

Test Report Page: 1 of 4 No.: CE/2018/37473 Date: 2018/04/09

KESTER AN ILLINOIS TOOL WORKS COMPANY 800 W. THORNDALE AVE. ITASCA, IL 60143



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

: KESTER AN ILLINOIS TOOL WORKS COMPANY Sample Submitted By

Sample Description : 2235 Style/Item No. : IC170493 Sample Receiving Date : 2018/03/29

Testing Period : 2018/03/29 TO 2018/04/09

Test Requested

(1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine 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 DBP, BBP, DEHP, Conclusion

DIBP comply with the limits as set by RoHS and amending Directive (EU) 2015/863.





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Test Result(s)

PART NAME No.1 : TRANSPARENT LIQUID

Test Item(s)	Unit	Method	MDL	Result	Limit
				No.1	
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
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) (CAS No.: 117-81-7)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.	1000
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.	1000
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49- 1)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.	-
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48- 0)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.	-
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.	-

Note:

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

2. MDL = Method Detection Limit

3. n.d. = Not Detected = less than MDL

4. " - " = Not Regulated



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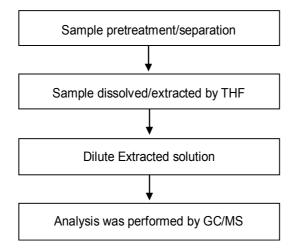
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Analytical flow chart - Phthalate

Technician: Andy Hsu Supervisor: Troy Chang

[Test method: IEC 62321-8]



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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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