

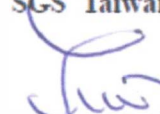
**The following merchandise was submitted & identified by the applicant as:**

<u>Sample description and function:</u>	Six colors of glitter marker pens
<u>Packaging/Type:</u>	Not provided
<u>Instructions for use/assembly</u>	Not provided
<u>Product identification name:</u>	GLITTER MARKER SET
<u>Style/Item No:</u>	DI-GT6/1
<u>Labeled Age Grading:</u>	Not stated
<u>Requested Age Grading:</u>	3 +
<u>Age Group Assessed As Per Age Guideline:</u>	3 years +
<u>Age Group Applied in Testing:</u>	3 years +
<u>Sample receiving Date:</u>	2019/07/08 & 07/12 & 07/22
<u>Testing Period:</u>	2019/07/09 – 07/22

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

<u>Test Requested</u>	<u>Result</u>
- EN 71- 1:2014+A1:2018 – Mechanical and Physical Properties (Excluding Clause 7.1 & 7.2) Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, 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	<u>Pass</u>  <u>See Result on page 2</u>
- EN 71 - 2:2011+A1:2014 – Flammability	<u>Pass</u>
- EN 71 - 3:2013+A3:2018 – Migration of certain elements	<u>Pass</u>

Signed for and on behalf of  
SGS Taiwan Ltd.

  
Iris Huang  
Manager



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### Test Results:

European Standard – Safety of Toys: EN 71 - 1:2014+A1:2018 – Mechanical and Physical Properties

Clause	Description	Result
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>See Remark</u>
	(Remark : The pen caps are small part(s) as received. Therefore, item should be warned in accordance with clause 7.2.)	
7	Warnings, markings and instructions for use	
7.1	General	<u>Excluded</u>
7.2	Toys not intended for children under 36months	<u>Excluded</u>
	(Remark: In order to comply with the requirements of this clause, the toy or its packaging must be marked in the form of “Warning. Not suitable for children under 36 months. Small parts. Choking Hazard.”)	<u>See Remark</u>

**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	---
Importer’s Name & Address	Absent	---
Manufacturer’s Name & Address	Absent	---
Product ID	Absent	---

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.

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European Standard - Safety of Toys : EN 71 - 2:2011+A1:2014 – Flammability

Clause	Description	Result
4	Requirements	
4.1	General requirements	<u>Pass</u>

N.B.: -Only applicable clauses were shown

European Standard - Safety of Toys : EN 71 - 3:2013+A3:2018 – Migration of certain elements

**Category II: Liquid or sticky toy material** Pass

Method: With reference to EN 71 - 3:2013+A3:2018. Analysis of general elements 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)	RL	Permissible Limit
		10~15	(mg/kg)	(mg/kg)
Soluble Aluminium	(Al)	N.D.	50	1,406
Soluble Antimony	(Sb)	N.D.	1	11.3
Soluble Arsenic	(As)	N.D.	0.5	0.9
Soluble Barium	(Ba)	N.D.	50	375
Soluble Boron	(B)	N.D.	50	300
Soluble Cadmium	(Cd)	N.D.	0.1	0.3
Soluble Cobalt	(Co)	N.D.	0.5	2.6
Soluble Copper	(Cu)	N.D.	50	156
Soluble Lead	(Pb)	N.D.	0.5	0.5
Soluble Manganese	(Mn)	N.D.	50	300
Soluble Mercury	(Hg)	N.D.	0.5	1.9
Soluble Nickel	(Ni)	N.D.	10	18.8
Soluble Selenium	(Se)	N.D.	5	9.4
Soluble Strontium	(Sr)	N.D.	50	1,125
Soluble Tin	(Sn)	N.D.	4.9	3,750
Soluble Zinc	(Zn)	N.D.	50	938
Soluble Chromium (III)	(Cr (III))	N.D.	5	9.4
Soluble Chromium (VI)	(Cr (VI))	N.D.	0.005	0.005
Soluble Organic Tin <sup>#</sup>	-	N.D.	-	0.2



Remark: #

Test Items		Soluble Organic Tin Result(s)	MDL (mg/kg)
		10~15	
Methyl tin	(MeT)	N.D.	0.14
Di-n-propyl tin	(DProT)	N.D.	0.14
Butyl tin	(BuT)	N.D.	0.14
Dibutyl tin	(DBT)	N.D.	0.14
Tributyl tin	(TBT)	N.D.	0.14
n-Octyl tin	(MOT)	N.D.	0.14
Tetrabutyl tin	(TeBT)	N.D.	0.14
Di-n-octyl tin	(DOT)	N.D.	0.14
Diphenyl tin	(DPhT)	N.D.	0.14
Triphenyl tin	(TPhT)	N.D.	0.14

### Category III: Scrapped-off toy material

Pass

Method: With reference to EN 71 - 3:2013+A3:2018. Analysis of general elements 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)	RL	Permissible Limit
		1~9	(mg/kg)	(mg/kg)
Soluble Aluminium	(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	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 (III)	(Cr (III))	N.D.	5	460
Soluble Chromium (VI)	(Cr (VI))	N.D.	0.18	0.2
Soluble Organic Tin <sup>#</sup>	-	N.D.	-	12

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Remark: #

Test Items		Soluble Organic Tin Result(s)	MDL
		1~9	(mg/kg)
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

Description:

1. Translucence plastic of sample. (pen cap)
2. Gray plastic with glitter of sample. (on pen cap)
3. Purple plastic with glitter of sample. (on pen cap)
4. Blue plastic with glitter of sample. (on pen cap)
5. Green plastic with glitter of sample. (on pen cap)
6. Yellow plastic with glitter of sample. (on pen cap)
7. Red plastic with glitter of sample. (on pen cap)
8. Translucent plastic of sample. (pen holder)
9. White fiber of sample.
10. Silver colored glossy liquid of sample.
11. Red glossy liquid of sample.
12. Purple glossy liquid of sample.
13. Blue glossy liquid of sample.
14. Green glossy liquid of sample.
15. Yellow glossy liquid of sample.

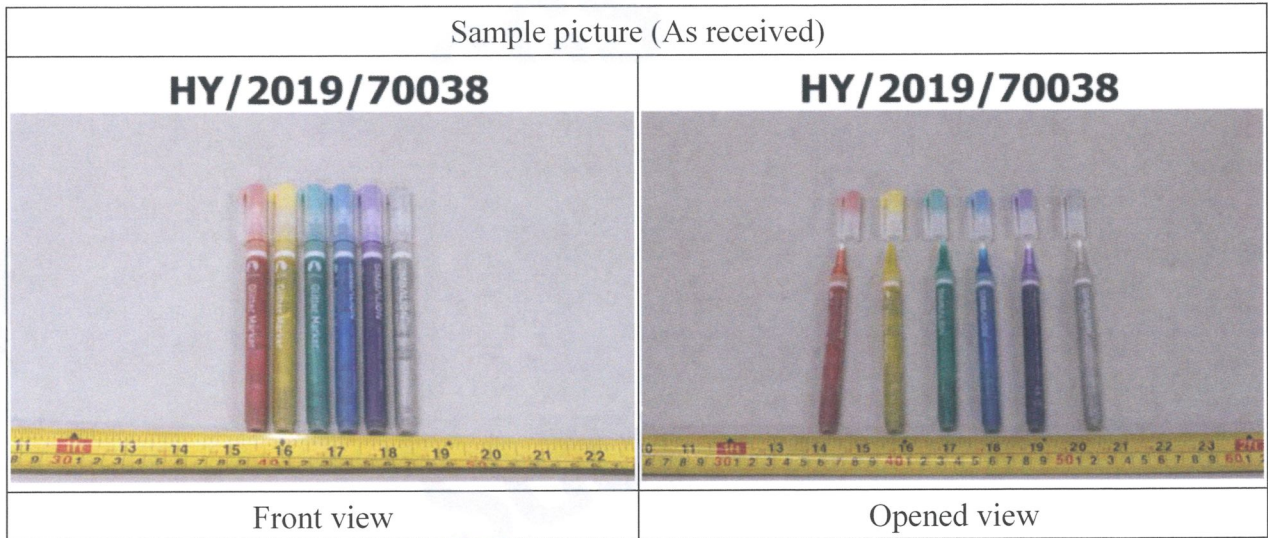
- Note:
1. mg/kg = ppm
  2. N.D. = Not Detected
  3. RL= Reporting Limit
  4. MDL =Method Detection Limit
  5. " - " = Not Regulated
  6. As received, the test portion of white coating (on penholder) on sample are less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard, EN 71 - 3:2013+A3:2018, Clause 7.1 – selection of test portions.
  7. The chemical analysis was conducted in SGS Taiwan Ltd. Chemical Laboratory-Taipei.

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## TEST REPORT

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\*\* End of Report \*\*