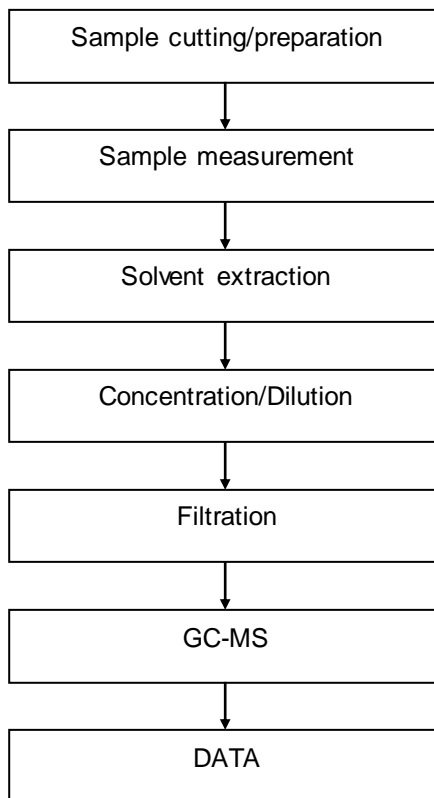
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Page 16 of 20

### PCT Testing Flow Chart



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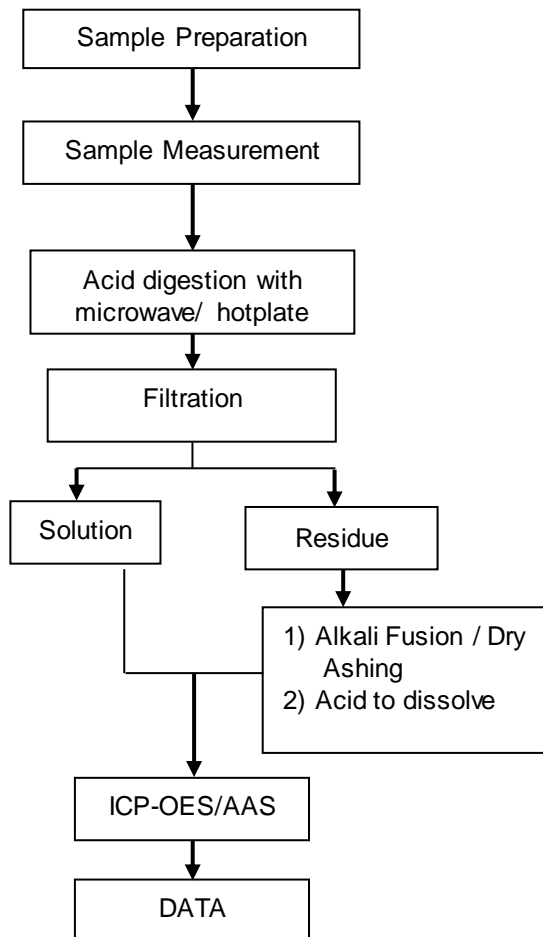
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### Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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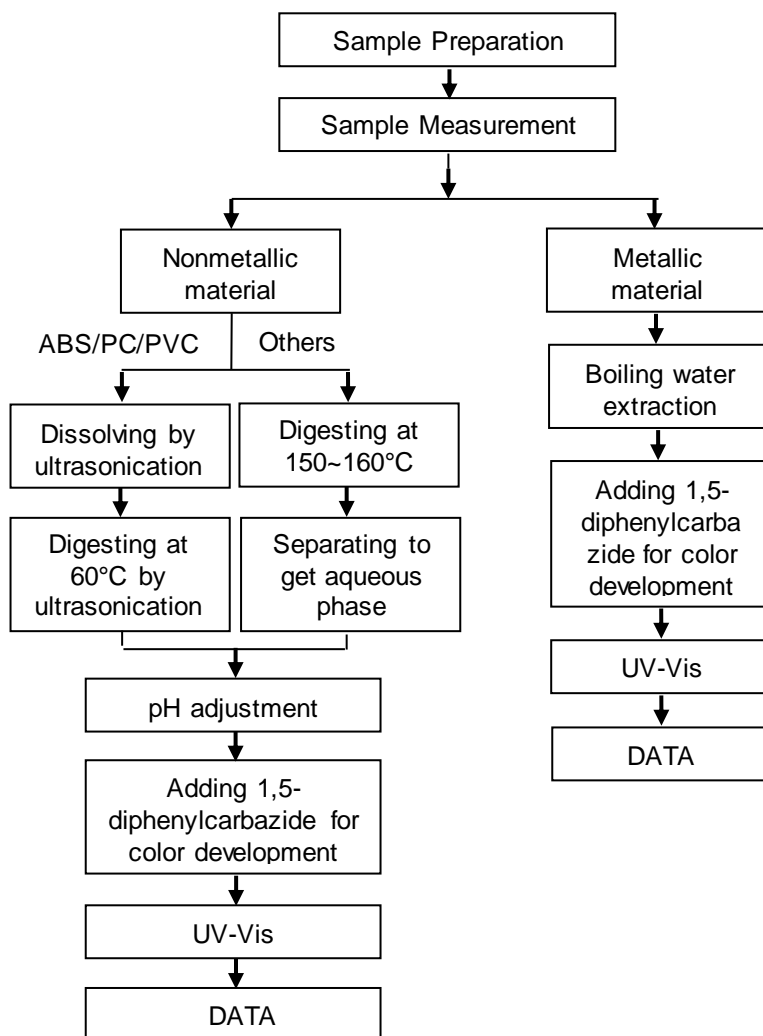
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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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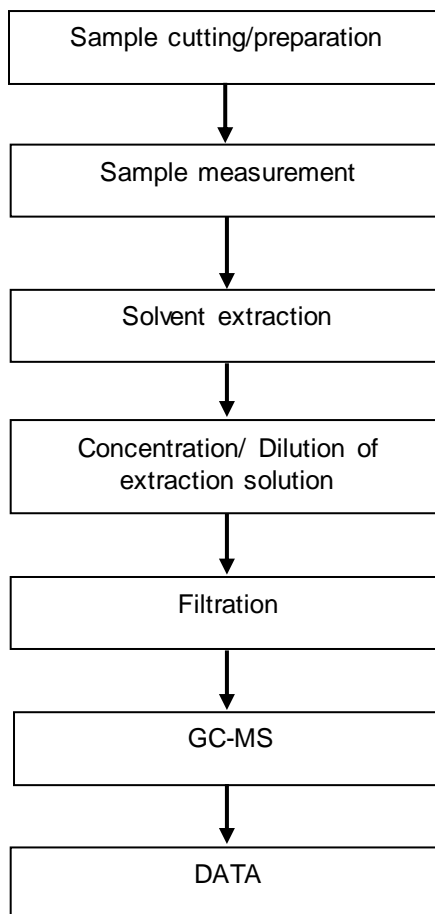
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### PBBs/PBDEs Testing Flow Chart



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## Test Report

No.: SHAEC23005708713

Date: May 15, 2023

Page 1 of 4

Client Name: HENKEL CORPORATION

Client Address: 14000 Jamboree Road, Irvine, CA 92606

Sample Name: 2025DSI

Style/Item No.: 2025DSI

Sample Description: Adhesive

The above sample(s) and information were provided by the client.

SGS Job No.: SP23-010491

Sample Receiving Date: May 09, 2023

Testing Period: May 09, 2023 ~ May 15, 2023

Test Requested: Select test(s) as requested by the client.

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

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

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Annie Liu

Annie Liu  
Approved Signatory

scan to see the report



677D11DC



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## Test Report

No.: SHAEC23005708713

Date: May 15, 2023

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### Test Result(s):

#### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A3	SHA23-0057087-0001.C003	Red paste

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

### Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A3
Fluorine (F)	mg/kg	50	596
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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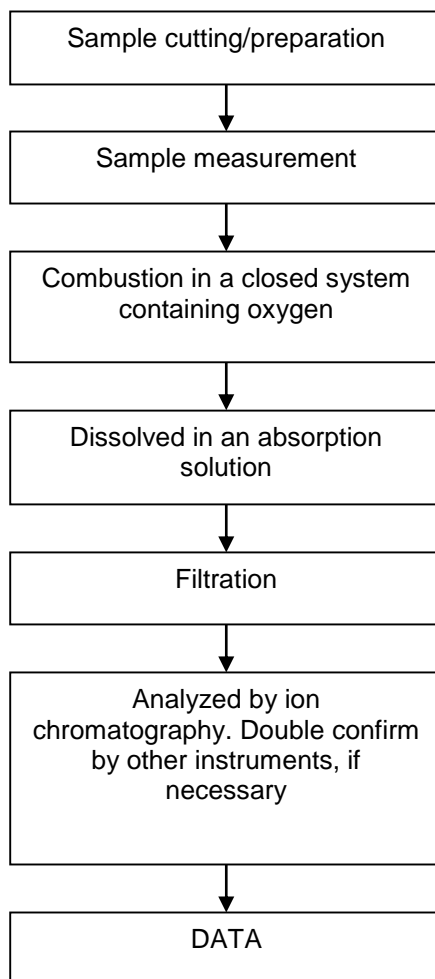
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## Halogen Testing Flow Chart



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Page 4 of 4

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