

# TEST REPORT

Mechanical & Hardgoods Laboratory

Report No : HY/2015/C0114

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Date : 2015/12/16

**Quiao He Engineering Co.**

No. 85, Huzhu St., Banquiao Dist., New Taipei City 220, Taiwan

## The following merchandise was submitted & identified by the applicant as:

Type of Product: Hard Wax  
Style/Item No: 171  
Manufacturer/Vendor: AURO Pflanzenchemie AG  
Country of Origin: Germany  
Date of Sample received: 2015/12/08  
Test Performing Period: 2015/12/09 – 12/16

**We have tested the submitted sample(s) as requested and the following results were obtained:**

### Test Requested

EN 71-3: 2013+A1:2014- Migration of Certain Elements

### Test methods / Results

- Please see the next page(s)

Signed for and on behalf of  
SGS Taiwan Ltd.

Iris Huang  
Asst. Manager



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## Test Methods / Results

European Standard - Safety of Toys : EN 71 Part 3: 2013+A1:2014 - Migration of Certain Element

### Category III: Scrapped-off toy material

Method: With reference to EN 71 Part 3:2013+A1:2014. Analysis was performed by ICP-AES.

Extractable Organic Tin was analyzed by GC-MS. Extractable Chromium III & Chromium VI were analyzed by LC-ICP-MS.

Test Items		Result(mg/kg)	MDL (mg/kg)	Limit (mg/kg)
		1		
Soluble Aluminum	(Al)	N.D.	50	70,000
Soluble Antimony	(Sb)	N.D.	10	560
Soluble Arsenic	(As)	N.D.	10	47
Soluble Barium	(Ba)	N.D.	50	18,750
Soluble Boron	(B)	N.D.	50	15,000
Soluble Cadmium	(Cd)	N.D.	5	17
Soluble Cobalt	(Co)	N.D.	10	130
Soluble Copper	(Cu)	N.D.	50	7,700
Soluble Lead	(Pb)	N.D.	10	160
Soluble Manganese	(Mn)	N.D.	50	15,000
Soluble Mercury	(Hg)	N.D.	10	94
Soluble Nickel	(Ni)	N.D.	10	930
Soluble Selenium	(Se)	N.D.	10	460
Soluble Strontium	(Sr)	N.D.	50	56,000
Soluble Tin	(Sn)	N.D.	4.9	180,000
Soluble Zinc	(Zn)	N.D.	50	46,000
Soluble Chromium (III)	(Cr (III))	N.D.	1	460
Soluble Chromium (VI)	(Cr (VI))	N.D.	0.18	0.2
Soluble Organic Tin <sup>#</sup>	--	N.D.	--	12

Remark: #

Test Items		Soluble Organic Tin Result(s)	MDL (mg/kg)
		1	
Methyl tin	(MeT)	N.D.	0.5
Di-n-propyl tin	(DProT)	N.D.	0.5
Butyl tin	(BuT)	N.D.	0.5
Dibutyl tin	(DBT)	N.D.	0.5
Tributyl tin	(TBT)	N.D.	0.5
n-Octyl tin	(MOT)	N.D.	0.5
Tetrabutyl tin	(TeBT)	N.D.	0.5
Di-n-octyl tin	(DOT)	N.D.	0.5
Diphenyl tin	(DPhT)	N.D.	0.5
Triphenyl tin	(TPhT)	N.D.	0.5

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Description:

1. Yellow wax of sample.

## NOTE:

1. mg/kg = ppm
2. N.D. = Not Detected
3. MDL =Method Detection Limit
4. "--" =Not Conducted
5. The chemical analysis was conducted in SGS Taiwan Ltd. Chemical Laboratory-Taipei

Sample picture (As received)

**HY/2015/C0114**

\*\* End of Report \*\*

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