



No.: ETR23400550

Date: 12-Apr-2023

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HENKEL CORPORATION

14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By

HENKEL CORPORATION

Sample Name

ADHESIVE

Style/Item No.

8600

Sample Receiving Date

06-Apr-2023

Testing Period

06-Apr-2023 to 12-Apr-2023

Test Results

Please refer to following pages.

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
Other items : - Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) - Beryllium (Be) - Phthalates (DIDP, DINP, DNOP)	See Results

Troy Chang / Department Malager Signed for and on behalf SGS TAIWAN LTD. Chemical Laboratory - Taipei

PIN CODE: 592A3685



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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Test Part Description

No.1

: SILVER COLORED PASTE

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
rest item(s)	·			No.1	
Cadmium (Cd)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	100
Cuarrian (Ca)	analysis was performed by ICP-OES.				
Lead (Pb)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	1000
	analysis was performed by ICP-OES.				
Mercury (Hg)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.	1000
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	AMD1: 2017, analysis was performed				
	by ICP-OES.				
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017,	mg/kg	8	n.d.	1000
	analysis was performed by UV-VIS.				
Monobromobiphenyl		mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	
Nonabromobiphenyl		mg/kg	5	n.d.	
Decabromobiphenyl		mg/kg	5	n.d.	1000
Sum of PBBs	With reference to IEC 62321-6: 2015,	mg/kg	-	n.d.	1000
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.	
Dibromodiphenyl ether		mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5 5	n.d.	
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	
Hexabromodiphenyl ether		mg/kg	5	n.d.	
Heptabromodiphenyl ether		mg/kg	5	n.d.	
Octabromodiphenyl ether		mg/kg	5	n.d.	
Nonabromodiphenyl ether		mg/kg	5	n.d.	
Decabromodiphenyl ether		mg/kg	-	n.d.	1000
Sum of PBDEs		mg/kg			1 1000



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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Method	Unit	MDL	Result	Limit
			No.1	
	mg/kg	50	n.d.	1000
With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
	mg/kg	50	n.d.	1000
	mg/kg	50	n.d.	1000
	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 mg/kg 50	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. mg/kg 50 n.d. mg/kg 50 n.d. mg/kg 50 n.d.

Test Item(s)	Method	Unit	MDL	Result	Limit
rest item(s)				No.1	
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)	- }	mg/kg	50	n.d.	-
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.	mg/kg	20	n.d.	_
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-

Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. 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. According to this rule, the judgement of conformity is based on the comparing test results with limits.



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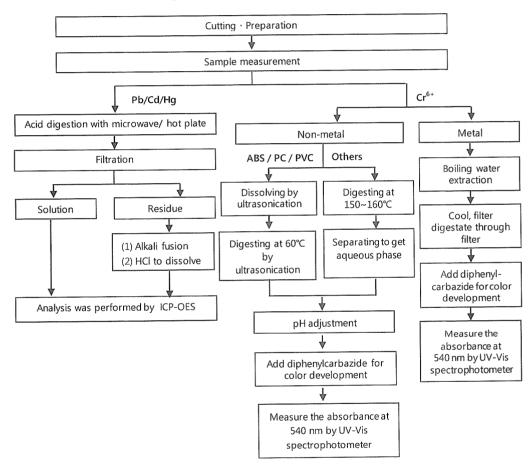
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Analytical flow chart of heavy metal

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

(Cr^{6+} test method excluded)





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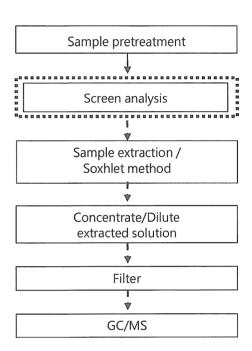
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Analytical flow chart – PBBs / PBDEs

First testing process ____
Optional screen process ____
Confirmation process ____





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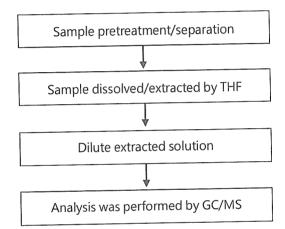
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Analytical flow chart - Phthalate

【Test method: IEC 62321-8】





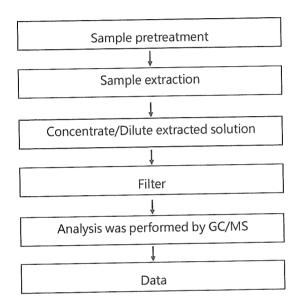
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Analytical flow chart - HBCDD





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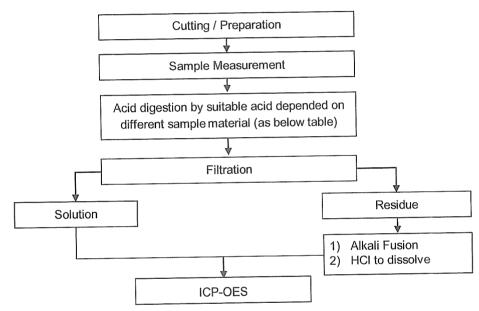
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Flow Chart of digestion for the elements analysis performed by ICP-OES

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



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCI, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Added appropriate reagent to total digestion



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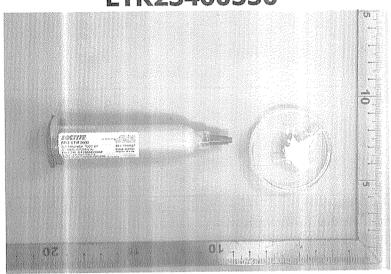
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

 $\mbox{\ensuremath{^{*}}}$ The tested sample / part is marked by an arrow if it's shown on the photo. $\mbox{\ensuremath{^{*}}}$

ETR23400550



** End of Report **

Signature valid
For Question Please
Contact with SGS
www.sgs.com.tw



Test Report

No.: ETR23400551

Date: 12-Apr-2023

Page: 1 of 4

HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By

: HENKEL CORPORATION

Sample Name

ADHESIVE

Style/Item No.

8600

Sample Receiving Date

06-Apr-2023

Testing Period

06-Apr-2023 to 12-Apr-2023

Test Requested

Testing item(s) is/are specified by client. Please refer to result table for

testing item(s).

Test Results

:

Please refer to following pages.

Troy Chang / Department Malager Signed for and on behalf of Alwan SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 3D0E0876



No.: ETR23400551

Date: 12-Apr-2023

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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Test Part Description

No.1

: SILVER COLORED PASTE

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
CSt Helin(s)				No.1
	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.

Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. PFOS and its salts including:

CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.

5. PFOA and its salts including:

CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.



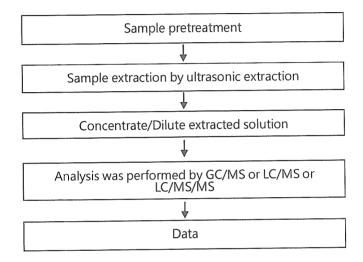
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)





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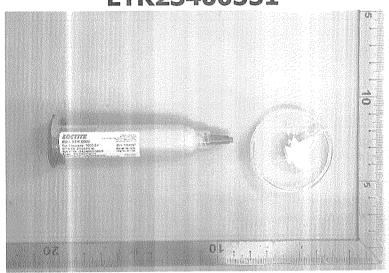
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

 $\mbox{\ensuremath{^{\ast}}}$ The tested sample / part is marked by an arrow if it's shown on the photo. $\mbox{\ensuremath{^{\ast}}}$

ETR23400551



** End of Report **

Signature valid For Question Please Contact with SGS www.sgs.com.tw



Test Report

No.: ETR23400547

Date: 12-Apr-2023

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HENKEL CORPORATION

14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By

HENKEL CORPORATION

Sample Name

ADHESIVE

Style/Item No.

8600

Sample Receiving Date

06-Apr-2023

Testing Period

06-Apr-2023 to 12-Apr-2023

Test Requested

As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in

the submitted sample.

Test Results

Please refer to following pages.

Troy Chang / Department Malager Signed for and on behalf SGS TAIWAN LTD. Chemical Laboratory - Taipei



PIN CODE: 0B3F1648



No.: ETR23400547

Date: 12-Apr-2023

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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Test Part Description

No.1

: SILVER COLORED PASTE

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.			
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.		50	11.0.
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.	, ,	30	11.0.
lodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.	9/ 109	30	11.0.

Note:

1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm

2. MDL = Method Detection Limit

3. n.d. = Not Detected (Less than MDL)



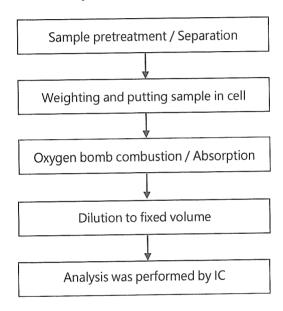
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Analytical flow chart - Halogen





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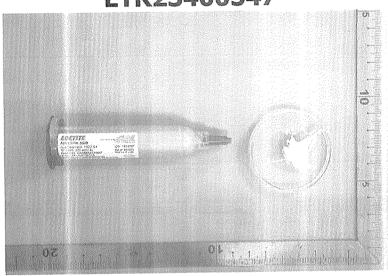
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

 $\mbox{\ensuremath{^{*}}}$ The tested sample / part is marked by an arrow if it's shown on the photo. $\mbox{\ensuremath{^{*}}}$

ETR23400547



** End of Report **

Signature valid For Question Please Contact with SGS www.sgs.com.tw



Test Report

No.: ETR23400548

Date: 12-Apr-2023

Page: 1 of 4

HENKEL CORPORATION

14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By

HENKEL CORPORATION

Sample Name

ADHESIVE

Style/Item No.

8600

Sample Receiving Date

06-Apr-2023

Testing Period

06-Apr-2023 to 12-Apr-2023

Test Requested

Testing item(s) is/are specified by client. Please refer to result table for testing

item(s).

Test Results

Please refer to following pages.

SĞS TAIWAN LTD. Chemical Laboratory - Taipei



PIN CODE: 0862B665



No.: ETR23400548

Date: 12-Apr-2023

Page: 2 of 4

HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Test Part Description

No.1

: SILVER COLORED PASTE

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result No.1
	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.

Note:

1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm

2. MDL = Method Detection Limit

3. n.d. = Not Detected (Less than MDL)



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Date: 12-Apr-2023

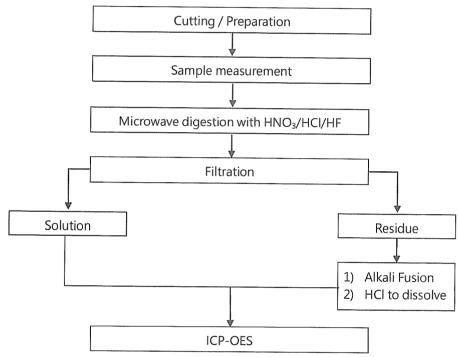
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

Analytical flow chart of Elements (Heavy Metal included)

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

【Reference method: US EPA 3051A · US EPA 3052】



* US EPA 3051A method does not add HF.



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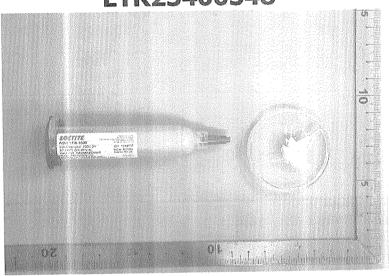
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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

 * The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR23400548



** End of Report **