

## TEST REPORT

Report No : HTY22800057  
Page : 1 of 9  
Date : 2022/08/30

### Flomo Plastics Industrial Co., Ltd.

NO. 42, SEC.2 ZHONGSHAN ROAD , HU NEI DISTRICT, KAOHSIUNG, TAIWAN

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

Product Description: ECO ERASER  
Style/Item No: EW100  
Label Age Grading: Not stated  
Requested Age Grading: 3 +  
\*\*\*\*\*  
Age Group Assessed by SGS As: 3 years +  
Per Age Guideline:  
Age Group Applied in Testing: 3 years +  
Sample Receiving Date: 2022/08/22  
Testing Period: 2022/08/23 – 08/30

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


#### Test Requested:

Please refer to the result summary.

#### Methods and Results:

Please refer to next page(s).

Signed for and on behalf of  
SGS Taiwan Ltd.

  
Iris Huang  
Manager



# TEST REPORT

Report No : HTY22800057

Page : 2 of 9

## Result Summary:

<u>Item</u>	<u>Test Parameter</u>	<u>Conclusion</u>
1.	EN 71 - 1:2014 +A1:2018 – Mechanical and Physical Properties	<b>Pass</b> (See result 1)
2.	EN 71 - 2:2020 – Flammability	<b>Pass</b> (See result 2)
3.	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1: 2021– Migration of certain elements	<b>Pass</b> (See result 3)
4.	Cadmium (Cd) content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	<b>Pass</b> (See result 4)
5.	Lead (Pb) content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	<b>Pass</b> (See result 5)
6.	Phthalate content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	<b>Pass</b> (See result 6)
7.	AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs) Content	<b>Pass</b> (See result 7)

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## TEST REPORT

Report No : HTY22800057

Page : 3 of 9

### Test Results:

#### 1. EN71-1:2014+A1:2018 – Mechanical and Physical Properties

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
5	Toys intended for children under 36 months	
5.1	General requirements	<u>Pass</u>
6	Packaging	<u>Pass</u>
7	Warnings, markings and instructions for use	<u>Pass</u>
7.1	General	<u>N/A</u>
7.2	Toys not intended for children under 36months	
	(Remark: No small part was found before and after test. Therefore, small part warning should not be shown on the packaging.)	<u>See Remark</u>

N.B.: -Only applicable clauses were shown

# TEST REPORT

**LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS**

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	---
CE mark	Absent. See note 2	---
Importer's Name & Address	Absent. See note 3	---
Manufacturer's Name & Address	Absent. See note 3	---
Product ID	Absent. See note 4	---

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable.
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

## 2. EN 71 - 2:2020– Flammability

<u>Clause</u>	<u>Description</u>	<u>Result</u>
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4.1	General requirements	<u>Pass</u>
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# TEST REPORT

### 3. Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1: 2021 – Migration of certain elements

#### Category III: Scrapped-off toy material

Method: With reference to EN 71-3:2019 + A1: 2021. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation. Chromium (VI) was analyzed by LC-ICP-MS. Organic Tin was analyzed by GC-MS.

Test Items		Result(mg/kg)	RL	Permissible Limit
		1~2	(mg/kg)	(mg/kg)
Soluble Aluminum	(Al)	N.D.	50	28,130
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	23
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	(Cr)	N.D.	5	-
Soluble Chromium (III)	(Cr (III))	N.D.	5	460
Soluble Chromium (VI)	(Cr (VI))	N.D.	0.02	0.053
Soluble Organic Tin <sup>#</sup>	-	N.D.	-	12

Remark: #

Test Items		Soluble Organic Tin Result(s)	RL
		1~2	(mg/kg)
Methyl tin	(MeT)	N.D.	1.8
Dimethyl tin	(DMT)	N.D.	1.8
Di-n-propyl tin	(DProT)	N.D.	1.8
Butyl tin	(BuT)	N.D.	1.8
Dibutyl tin	(DBT)	N.D.	1.8
Tributyl tin	(TBT)	N.D.	1.8
n-Octyl tin	(MOT)	N.D.	1.8
Tetrabutyl tin	(TeBT)	N.D.	1.8
Di-n-octyl tin	(DOT)	N.D.	1.8
Diphenyl tin	(DPhT)	N.D.	1.8
Triphenyl tin	(TPhT)	N.D.	1.8

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## TEST REPORT

Report No : HTY22800057

Page : 6 of 9

### 4. Cadmium content

Method: With reference to BS EN 1122: 2001, Method B and performed by ICP-OES

<u>Test item</u>	<u>Unit</u>	<u>RL</u>	<u>1</u>	<u>Limit</u>
Cadmium (Cd)	mg/kg	2	N.D.	< 100

### 5. Lead content

Method: With reference to US EPA 3052 :1996. Analysis was performed by IC-OES

<u>Test item</u>	<u>Unit</u>	<u>RL</u>	<u>1</u>	<u>Limit</u>
Lead (Pb)	mg/kg	2	N.D.	< 500

### 6. Phthalate content

Method: With reference to EN 14372: 2004 method. Analysis was performed by GC-MS.

<u>Test Items</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>Results</u>	<u>RL</u>	<u>Limit</u>
			1		
<b><u>For all plasticized material</u></b>					
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	85-68-7	mg/kg	N.D.	30	
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	N.D.	30	
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	N.D.	30	
<b><u>For toys or childcare articles if it can be placed in the mouth</u></b>					
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	mg/kg	N.D.	100	1000
Di-n-octyl Phthalate (DNOP)	117-84-0	mg/kg	N.D.	30	
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	mg/kg	N.D.	100	

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# TEST REPORT

## 7. AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs) Content

Method: With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC-MS

<u>Test items</u>	<u>Unit</u>	<u>RL</u>	<u>1</u>
Anthracene (CAS No.: 120-12-7)	mg/kg	0.2	N.D.
Benzo[ <i>a</i> ]anthracene (CAS No.: 56-55-3)		0.2	N.D.
Benzo[ <i>a</i> ]pyrene (CAS No.: 50-32-8)		0.2	N.D.
Benzo[ <i>b</i> ]fluoranthene (CAS No.: 205-99-2)		0.2	N.D.
Benzo[ <i>ghi</i> ]perylene (CAS No.: 191-24-2)		0.2	N.D.
Benzo[ <i>k</i> ]fluoranthene (CAS No.: 207-08-9)		0.2	N.D.
Chrysene (CAS No.: 218-01-9)		0.2	N.D.
Dibenzo[ <i>a,h</i> ]anthracene (CAS No.: 53-70-3)		0.2	N.D.
Fluoranthene (CAS No.: 206-44-0)		0.2	N.D.
Indeno[1,2,3- <i>cd</i> ] pyrene (CAS No.: 193-39-5)		0.2	N.D.
Naphthalene (CAS No.: 91-20-3)		0.2	N.D.
Phenanthrene (CAS No.: 85-01-8)		0.2	N.D.
Pyrene (CAS No.: 129-00-0)		0.2	N.D.
Benzo[ <i>j</i> ]fluoranthene (CAS No.: 205-82-3)		0.2	N.D.
Benzo[ <i>e</i> ]pyrene (CAS No.: 192-97-2)		0.2	N.D.
<b>Sum of 4 PAHs<sup>+</sup></b> (Anthracene, Fluoranthene, Phenanthrene, Pyrene)	mg/kg	-	N.D.
<b>Sum of 15 PAHs<sup>+</sup> (Cat.1<sup>^</sup>)</b>	mg/kg	-	N.D.

### Remark:

- <sup>+</sup> = Only PAH substances > 0.2 mg/kg are taken into account while calculating the sum of PAHs.
- <sup>^</sup> = As per client information, the tested sample is toy's product which is under the directive of 2009/48/EC and materials in articles for use by children up to three years of age.

# TEST REPORT

## AfPS ( German commission for Product Safety ) : GS PAHs requirements

Parameter	Cat. 1	Cat. 2		Cat. 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use - in toys according to Directive 2009/48/EC or - for the use by children up <sup>a,b</sup> to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact <sup>c</sup> with skin during the intended or foreseeable use <sup>d</sup> .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo[ <i>a</i> ]pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[ <i>e</i> ]pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[ <i>a</i> ]anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[ <i>b</i> ]fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[ <i>j</i> ]fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[ <i>k</i> ]fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[ <i>a,h</i> ]anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[ <i>ghi</i> ]perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3- <i>cd</i> ]pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), Pyrene (PYR), Anthracene (ANT), Fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs acc. AfPS GS 2019:01 PAK	< 1	< 5	< 10	< 20	< 50

**Note:**

- a. A "child" is legally defined as a person before reaching the age of 14 years.
- b. Use by children includes both active and passive direct contact by children.
- c. Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation EC) No.1272/2013).
- d. According to the definition of the German Product Safety Act (ProdSG) (Chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

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## TEST REPORT

Report No : HTY22800057

Page : 9 of 9

Description:

1. White soft plastic of sample.
2. Multicolored printing paper of sample.

Note:

1. mg/kg = ppm; 0.1% = 1000ppm
2. N.D. = Not Detected = Less than RL
3. RL = Reporting Limit
4. “-“ = Not Regulated
5. The content of this report is invalid if it is not presented as the entire report.
6. The statement of conformity is based on the test results, but does not include the measurement uncertainty.
7. The chemical test was conducted at SGS Taiwan Ltd. Chemical Laboratory-Taipei.

Sample picture	
<b>HTY22800057</b> 	<b>HTY22800057</b> 
As received	Front view
<b>HTY22800057</b> 	<b>HTY22800057</b> 
Product information	

**\*\* End of Report \*\***

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