

Report No.: 244346170i 001

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Client: HAPPY ARTS&CRAFTS (NINGBO) CO.,LTD

Contact Information: HAPE INTERNATIONAL (NINGBO) LTD.
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO,
CHINA

Test item(s): Toy

Identification/ Please refer to detail list

Model No(s):

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2021-10-25

Testing Period: 2021-10-25 to 2021-11-04

Place of testing: Chemical laboratory Shanghai

Test Specification:

Test result:

1. EN 71-12:2016 N-Nitrosamines and N-Nitrosatable Substances

PASS

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



2021-11-05

Date


Gary Zhu / Assistant Manager

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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ITEM NO.	ITME DESCRIPTION EN	ITME DESCRIPTION CN	AGE
E0108,E0108A	Multi-stage Sensory Gift Set	感统发育五件套 (幼童)	10M+
E0106,E0106A	Baby-to-Toddler Sensory Gift Set	感统发育三件套 (婴幼)	10M+



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Material List:

Item: Please refer to detail list

Material No.	Material	Color	Location	Remark
M029	Plastic	White	Silicone feet, E0106&E0108	
M030	Plastic	Pink	Silicone feet, E0106&E0108	
M032	Plastic + Textile	White	Elastic string(with rubber core)	Refer to 244330003/M023



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1. EN 71-12 : 2016 N-Nitrosamines and N-Nitrosatable Substances

Test Method: EN 71-12:2016, LC-MS/MS analysis

Test Result :
For elastomers :

Test No.			T001		T001	
Material No.			M029		M029	
Test Parameter	CAS No.	Unit	Migratable N-Nitrosamines		Migratable N-Nitrosatable Substances	
			RL	Test result	RL	Test result
NDELA	1116-54-7	mg/kg	0.01	< RL	0.02	< RL
NDMA	62-75-9	mg/kg	0.01	< RL	0.02	< RL
NDEA	55-18-5	mg/kg	0.01	< RL	0.02	0.29
NDPA	621-64-7	mg/kg	0.01	< RL	0.02	< RL
NDiPA	601-77-4	mg/kg	0.01	< RL	0.02	< RL
NDBA	924-16-3	mg/kg	0.01	< RL	0.02	< RL
NDiBA	997-95-5	mg/kg	0.01	< RL	0.02	0.02
NDiNA	1207995-62-7	mg/kg	0.01	< RL	0.02	< RL
NMOR	59-89-2	mg/kg	0.01	< RL	0.02	< RL
NPIP	100-75-4	mg/kg	0.01	< RL	0.02	< RL
NDBzA	5336-53-8	mg/kg	0.01	< RL	0.02	< RL
NEPhA	612-64-6	mg/kg	0.01	< RL	0.02	< RL
NMPhA	614-00-6	mg/kg	0.01	< RL	0.02	< RL
Total	NA	mg/kg	NA	<RL	NA	0.31
Category	--	--	II			



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Test No.			T002		T002	
Material No.			M030		M030	
Test Parameter	CAS No.	Unit	Migratable N-Nitrosamines		Migratable N-Nitrosatable Substances	
			RL	Test result	RL	Test result
NMPhA	614-00-6	mg/kg	0.01	< RL	0.02	< RL
NDELA	1116-54-7	mg/kg	0.01	< RL	0.02	< RL
NDMA	62-75-9	mg/kg	0.01	< RL	0.02	< RL
NDEA	55-18-5	mg/kg	0.01	< RL	0.02	0.66
NDPA	621-64-7	mg/kg	0.01	< RL	0.02	< RL
NDiPA	601-77-4	mg/kg	0.01	< RL	0.02	< RL
NDBA	924-16-3	mg/kg	0.01	< RL	0.02	< RL
NDiBA	997-95-5	mg/kg	0.01	< RL	0.02	< RL
NDiNA	1207995-62-7	mg/kg	0.01	< RL	0.02	< RL
NMOR	59-89-2	mg/kg	0.01	< RL	0.02	< RL
NPIP	100-75-4	mg/kg	0.01	< RL	0.02	< RL
NDBzA	5336-53-8	mg/kg	0.01	< RL	0.02	< RL
NEPhA	612-64-6	mg/kg	0.01	< RL	0.02	< RL
Total	NA	mg/kg	NA	<RL	NA	0.66
Category	--	--	II			



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Test No.			T003		T003	
Material No.			M032		M032	
Test Parameter	CAS No.	Unit	Migratable N-Nitrosamines		Migratable N-Nitrosatable Substances	
			RL	Test result	RL	Test result
NDELA	1116-54-7	mg/kg	0.01	< RL	0.02	< RL
NDMA	62-75-9	mg/kg	0.01	< RL	0.02	< RL
NDEA	55-18-5	mg/kg	0.01	< RL	0.02	0.07
NDPA	621-64-7	mg/kg	0.01	< RL	0.02	< RL
NDiPA	601-77-4	mg/kg	0.01	< RL	0.02	< RL
NDBA	924-16-3	mg/kg	0.01	< RL	0.02	< RL
NDiBA	997-95-5	mg/kg	0.01	< RL	0.02	0.43
NDiNA	1207995-62-7	mg/kg	0.01	< RL	0.02	< RL
NMOR	59-89-2	mg/kg	0.01	< RL	0.02	< RL
NPIP	100-75-4	mg/kg	0.01	< RL	0.02	< RL
NDBzA	5336-53-8	mg/kg	0.01	< RL	0.02	< RL
NEPhA	612-64-6	mg/kg	0.01	< RL	0.02	< RL
NMPhA	614-00-6	mg/kg	0.01	< RL	0.02	< RL
Total	NA	mg/kg	NA	<RL	NA	0.50
Category	--	--	II			

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram
 NA = Not Applicable



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Remarks:

List of Migratable N-Nitrosamines and Migratable N-Nitrosatable Substances.

Parameter	Abbreviation
N-nitrosodiethanolamine	NDELA
N-nitrosodimethylamine	NDMA
N-nitrosodiethylamine	NDEA
N-nitrosodipropylamine	NDPA
N-nitrosodiisopropylamine	NDiPA
N-nitrosodibutylamine	NDBA
N-nitrosodiisobutylamine	NDiBA
N-nitrosodiisononylamine	NDiNA
N-nitrosomorpholine	NMOR
N-nitrosopiperidine	NPIP
N-nitrosodibenzylamine	NDBzA
N-nitrosoethylphenylamine	NEPhA
N-nitrosomethylphenylamine	NMPhA

*1 Requirement according to EN71-12:2016 are summarized as below:

Applicable scope	Maximum Permissible Limit (mg/kg)	
	Migratable N-nitrosamines	Migratable N-nitrosatable amines
Finger paints	<0.02	<1
Elastomers		
I. Toys intended for use by children under 36 months and intended or likely to be placed into the mouth	<0.01	<0.1
II. Toys intended for use by children under 36 months not cover by Category I	<0.05	<1
III. Toys intended for use by children of 36 months and over and intended to be placed into the mouth	<0.05	<1
IV. Balloons	<0.05	<1

*3 Single components with an amount of less than the detection limit were not considered by the calculation of the sum.



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Sample Photos



E0108,E0108A



E0106,E0106A

- END -



