

TEST REPORT

Applicant: SANKI PIONEER LIMITED
BLOCK B 2F
KIN HING INDUSTRIAL BUILDING
17-23 SHEK KIN STREET
KWAI CHUNG
NT
Attn: SEIKO SO

Number: HKGH0304831901

Date: Sep 28, 2023

Sample and Information provided by customer :
Item Name : **Finger Paint**
Item No. : **Kids Mango**
Quantity : 3 Sets
Labelled Age Group : 3 years old or older (Translated from Korean)
Packaging Provided : Yes
Vendor : Dwave Corporation
Manufacturer : Dwave Corporation
Buyer : Sanki Pioneer Limited
Country of Origin : Korea

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Vice President



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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) EN 71-2:2020 - Flammability Test Exclude flammability test on liquid	Pass
(2) EN 71-3 : 2019 + A1 : 2021 - Migration of certain elements	Pass
(3) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 - Phthalates content	Pass

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc..>
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



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(1) Flammability Test

Test Standard : European Standard on Safety of Toys EN 71-2:2020

Clause	Requirement	Assessment
4.1	General requirements	P#1
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Remark(s):

#1 = Clause 4.1 - As requested by applicant, the flammability test on liquid was not assessed.

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(2) 19 Toxic Element Migration Test

Test Method : EN 71-3 : 2019 + A1 : 2021. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (II): Liquid or sticky toy material:

	Result (mg/kg)			Limit (mg/kg)
	(5)	(6)	(7)	
Soluble Aluminium (Al)	<100	<100	<100	560
Soluble Antimony (Sb)	<1.0	<1.0	<1.0	11.3
Soluble Arsenic (As)	<0.3	<0.3	<0.3	0.9
Soluble Barium (Ba)	<10	<10	<10	375
Soluble Boron (B)	<50	<50	<50	300
Soluble Cadmium (Cd)	<0.1	<0.1	<0.1	0.3
Soluble Chromium (III) (Cr III)	<1.0	<1.0	<1.0	9.4
Soluble Chromium (VI) (Cr VI)	<0.0025	<0.0025	<0.0025	0.005
Soluble Cobalt (Co)	<1.0	<1.0	<1.0	2.6
Soluble Copper (Cu)	<10	<10	<10	156
Soluble Lead (Pb)	<0.1	<0.1	<0.1	0.5
Soluble Manganese (Mn)	<10	<10	<10	300
Soluble Mercury (Hg)	<0.5	<0.5	<0.5	1.9
Soluble Nickel (Ni)	<1.0	<1.0	<1.0	18.8
Soluble Selenium (Se)	<1.0	<1.0	<1.0	9.4
Soluble Strontium (Sr)	<100	<100	<100	1125
Soluble Tin (Sn)	<10	<10	<10	3750
Soluble Organic tin ++	<0.1	<0.1	<0.1	0.2
Soluble Zinc (Zn)	<100	<100	<100	938



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	Result (mg/kg)			Limit (mg/kg)
	(8)	(9)	(10)	
Soluble Aluminium (Al)	<100	<100	<100	560
Soluble Antimony (Sb)	<1.0	<1.0	<1.0	11.3
Soluble Arsenic (As)	<0.3	<0.3	<0.3	0.9
Soluble Barium (Ba)	<10	<10	<10	375
Soluble Boron (B)	<50	<50	<50	300
Soluble Cadmium (Cd)	<0.1	<0.1	<0.1	0.3
Soluble Chromium (III) (Cr III)	<1.0	<1.0	<1.0	9.4
Soluble Chromium (VI) (Cr VI)	<0.0025	<0.0025	<0.0025	0.005
Soluble Cobalt (Co)	<1.0	<1.0	<1.0	2.6
Soluble Copper (Cu)	<10	<10	<10	156
Soluble Lead (Pb)	<0.1	<0.1	<0.1	0.5
Soluble Manganese (Mn)	<10	<10	<10	300
Soluble Mercury (Hg)	<0.5	<0.5	<0.5	1.9
Soluble Nickel (Ni)	<1.0	<1.0	<1.0	18.8
Soluble Selenium (Se)	<1.0	<1.0	<1.0	9.4
Soluble Strontium (Sr)	<100	<100	<100	1125
Soluble Tin (Sn)	<10	<10	<10	3750
Soluble Organic tin ++	<0.1	<0.1	<0.1	0.2
Soluble Zinc (Zn)	<100	<100	<100	938



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Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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	Result (mg/kg)	Limit
	(4)	(mg/kg)
Soluble Aluminium (Al)	<300	28130
Soluble Antimony (Sb)	<10	560
Soluble Arsenic (As)	<10	47
Soluble Barium (Ba)	<10	18750
Soluble Boron (B)	<50	15000
Soluble Cadmium (Cd)	<5	17
Soluble Chromium (III) (Cr III)	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	0.053
Soluble Cobalt (Co)	<10	130
Soluble Copper (Cu)	<10	7700
Soluble Lead (Pb)	<10	23
Soluble Manganese (Mn)	<10	15000
Soluble Mercury (Hg)	<10	94
Soluble Nickel (Ni)	<10	930
Soluble Selenium (Se)	<10	460
Soluble Strontium (Sr)	<100	56000
Soluble Tin (Sn)	<10	180000
Soluble Organic tin ++	<5.0	12
Soluble Zinc (Zn)	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI) .



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Tested Components:

- (1) Transparent plastic (spout).
- (2) White plastic (lid).
- (3) Translucent plastic (container).
- (4) White plastic label with inaccessible printings (label).
- (5) Green finger paint.
- (6) Blue finger paint.
- (7) Purple finger paint.
- (8) Yellow finger paint.
- (9) Orange finger paint.
- (10) Pink finger paint.

Date sample received : Aug 24, 2023

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(3) Phthalate Content Test

Test Method : ISO 8124-6 : 2018 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Seven Phthalates content:

Compound	Result (% w/w)			Limit (% w/w)
	(1/2)	(3/4)	(5/6/7)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1
Diisononyl phthalate (DINP)	<0.0100	<0.0100	<0.0100	--
Di-n-octyl phthalate (DnOP)	<0.0100	<0.0100	<0.0100	--
Diisodecyl phthalate (DIDP)	<0.0100	<0.0100	<0.0100	--
Sum of DINP, DnOP & DIDP	<0.0100	<0.0100	<0.0100	0.1

Compound	Result (%, w/w)	Limit (%, w/w)
	(8/9/10)	
Dibutyl phthalate (DBP)	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	0.1
Diisononyl phthalate (DINP)	<0.0100	--
Di-n-octyl phthalate (DnOP)	<0.0100	--
Diisodecyl phthalate (DIDP)	<0.0100	--
Sum of DINP, DnOP & DIDP	<0.0100	0.1



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The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 taking into account the (EU) regulation 2018/2005 modifying entry 51 for which the DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination with the first three phthalates which already exist in the entry 51, in a concentration equal to or greater than 0,1 % by weight of the plasticised material.

Tested Components:

- (1) Transparent plastic (spout).
- (2) White plastic (lid).
- (3) Translucent plastic (container).
- (4) White plastic label with inaccessible printings (label).
- (5) Green finger paint.
- (6) Blue finger paint.
- (7) Purple finger paint.
- (8) Yellow finger paint.
- (9) Orange finger paint.
- (10) Pink finger paint.

Date sample received : Aug 24, 2023

Test Period : Aug 24, 2023 to Aug 29, 2023

End of report

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