

**Test Report** No.: CE/2020/52509 Date: 2020/05/18

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

### The following samples was/were submitted and identified by/on behalf of the applicant as:

Sample Submitted By : HENKEL CORPORATION

Sample Description : ADHESIVE Style/Item No. CDF 215P8A8

Customer Reference

: CDF 200 (CDF 215, CDF 230) SERIES

Information

2020/05/14

Sample Receiving Date

Testing Period 2020/05/14 to 2020/05/18

#### **Test Requested**

(1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) Please refer to next pages for the other item(s).

: Please refer to following pages. Test Result(s)

(1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Conclusion

Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by

RoHS and amending Directive (EU) 2015/863.





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HENKEL CORPORATION

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

### Test Result(s)

PART NAME No.1 : SILVER COLORED SHEET (EXCLUDING THE DOUBLE RELEASE FILM) (CDF 215P8A8)

| Test Item(s)               | Unit  | Method   | MDL | Result<br>No.1 | Limit |
|----------------------------|-------|--|-----|----------------|-------|
| Cadmium (Cd)               | mg/kg | With reference to IEC 62321-5 (2013) and performed by ICP-OES.                 | 2   | n.d.           | 100   |
| Lead (Pb)                  | mg/kg | With reference to IEC 62321-5 (2013) and performed by ICP-OES.                 | 2   | n.d.           | 1000  |
| Mercury (Hg)               | mg/kg | With reference to IEC 62321-<br>4:2013+AMD1:2017 and performed by ICP-<br>OES. | 2   | n.d.           | 1000  |
| Hexavalent Chromium Cr(VI) | mg/kg | With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.                | 8   | n.d.           | 1000  |
| Sum of PBBs                | mg/kg |  | -   | n.d.           | 1000  |
| 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 | With reference to IEC 62321-6 (2015) and                                       | 5   | n.d.           | -     |
| Octabromobiphenyl          | mg/kg |  | 5   | n.d.           | -     |
| Nonabromobiphenyl          | mg/kg |  | 5   | n.d.           | -     |
| Decabromobiphenyl          | mg/kg |  | 5   | n.d.           | -     |
| Sum of PBDEs               | mg/kg | performed by GC/MS.  | -   | n.d.           | 1000  |
| Monobromodiphenyl ether    | mg/kg |  | 5   | n.d.           | -     |
| Dibromodiphenyl ether      | mg/kg |  | 5   | n.d.           | -     |
| Tribromodiphenyl ether     | mg/kg |  | 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 |  | 5   | n.d.           | -     |



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| Test Item(s)   | Unit  | Method  | MDL      | Result<br>No.1 | Limit |
|--|-------|---|----------|----------------|-------|
| Antimony (Sb)  | mg/kg | With reference to US EPA 3050B (1996).<br>Analysis was performed by ICP-OES.  | 2        | n.d.           | -     |
| Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)  | mg/kg | With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.   | 0.5      | n.d.           | -     |
| Polychlorinated Naphthalene (PCNs)   | mg/kg | With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.   | 5        | n.d.           | -     |
| Polychlorinated Terphenyls (PCTs)  | mg/kg | With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.   | 0.5      | n.d.           | -     |
| Alkanes, C10-13, chloro (Short<br>Chain Chlorinated Paraffins) (CAS<br>No.: 85535-84-8)  | mg/kg | With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.   | 100      | n.d.           | -     |
| Beryllium (Be)   | mg/kg | With reference to US EPA 3050B (1996). Analysis was performed by ICP-OES.   | 2        | n.d.           | -     |
| Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)  | mg/kg | With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS.   | 0.01     | n.d.           | -     |
| PFOA (CAS No.: 335-67-1)   | mg/kg | With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS.   | 0.01     | n.d.           | -     |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | mg/kg | With reference to IEC 62321 (2008). Analysis was performed by GC/MS.  | 5        | n.d.           | -     |
| Halogen-Chlorine (CI)<br>(CAS No.: 22537-15-1)   | mg/kg | With reference to BS EN 14582 (2016). Analysis was performed by IC.   | 50       | n.d.           | -     |
| Halogen-Bromine (Br)<br>(CAS No.: 10097-32-2)  | mg/kg | With reference to BS EN 14582 (2016).<br>Analysis was performed by IC.  | 50       | n.d.           | -     |
| Dibutyl Tin (DBT)  | mg/kg | With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.   | 0.03     | n.d.           | -     |
| Dioctyl Tin (DOT)  | mg/kg | With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.   | 0.03     | n.d.           | -     |
| Bis(tributyltin)oxide (TBTO) (CAS<br>No.: 56-35-9)   | mg/kg | With reference to ISO 17353 (2004). Analysis was performed by GC/FPD. Calculated from the result of Tributyl Tin (TBT). | 0.03 (▲) | n.d.           | -     |



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| Test Item(s)  | Unit  | Method  | MDL  | Result<br>No.1 | Limit |
|---|-------|---|------|----------------|-------|
| Polyvinyl chloride (PVC)  | **    | Analysis was performed by FTIR and FLAME Test.                            | -    | Negative       | -     |
| Tributyl Tin (TBT)  | mg/kg | With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.     | 0.03 | n.d.           | -     |
| Triphenyl Tin (TphT)  | mg/kg | With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.     | 0.03 | n.d.           | -     |
| BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)   | mg/kg | With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.    | 50   | n.d.           | 1000  |
| DEHP (Di- (2-ethylhexyl) phthalate)<br>(CAS No.: 117-81-7)  | mg/kg | With reference to IEC 62321-8 (2017).<br>Analysis was performed by GC/MS. | 50   | n.d.           | 1000  |
| DNHP (Di-n-hexyl phthalate) (CAS<br>No.: 84-75-3)   | mg/kg | With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.    | 50   | n.d.           | -     |
| DIHP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)     | mg/kg | With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.    | 50   | n.d.           | -     |
| DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4) | mg/kg | With reference to IEC 62321-8 (2017).<br>Analysis was performed by GC/MS. | 50   | n.d.           | -     |
| DMEP (Bis (2-methoxyethyl)<br>phthalate) (CAS No.: 117-82-8)  | mg/kg | With reference to IEC 62321-8 (2017).<br>Analysis was performed by GC/MS. | 50   | n.d.           | -     |
| DIBP (Di-isobutyl phthalate) (CAS<br>No.: 84-69-5)  | mg/kg | With reference to IEC 62321-8 (2017).<br>Analysis was performed by GC/MS. | 50   | n.d.           | 1000  |
| DBP (Dibutyl phthalate) (CAS No.: 84-74-2)  | mg/kg | With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.    | 50   | n.d.           | 1000  |
| DIDP (Di-isodecyl phthalate) (CAS<br>No.: 26761-40-0; 68515-49-1)                                     | mg/kg | With reference to IEC 62321-8 (2017).<br>Analysis was performed by GC/MS. | 50   | n.d.           | -     |
| DINP (Di-isononyl phthalate) (CAS<br>No.: 28553-12-0; 68515-48-0)                                     | mg/kg | With reference to IEC 62321-8 (2017).<br>Analysis was performed by GC/MS. | 50   | n.d.           | -     |
| DNOP (Di-n-octyl phthalate) (CAS<br>No.: 117-84-0)  | mg/kg | With reference to IEC 62321-8 (2017).<br>Analysis was performed by GC/MS. | 50   | n.d.           | -     |



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#### Note:

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

2. MDL = Method Detection Limit

3. n.d. = Not Detected

4. " - " = Not Regulated

5. \*\* = Qualitative analysis (No Unit)

6. Negative = Undetectable / Positive = Detectable

7. (A): The MDL was evaluated for element / tested substance.

Conversion Formula :  $AX = A \times F$ 

| AX                           | Α                  | F     |  |
|------------------------------|--------------------|-------|--|
| Bis(tributyItin)oxide (TBTO) | Tributyl Tin (TBT) | 1.024 |  |

8. The statement of compliance conformity is based on comparison of testing results and limits.

### PFOS Reference Information: POPs - (EU) 2019/1021

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².

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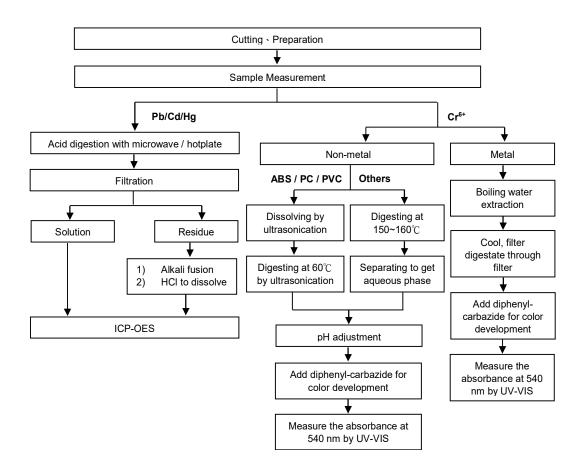


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HENKEL CORPORATION 14000 JAMBOREE ROAD, IRVINE, CALIFORNIA, 92606 U.S.A.

### **Analytical flow chart of Heavy Metal**

These samples were dissolved totally by pre-conditioning method according to below flow chart. ( Cr<sup>6+</sup> test method excluded )



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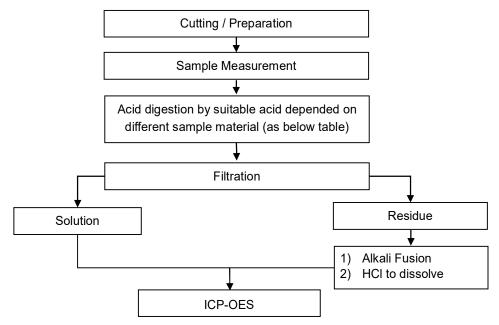
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### Flow Chart of digestion for the elements analysis performed by ICP-OES

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



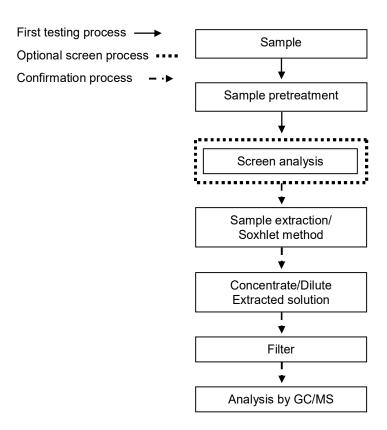
| Steel, copper, aluminum, solder    | Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>                   |
|------------------------------------|---|
| Glass                              | HNO <sub>3</sub> /HF  |
| Gold, platinum, palladium, ceramic | Aqua regia  |
| Silver    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



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### Analytical flow chart - PBB/PBDE



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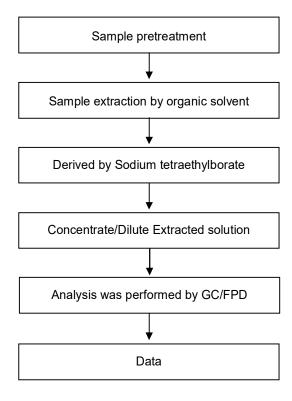
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## Analytical flow chart - Organic-Tin



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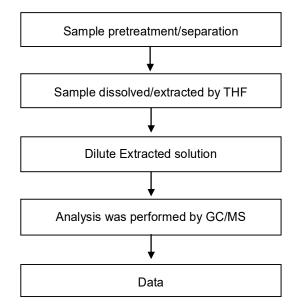


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### **Analytical flow chart - Phthalate**

[Test method: IEC 62321-8]



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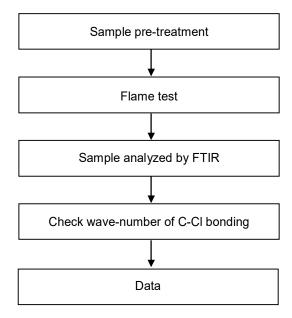
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### Analysis flow chart - PVC



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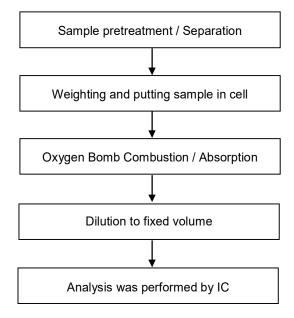
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### Analytical flow chart - Halogen



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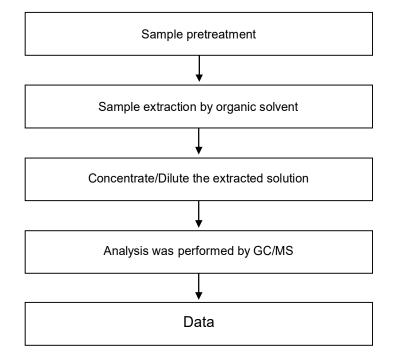


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## **Analytical flow chart**

\* Apply to: HBCDD, PCBs, PCNs, PCTs, Chlorinated Paraffins, DBBT



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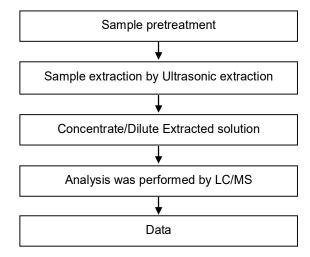
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# Analytical flow chart - PFOA/PFOS



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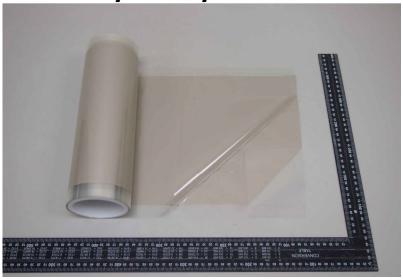


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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

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\*\* End of Report \*\*

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