

## TEST REPORT

**NUMBER:** LTR19030288A

**APPLICANT:** Fiddes & Son Ltd  
Florence Works  
Brindley Road  
Cardiff  
CF11 8TX

**DATE:**

For the attention of Ceri Davies

**SAMPLE DESCRIPTION:** Clear Lacquers Coated Onto Glass Plates:  
i) Hard wax oil  
ii) Sublimation lacquer

**REFERENCE / STYLE NO.:** Not specified

**RETAILER:** Not specified

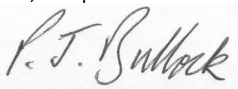
**SAMPLES RECEIVED:** 18<sup>th</sup> March 2019

**PURCHASE ORDER:** None

**TEST REQUEST:** ^BS EN 71-3: 2013 + A3:2018, EN 71-3:2013 + A3:2018

**CONCLUSION:** The results of the tests carried out **MEET** the requirements of the requested Standard

Tests marked (^) in this report are included in the scope of accreditation of the sub-contractor who performed the test.  
Tests marked (\*) in this report are not included in our UKAS scope of accreditation.  
Tests marked (\*\*) in this report are not included in the scope of accreditation of the sub-contractor who performed the test.  
Opinions, interpretations and comments expressed herein are outside the scope of accreditation.

  
**PHILIP BULLOCK**  
**TECHNICAL MANAGER**  
**TOYS AND HARDLINES**



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**Specification:** BS EN 71-3:2013+A3:2018, EN 71-3:2013+A3:2018

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP-MS

Category	TEST	RESULTS
III	Scraped off toy material	Pass

**Note:** The results for chromium (III), chromium (VI) and organic tin are based on the overall migration of chromium and tin respectively and specific testing for these chemicals was not carried out (unless confirmation testing is indicated). This is in accordance with Annex I of the standard.

### MATERIALS SAMPLED

No.	DESCRIPTION	Sample weight (<100mg)
	<b>CATEGORY III – SCRAPED OFF</b>	
1	Hard wax oil	
2	Sublimation lacquer	

Where sample weights are written above these were less than 100 mg. The migration results below for these samples have been calculated as though the sample weight were 100 mg.

### CATEGORY III - SCRAPED OFF

Element	Analytical Results																	Theoretical Maximum Results		
	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Al	B	Co	Cu	Mn	Ni	Sr	Sn	Zn	Cr (III)	#Cr (VI)	##OT
EN71-3 Limit	560	47	18750	17	-	23	94	460	70000	15000	130	7700	15000	930	56000	180000	46000	460	0.2	12
1	<0.125	<0.125	27.1	<0.125	<0.125	1.6	<0.0125	<0.125	9.1	3.2	9.1	<0.125	0.9	<0.125	0.4	<0.2	10.7	<0.04	<0.1	<0.2
2	<0.125	<0.125	2.8	<0.125	<0.125	<0.125	<0.0125	<0.125	3.9	<0.125	4.2	2.9	<0.125	<0.125	<0.125	<0.2	3.4	<0.04	<0.1	<0.2

The reporting limits are as stated in the table above.

OT = Organic tin

All results and the limits are quoted as mg/kg (ppm) of the named material.

† Sample weight of items marked with a cross was less than 100mg. The toxic metal content has been calculated as though the sample weight were 100mg.

# Actual levels of chromium (III) or chromium (VI) have not been determined in this analysis, only overall levels of migratable chromium (III) have been analysed: the maximum theoretical amount of chromium (VI) will be equal to or less than the number reported above. Where the value in either of these columns is greater than the associated limit we would advise further testing to accurately determine chromium (III) chromium (VI) levels.

In the case of Category 2 samples we advise testing for chromium (III) and chromium (VI) is carried out on all samples



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*due to the very low PASS/FAIL limit related to these materials*

*## Actual levels of organic tin have not been determined in this analysis: the maximum theoretical amount of any single organic tin can be different. The result for organic tin presented is calculated as if all the tin were present as TBT (Tri-butyl Tin) only.*

**Date of Testing:** 12-16<sup>th</sup> April 2019



## END OF REPORT

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