

TEST REPORT

Mechanical & Hardgoods Lab

Report No : HY/2014/10158

Page : 1 of 4

Date : 2014/01/22

PUSHING ENTERPRISE CO., LTD. / MIKO INDUSTRIAL CO., LTD.

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

Type of Product: Chalks (White, Red, Yellow, Blue, Green, Purple)

Style/Item No: GPS-6C/15C/20C/24C, MPS-12W/12C/50W/50C/100W/100C,
CHA-12W/12C/50W/50C/100W/100C

Manufacturer/Vendor: _____ LTD.

Country of Origin: _____

Date of Sample received: 2014/01/09

Test Performing Period: 2014/01/10 – 01/17

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

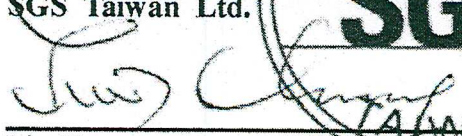
Test Requested

EN 71-3: 2013- 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





TEST REPORT

Mechanical & Hardgoods Lab

Report No : HY/2014/10158

Page : 2 of 4

Test Methods / Results

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

Category I: Dry, brittle, powder like or pliable toy material

Method: With reference to EN 71 Part 3:2013. Analysis was performed by ICP-MS. Extractable Organic Tin was analyzed by GC-MS. Extractable Chromium III & Chromium VI were analyzed by LC-ICP-MS.

Test Item		Result(mg/kg)			MDL (mg/kg)	Limit (**) (mg/kg)
		1	2	3		
Soluble Aluminium	(Al)	N.D.	N.D.	N.D.	50	5,625
Soluble Antimony	(Sb)	N.D.	N.D.	N.D.	1	45
Soluble Arsenic	(As)	N.D.	N.D.	N.D.	0.5	3.8
Soluble Barium	(Ba)	N.D.	N.D.	N.D.	50	1,500 (1,000**)
Soluble Boron	(B)	N.D.	N.D.	N.D.	50	1,200
Soluble Cadmium	(Cd)	N.D.	N.D.	N.D.	0.1	1.3
Soluble Cobalt	(Co)	N.D.	N.D.	N.D.	0.5	10.5
Soluble Copper	(Cu)	N.D.	N.D.	N.D.	50	622.5
Soluble Lead	(Pb)	N.D.	N.D.	N.D.	0.5	13.5
Soluble Manganese	(Mn)	N.D.	N.D.	N.D.	50	1,200
Soluble Mercury	(Hg)	N.D.	N.D.	N.D.	0.5	7.5
Soluble Nickel	(Ni)	N.D.	N.D.	N.D.	10	75
Soluble Selenium	(Se)	N.D.	N.D.	N.D.	5	37.5
Soluble Strontium	(Sr)	97	89	95	50	4,500
Soluble Tin	(Sn)	N.D.	N.D.	N.D.	0.36	15,000
Soluble Zinc	(Zn)	N.D.	N.D.	N.D.	50	3,750
Soluble Chromium (III)	(Cr (III))	N.D.	N.D.	N.D.	1	37.5
Soluble Chromium (VI)	(Cr (VI))	N.D.	N.D.	N.D.	0.018	0.02
Soluble Organic Tin [#]	--	N.D.	N.D.	N.D.	--	0.9

Remark: #

Test Item		Soluble Organic Tin Result(s)			MDL (mg/kg)
		1	2	3	
Methyl tin	(MeT)	N.D.	N.D.	N.D.	0.5
Di-n-propyl tin	(DProT)	N.D.	N.D.	N.D.	0.5
Butyl tin	(BuT)	N.D.	N.D.	N.D.	0.5
Dibutyl tin	(DBT)	N.D.	N.D.	N.D.	0.5
Tributyl tin	(TBT)	N.D.	N.D.	N.D.	0.5
n-Octyl tin	(MOT)	N.D.	N.D.	N.D.	0.5
Tetrabutyl tin	(TeBT)	N.D.	N.D.	N.D.	0.5
Di-n-octyl tin	(DOT)	N.D.	N.D.	N.D.	0.5
Diphenyl tin	(DPhT)	N.D.	N.D.	N.D.	0.5
Triphenyl tin	(TPhT)	N.D.	N.D.	N.D.	0.5

TEST REPORT

Mechanical & Hardgoods Lab

Report No : HY/2014/10158

Page : 3 of 4

Test Item		Result(mg/kg)			MDL (mg/kg)	Limit (**) (mg/kg)
		4	5	6		
Soluble Aluminium	(Al)	N.D.	N.D.	N.D.	50	5,625
Soluble Antimony	(Sb)	N.D.	N.D.	N.D.	1	45
Soluble Arsenic	(As)	N.D.	N.D.	N.D.	0.5	3.8
Soluble Barium	(Ba)	N.D.	N.D.	N.D.	50	1,500 (1,000**)
Soluble Boron	(B)	N.D.	N.D.	N.D.	50	1,200
Soluble Cadmium	(Cd)	N.D.	N.D.	N.D.	0.1	1.3
Soluble Cobalt	(Co)	N.D.	N.D.	N.D.	0.5	10.5
Soluble Copper	(Cu)	N.D.	N.D.	N.D.	50	622.5
Soluble Lead	(Pb)	N.D.	N.D.	N.D.	0.5	13.5
Soluble Manganese	(Mn)	N.D.	N.D.	N.D.	50	1,200
Soluble Mercury	(Hg)	N.D.	N.D.	N.D.	0.5	7.5
Soluble Nickel	(Ni)	N.D.	N.D.	N.D.	10	75
Soluble Selenium	(Se)	N.D.	N.D.	N.D.	5	37.5
Soluble Strontium	(Sr)	375	93	87	50	4,500
Soluble Tin	(Sn)	N.D.	N.D.	N.D.	0.36	15,000
Soluble Zinc	(Zn)	N.D.	N.D.	N.D.	50	3,750
Soluble Chromium (III)	(Cr (III))	N.D.	N.D.	N.D.	1	37.5
Soluble Chromium (VI)	(Cr (VI))	N.D.	N.D.	N.D.	0.018	0.02
Soluble Organic Tin [#]	--	N.D.	N.D.	N.D.	--	0.9

Remark: #

Test Item		Soluble Organic Tin Result(s)			MDL (mg/kg)
		4	5	6	
Methyl tin	(MeT)	N.D.	N.D.	N.D.	0.5
Di-n-propyl tin	(DProT)	N.D.	N.D.	N.D.	0.5
Butyl tin	(BuT)	N.D.	N.D.	N.D.	0.5
Dibutyl tin	(DBT)	N.D.	N.D.	N.D.	0.5
Tributyl tin	(TBT)	N.D.	N.D.	N.D.	0.5
n-Octyl tin	(MOT)	N.D.	N.D.	N.D.	0.5
Tetrabutyl tin	(TeBT)	N.D.	N.D.	N.D.	0.5
Di-n-octyl tin	(DOT)	N.D.	N.D.	N.D.	0.5
Diphenyl tin	(DPhT)	N.D.	N.D.	N.D.	0.5
Triphenyl tin	(TPhT)	N.D.	N.D.	N.D.	0.5

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

TEST REPORT

Mechanical & Hardgoods Lab

Report No : HY/2014/10158

Page : 4 of 4

Description:

1. Green chalk of sample.
2. Blue chalk of sample.
3. Yellow chalk of sample.
4. Red chalk of sample.
5. White chalk of sample.
6. Purple chalk of sample.

NOTE:

1. mg/kg = ppm
2. N.D. = Not Detected
3. MDL =Method Detection Limit
4. "--" =Not Conducted
5. " ** " = German national provision adopts the more stringent limits between 2013/492/EU and EN71-3:2013. The soluble Barium limit from 2013/492/EU is adopted as it is the most stringent one.



** End of Report **

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.